

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050820\
 Data File : VD065722.D
 Acq On : 08 May 2020 13:50
 Operator : VA/SY
 Sample : L2182-03 4PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Quant Time: May 09 04:24:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050620S.M
 Quant Title : SW846 8260
 QLast Update : Sat May 09 04:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	367774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	547363	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	485254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	240588	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	171743	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
35) Dibromofluoromethane	7.92	113	176403	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
50) Toluene-d8	10.34	98	675938	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	12.64	95	230521	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	12015	4.165	ug/l	87
3) Chloromethane	2.21	50	16455	4.523	ug/l	97
4) Vinyl Chloride	2.34	62	17020	4.617	ug/l	95
5) Bromomethane	2.77	94	12500	5.373	ug/l	94
6) Chloroethane	2.92	64	10850	4.582	ug/l	91
7) Trichlorofluoromethane	3.27	101	23473	3.992	ug/l	90
8) Diethyl Ether	3.71	74	6540	3.550	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.10	101	13435	3.764	ug/l #	87
10) Methyl Iodide	4.31	142	12873	3.677	ug/l	96
11) Tert butyl alcohol	5.20	59	9994m	30.446	ug/l	
12) 1,1-Dichloroethene	4.07	96	15123	4.311	ug/l	89
13) Acrolein	3.93	56	5305	17.526	ug/l #	67
14) Allyl chloride	4.71	41	24540	3.509	ug/l	93
15) Acrylonitrile	5.43	53	14498	16.740	ug/l	96
16) Acetone	4.17	43	15296	19.448	ug/l	98
17) Carbon Disulfide	4.41	76	43333	3.756	ug/l	99
18) Methyl Acetate	4.72	43	8912	4.557	ug/l #	75
19) Methyl tert-butyl Ether	5.48	73	31728	3.730	ug/l #	89
20) Methylene Chloride	4.96	84	22304	5.629	ug/l	91
21) trans-1,2-Dichloroethene	5.47	96	16326	4.065	ug/l	91
22) Diisopropyl ether	6.37	45	45497	3.498	ug/l	97
23) Vinyl Acetate	6.31	43	126238	16.072	ug/l	98
24) 1,1-Dichloroethane	6.27	63	26920	3.779	ug/l	94
25) 2-Butanone	7.22	43	20347	17.440	ug/l	94
26) 2,2-Dichloropropane	7.21	77	24253	3.781	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	17010	3.904	ug/l	92
28) Bromochloromethane	7.55	49	10546	3.549	ug/l #	88
29) Tetrahydrofuran	7.57	42	13445	17.880	ug/l	93
30) Chloroform	7.71	83	26830	3.914	ug/l	99
31) Cyclohexane	7.98	56	31928	4.331	ug/l #	71
32) 1,1,1-Trichloroethane	7.90	97	25352	3.989	ug/l	95
36) 1,1-Dichloropropene	8.12	75	21695	3.991	ug/l	95
37) Ethyl Acetate	7.30	43	8414	3.215	ug/l #	92
38) Carbon Tetrachloride	8.10	117	23378	4.338	ug/l	92

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 Quant Title : SW846 8260
 QLast Update : Sat May 09 04:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	28477	4.173	ug/l	92
40) Benzene	8.36	78	59407	4.002	ug/l	95
41) Methacrylonitrile	7.53	41	7149m	4.735	ug/l	
42) 1,2-Dichloroethane	8.43	62	16564	3.877	ug/l	98
43) Isopropyl Acetate	8.46	43	19104	3.650	ug/l	99
44) Trichloroethene	9.11	130	17441	4.263	ug/l	95
45) 1,2-Dichloropropane	9.40	63	14648	3.815	ug/l	97
46) Dibromomethane	9.48	93	7053	3.662	ug/l	88
47) Bromodichloromethane	9.67	83	20736	4.026	ug/l	99
48) Methyl methacrylate	9.46	41	8667	3.307	ug/l	90
49) 1,4-Dioxane	9.47	88	1766	74.810	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	42953	17.027	ug/l	97
52) Toluene	10.41	92	37703	4.016	ug/l	97
53) t-1,3-Dichloropropene	10.63	75	19622	3.762	ug/l	98
54) cis-1,3-Dichloropropene	10.10	75	23406	3.809	ug/l	95
55) 1,1,2-Trichloroethane	10.81	97	10467	4.032	ug/l	94
56) Ethyl methacrylate	10.66	69	14376	3.835	ug/l	92
57) 1,3-Dichloropropane	10.95	76	18152	3.889	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	31526	18.319	ug/l	100
59) 2-Hexanone	10.99	43	29598	17.059	ug/l	97
60) Dibromochloromethane	11.15	129	13500	3.871	ug/l	98
61) 1,2-Dibromoethane	11.26	107	10615	4.064	ug/l	99
64) Tetrachloroethene	10.88	164	15467	4.479	ug/l	89
65) Chlorobenzene	11.67	112	40926	4.186	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.75	131	14234	3.905	ug/l	95
67) Ethyl Benzene	11.75	91	74342	4.076	ug/l	98
68) m/p-Xylenes	11.86	106	56528	8.314	ug/l	94
69) o-Xylene	12.18	106	25806	4.067	ug/l	94
70) Styrene	12.20	104	44941	4.120	ug/l	97
71) Bromoform	12.37	173	8225	4.010	ug/l #	95
73) Isopropylbenzene	12.48	105	72447	3.974	ug/l	100
74) N-amyl acetate	12.30	43	16668	3.203	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.74	83	11724	3.835	ug/l	93
76) 1,2,3-Trichloropropane	12.79	75	5854m	2.881	ug/l	
77) Bromobenzene	12.77	156	17696	4.233	ug/l	90
78) n-propylbenzene	12.83	91	82087	3.824	ug/l	97
79) 2-Chlorotoluene	12.91	91	45128	3.721	ug/l	97
80) 1,3,5-Trimethylbenzene	12.97	105	56657	3.786	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.54	75	3927	3.421	ug/l	94
82) 4-Chlorotoluene	13.01	91	48034	3.785	ug/l	98
83) tert-Butylbenzene	13.23	119	49817	3.911	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	56309	3.777	ug/l	97
85) sec-Butylbenzene	13.41	105	69349	3.881	ug/l	100
86) p-Isopropyltoluene	13.53	119	63315	3.888	ug/l	98
87) 1,3-Dichlorobenzene	13.53	146	31888	4.059	ug/l	97
88) 1,4-Dichlorobenzene	13.60	146	30973	3.996	ug/l	92
89) n-Butylbenzene	13.85	91	60177	3.814	ug/l	100
90) Hexachloroethane	14.12	117	12408	3.826	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	27389	4.040	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1761	3.427	ug/l	83

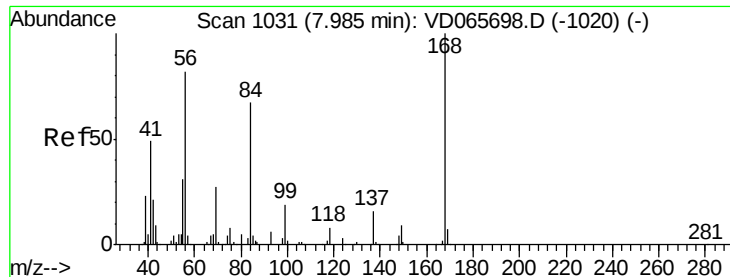
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	21336	4.195	ug/l	98
94) Hexachlorobutadiene	15.28	225	13070	4.434	ug/l	95
95) Naphthalene	15.41	128	34868	3.900	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	16795	3.882	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

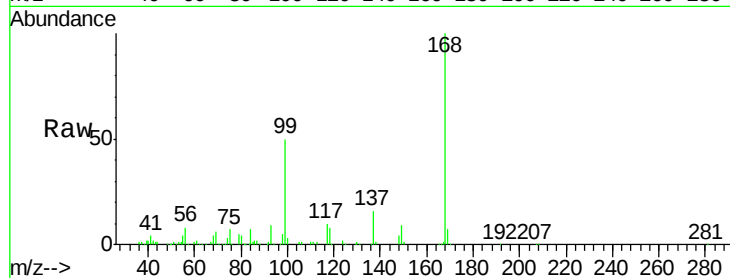
MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 367774

Ion Ratio Lower Upper

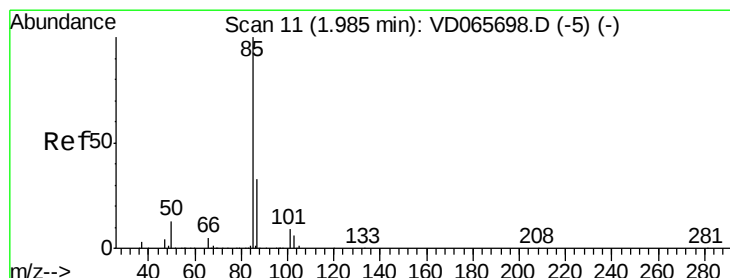
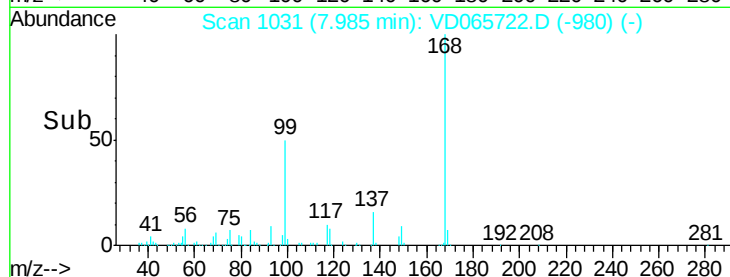
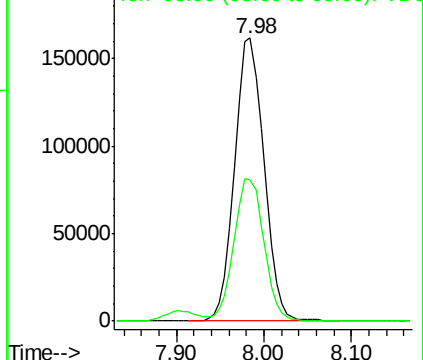
168 100

99 50.1 44.2 66.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.165 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD065722.D

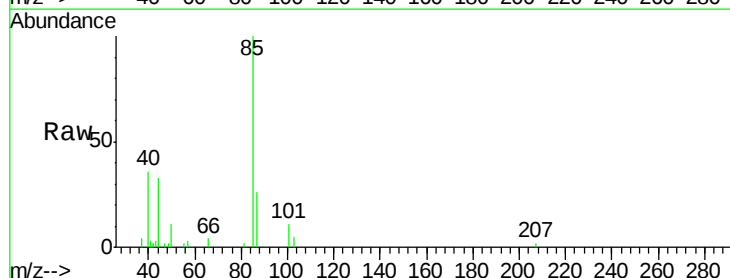
Acq: 08 May 2020 13:50

Tgt Ion: 85 Resp: 12015

Ion Ratio Lower Upper

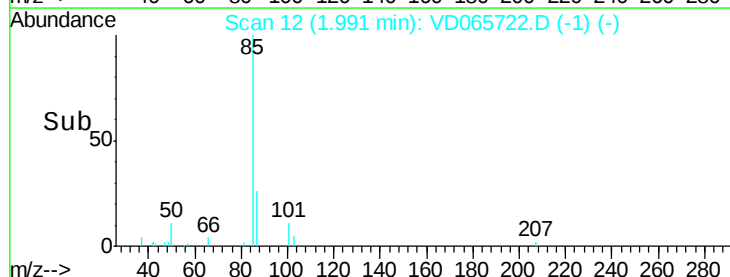
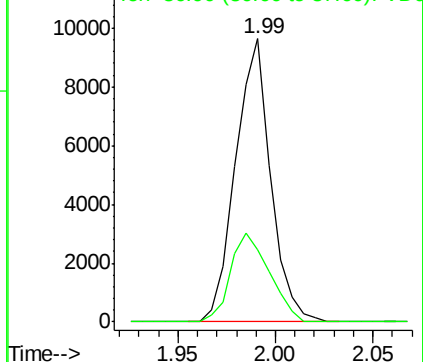
85 100

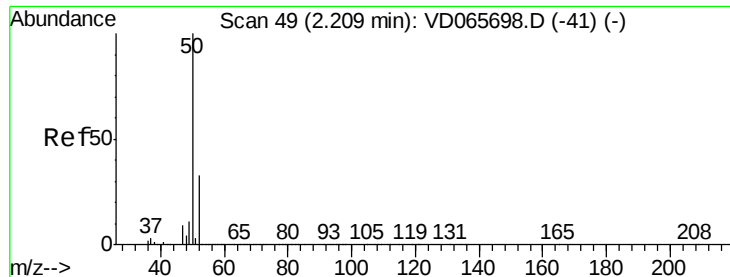
87 25.7 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.523 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

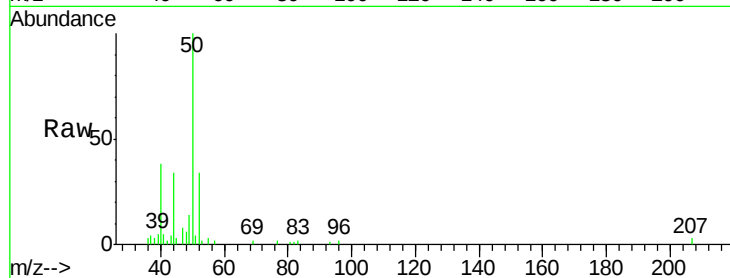
MDL-SOIL-03-QT2-2020DL

Tot Ion: 50 Resp: 16455

Ion Ratio Lower Upper

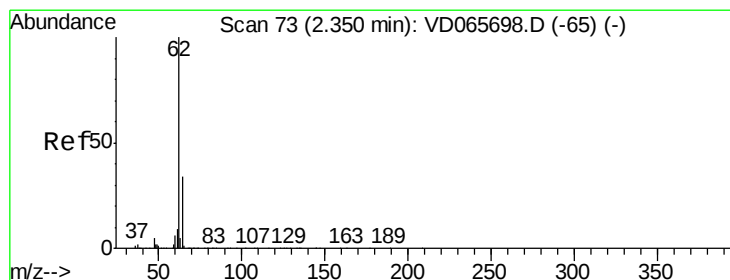
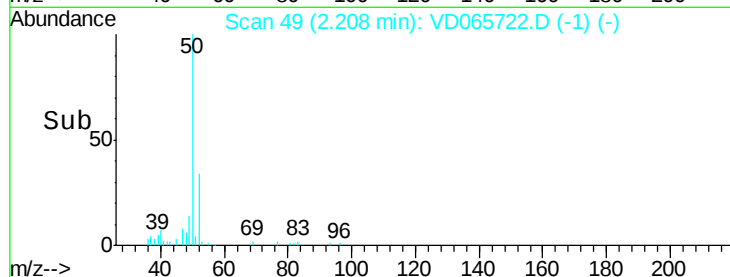
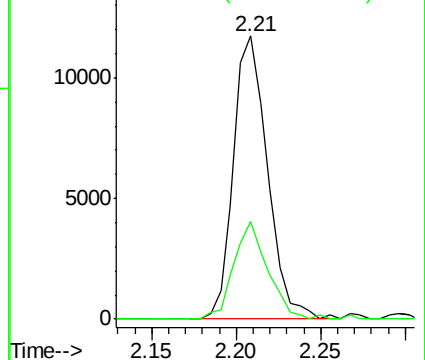
50 100

52 34.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 4.617 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD065722.D

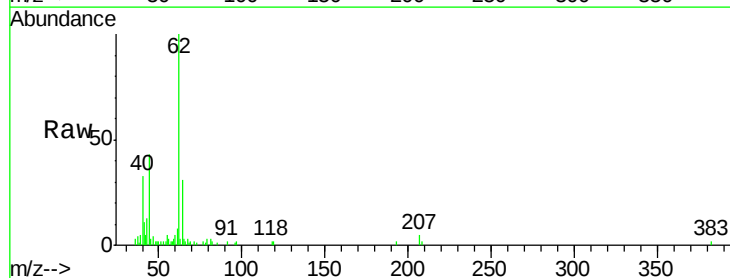
Acq: 08 May 2020 13:50

Tgt Ion: 62 Resp: 17020

Ion Ratio Lower Upper

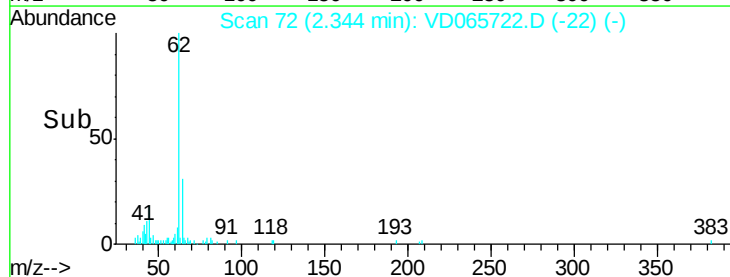
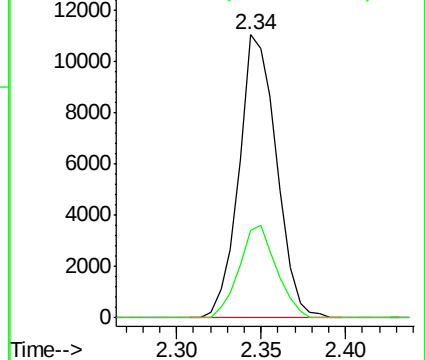
62 100

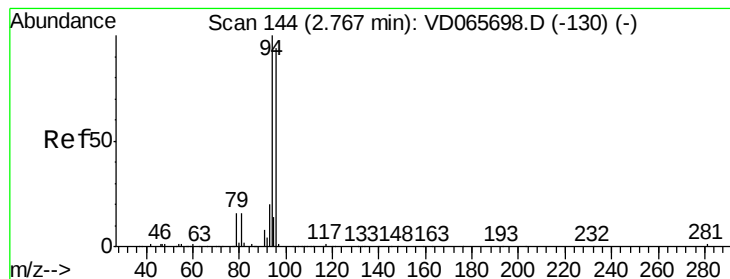
64 31.0 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 5.373 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

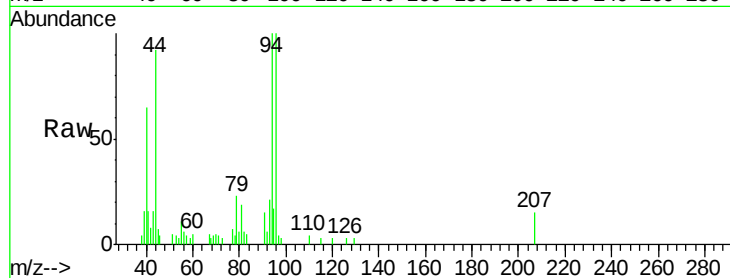
MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 12500

Ion Ratio Lower Upper

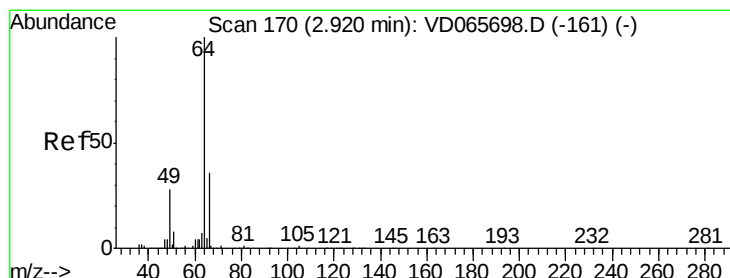
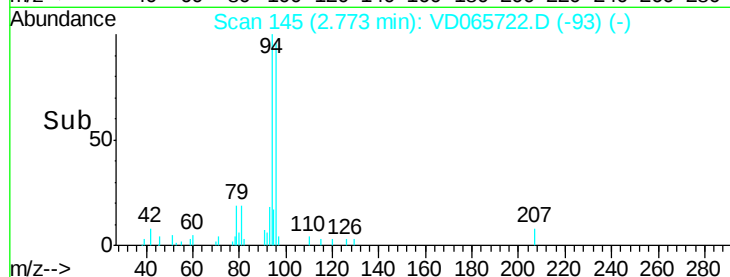
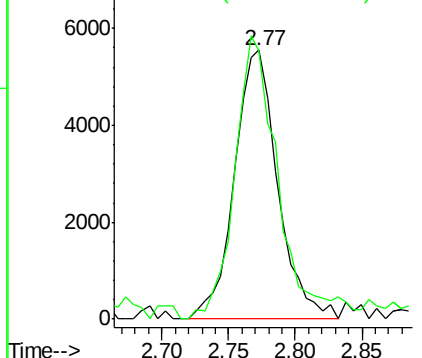
94 100

96 99.8 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.582 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD065722.D

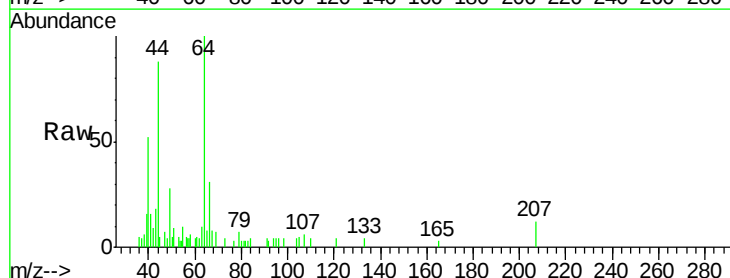
Acq: 08 May 2020 13:50

Tgt Ion: 64 Resp: 10850

Ion Ratio Lower Upper

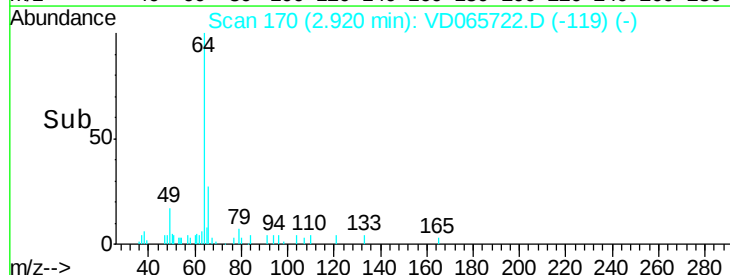
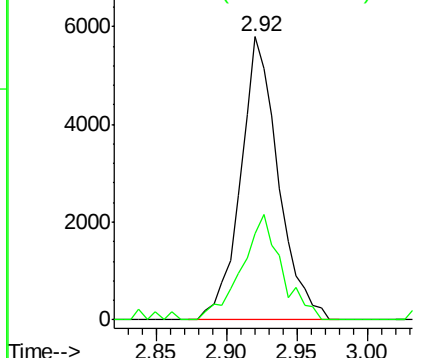
64 100

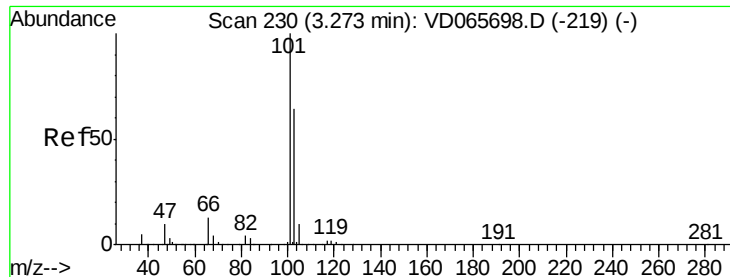
66 30.5 28.5 42.7



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



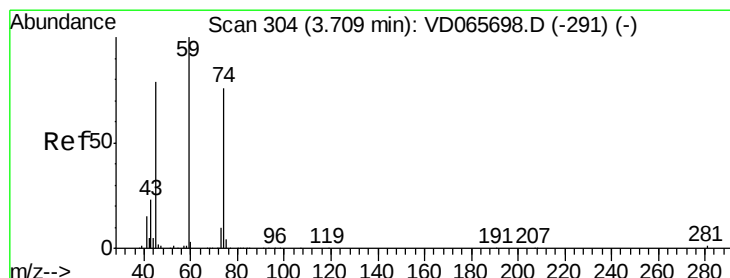
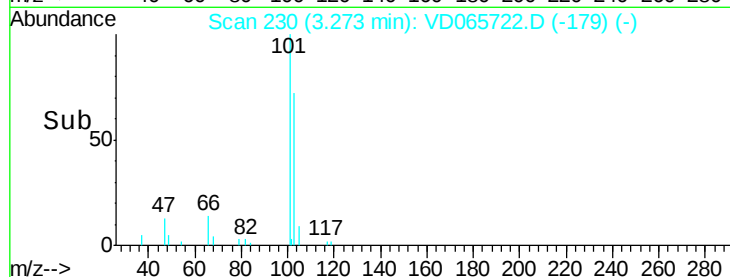
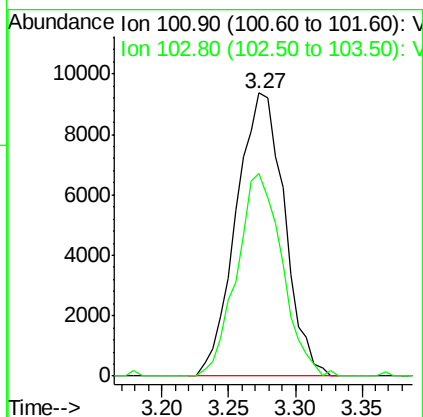
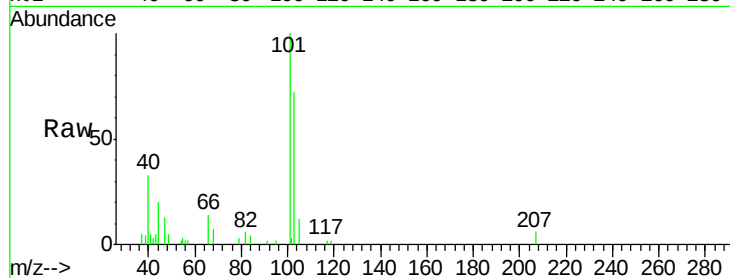


#7

Trichlorofluoromethane
 Concen: 3.992 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

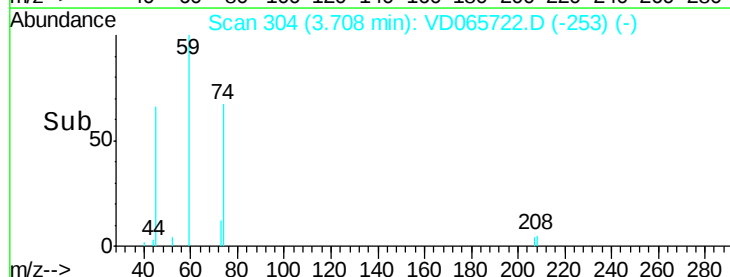
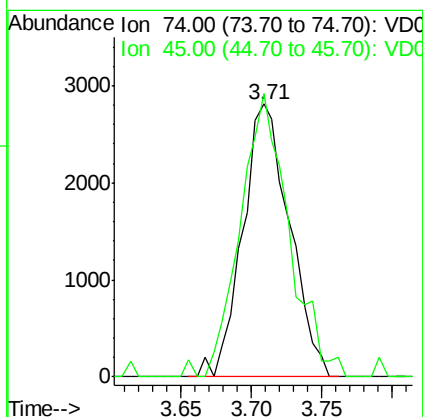
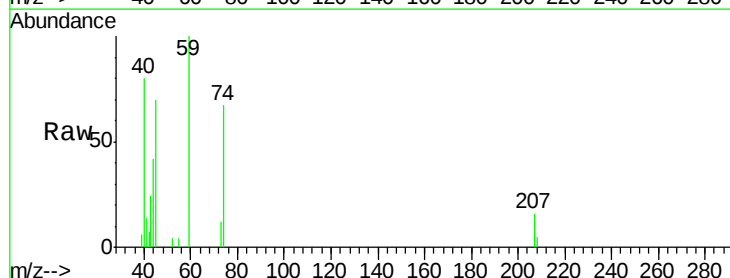
Tot Ion:101 Resp: 23473
 Ion Ratio Lower Upper
 101 100
 103 71.6 51.1 76.7

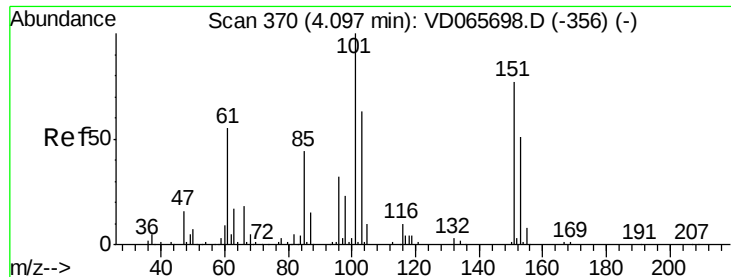


#8

Diethyl Ether
 Concen: 3.550 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 74 Resp: 6540
 Ion Ratio Lower Upper
 74 100
 45 107.3 55.0 165.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.764 ug/l

RT: 4.10 min Scan# 370

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

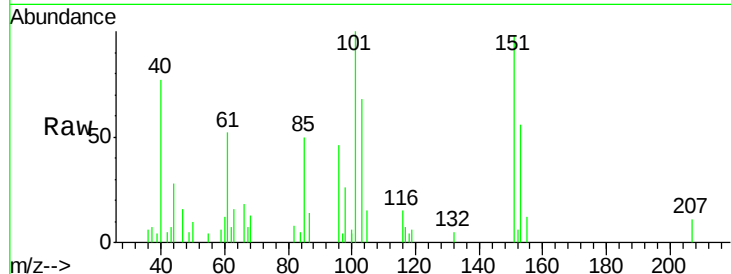
Tot Ion:101 Resp: 13435

Ion Ratio Lower Upper

101 100

85 52.6 34.4 51.6#

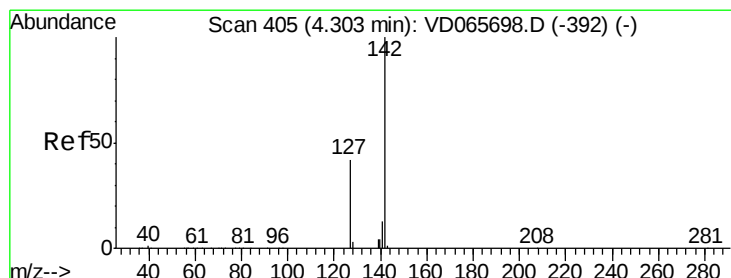
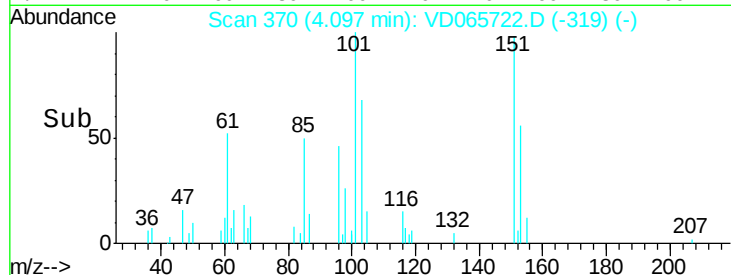
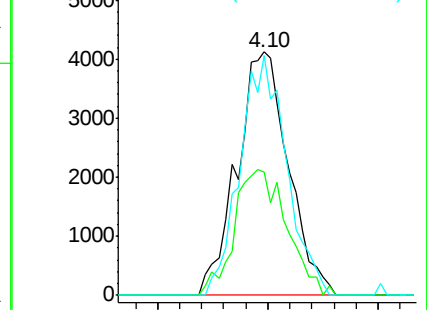
151 89.3 63.0 94.4



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: 3.677 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

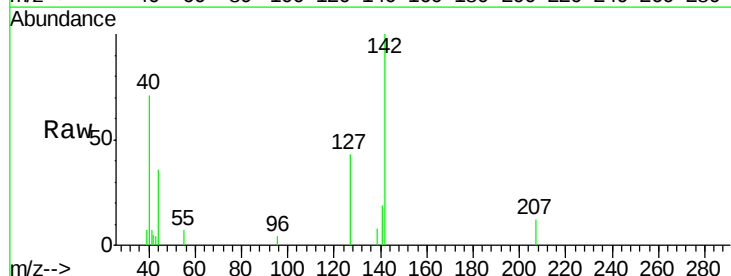
Tgt Ion:142 Resp: 12873

Ion Ratio Lower Upper

142 100

127 40.2 34.5 51.7

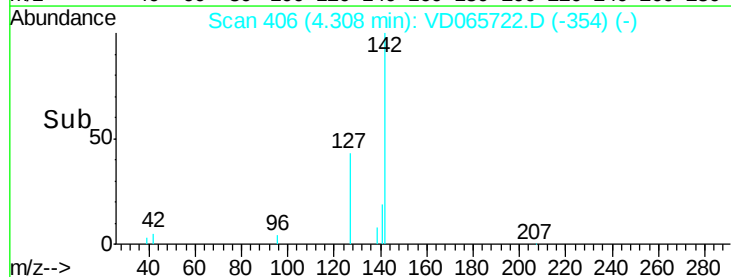
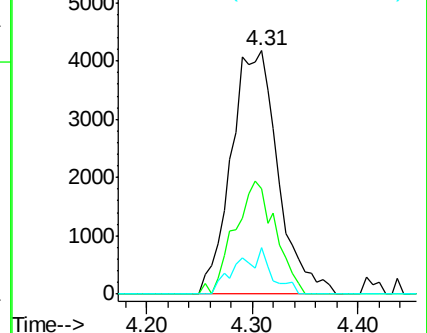
141 13.9 11.6 17.4

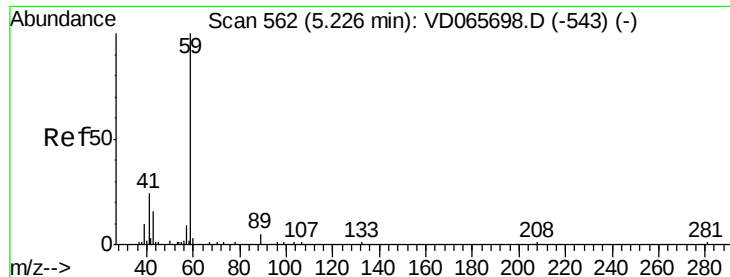


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



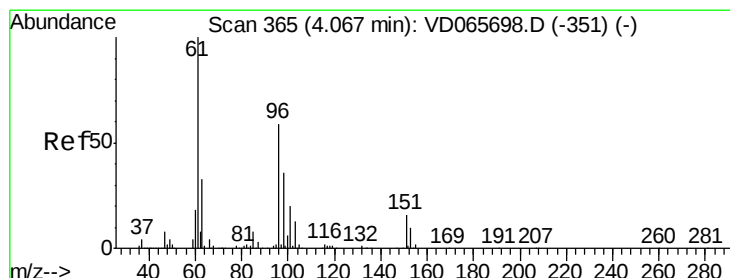
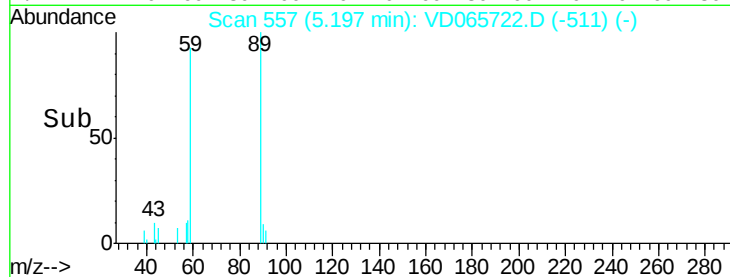
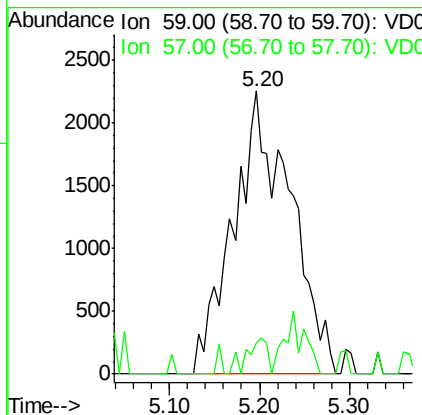
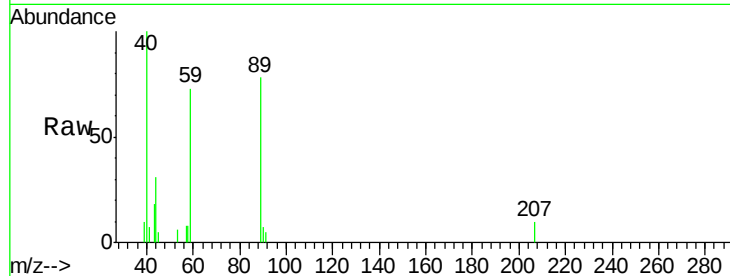


#11

Tert butyl alcohol
 Concen: 30.446 ug/l m
 RT: 5.20 min Scan# 557
 Delta R.T. -0.03 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

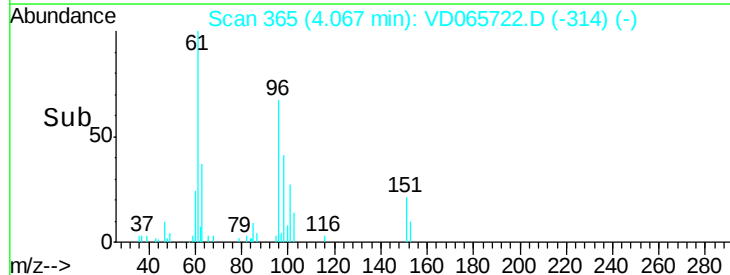
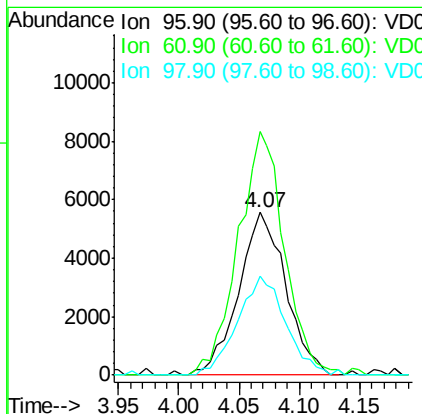
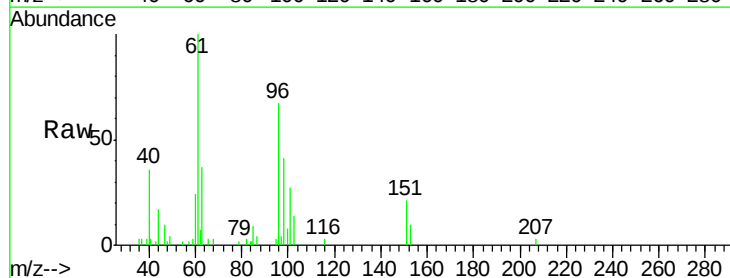
Tot Ion: 59 Resp: 9994
 Ion Ratio Lower Upper
 59 100
 57 4.7 8.7 13.1#

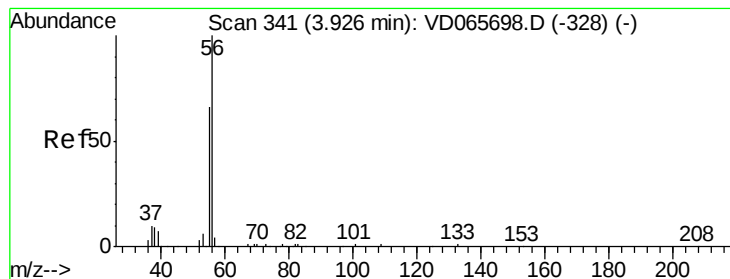


#12

1,1-Dichloroethene
 Concen: 4.311 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 96 Resp: 15123
 Ion Ratio Lower Upper
 96 100
 61 149.4 136.0 204.0
 98 60.9 49.7 74.5





#13

Acrolein

Concen: 17.526 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

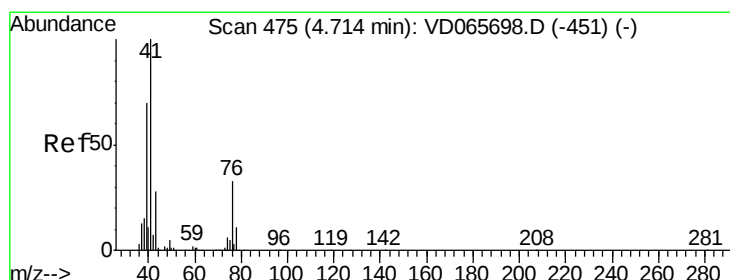
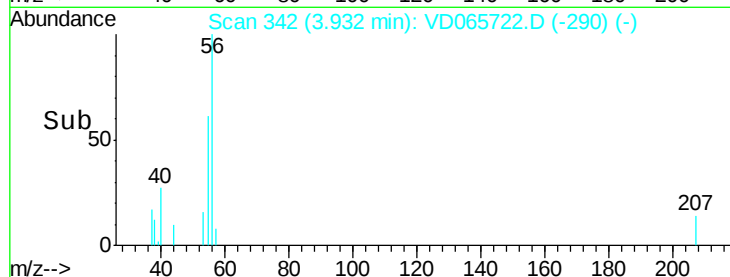
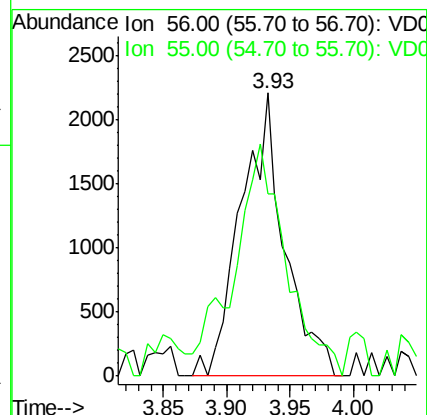
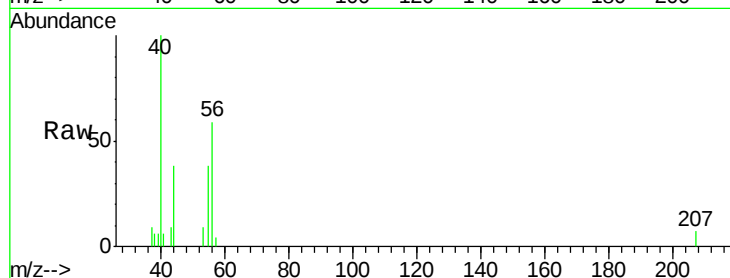
MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 5305

Ion Ratio Lower Upper

56 100

55 97.9 56.7 85.1#



#14

Allyl chloride

Concen: 3.509 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

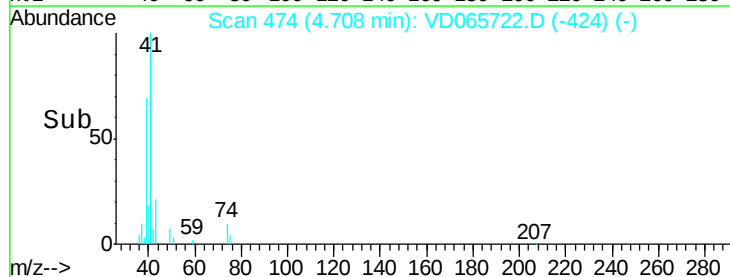
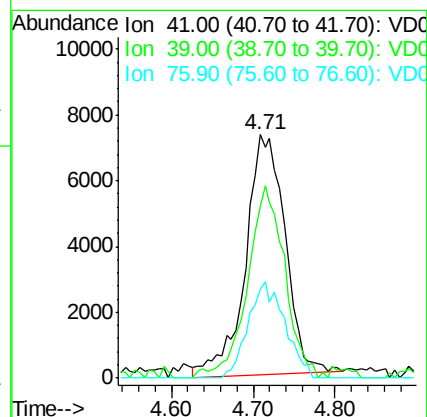
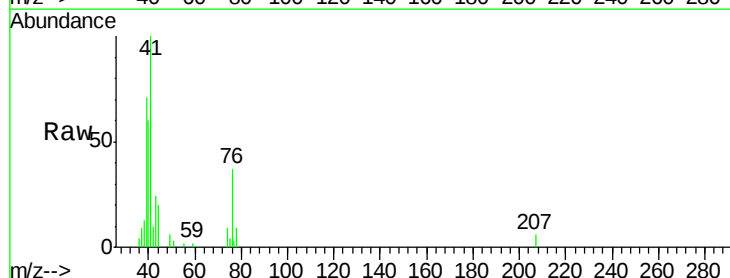
Tgt Ion: 41 Resp: 24540

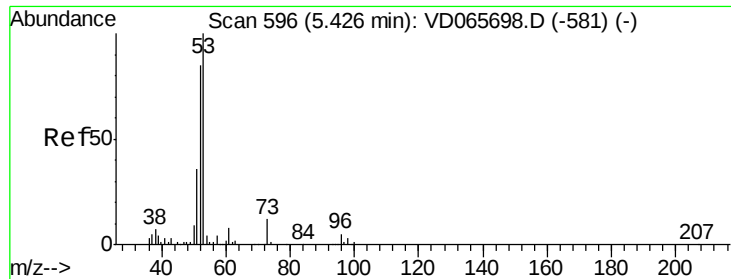
Ion Ratio Lower Upper

41 100

39 74.7 55.6 83.4

76 37.1 25.6 38.4





#15

Acrylonitrile

Concen: 16.740 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

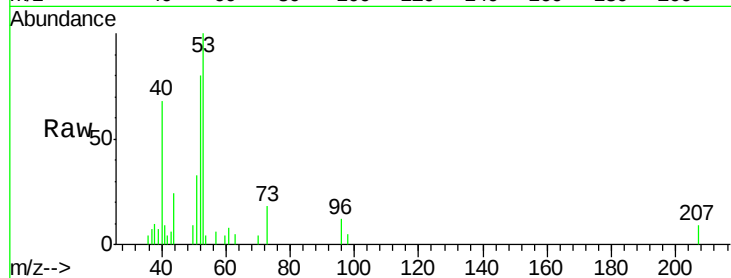
Tot Ion: 53 Resp: 14498

Ion Ratio Lower Upper

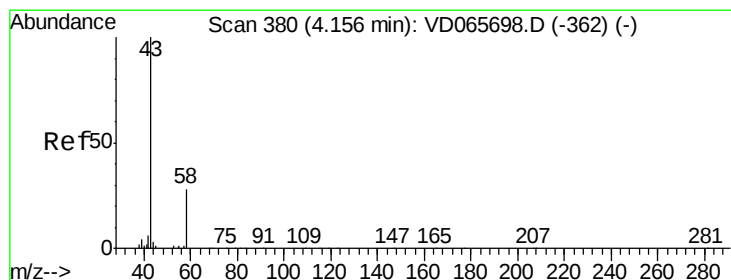
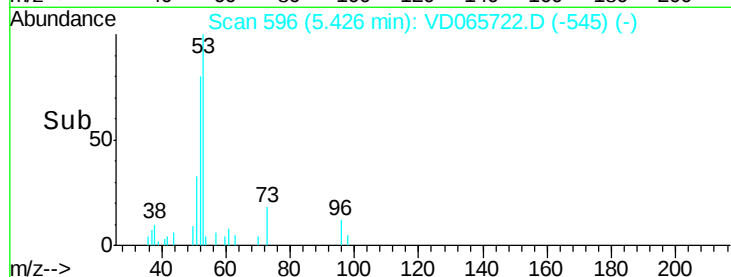
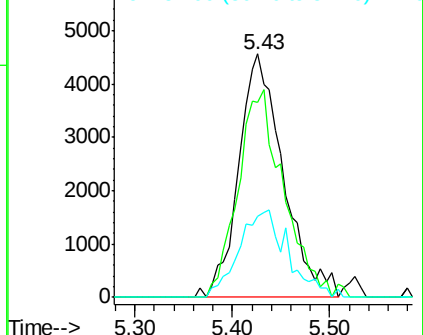
53 100

52 86.9 66.2 99.2

51 39.3 29.9 44.9



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: 19.448 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065722.D

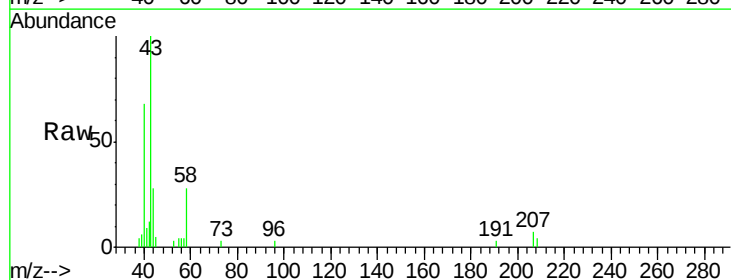
Acq: 08 May 2020 13:50

Tgt Ion: 43 Resp: 15296

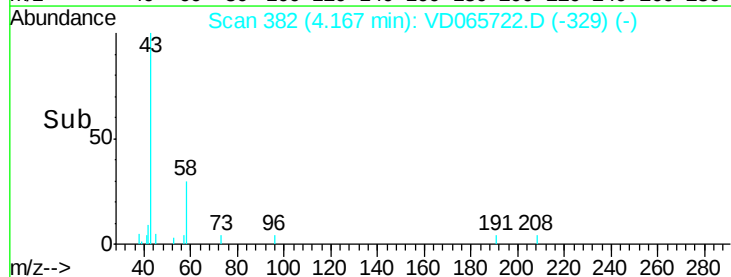
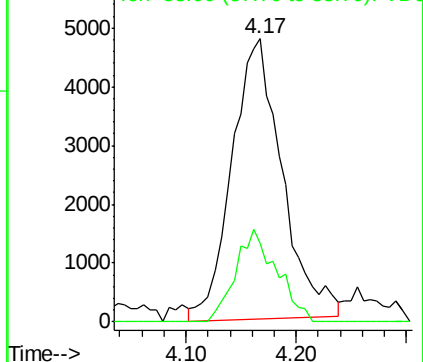
Ion Ratio Lower Upper

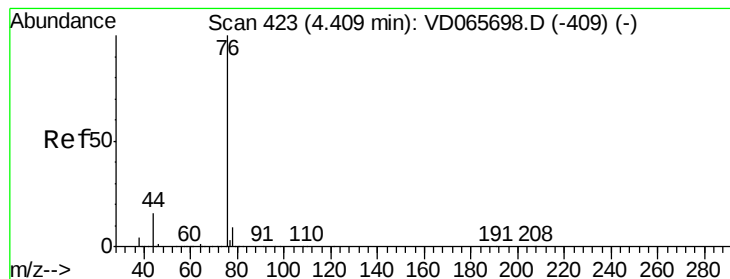
43 100

58 29.0 22.5 33.7



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





#17

Carbon Disulfide

Concen: 3.756 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

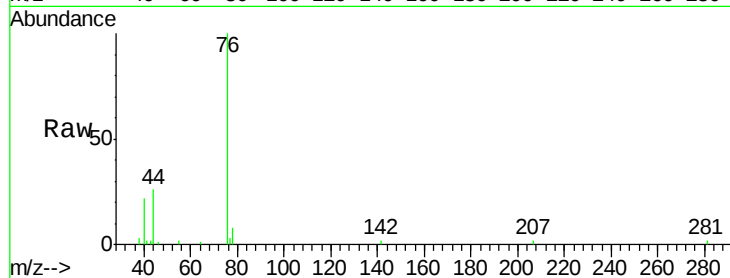
MDL-SOIL-03-QT2-2020DL

Tot Ion: 76 Resp: 43333

Ion Ratio Lower Upper

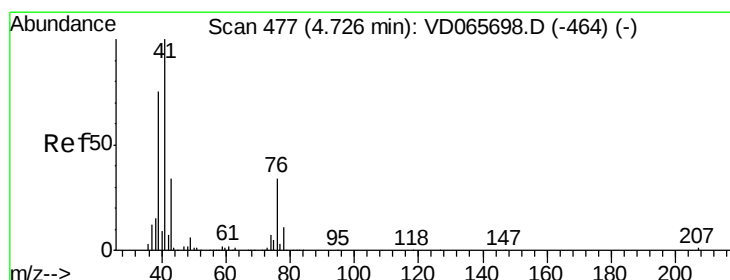
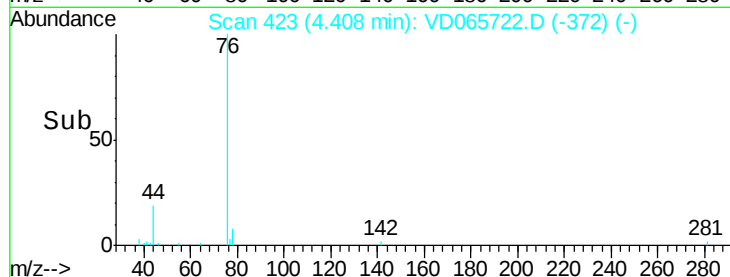
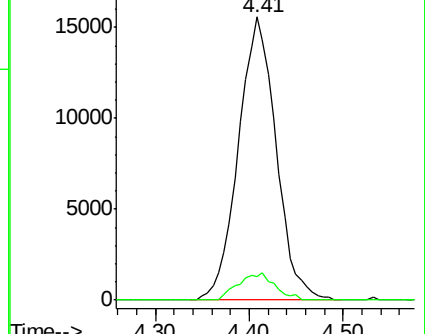
76 100

78 8.1 6.8 10.2



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 4.557 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065722.D

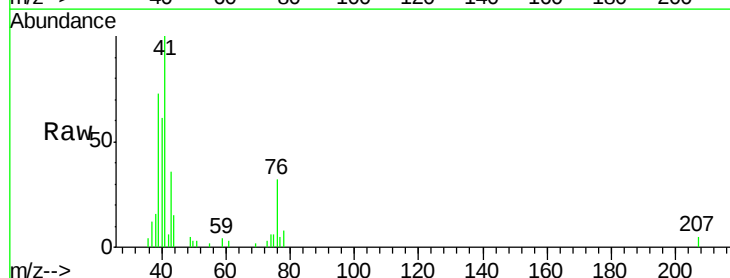
Acq: 08 May 2020 13:50

Tgt Ion: 43 Resp: 8912

Ion Ratio Lower Upper

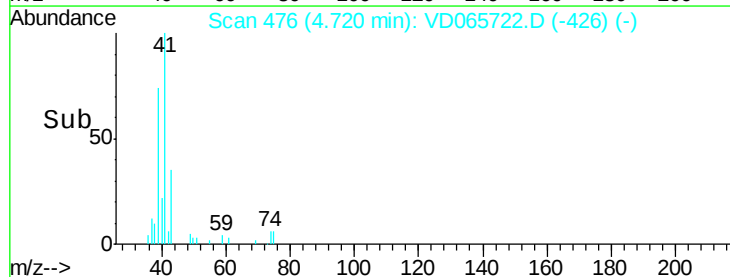
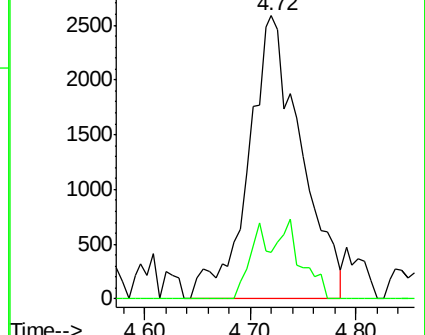
43 100

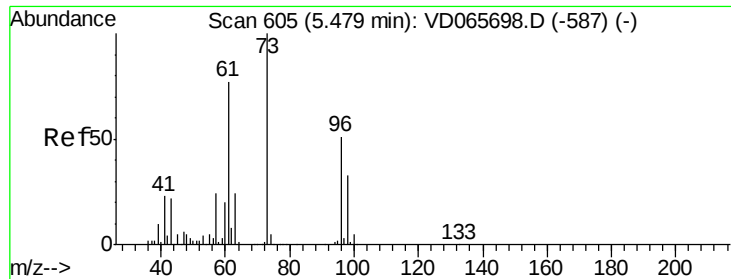
74 9.8 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



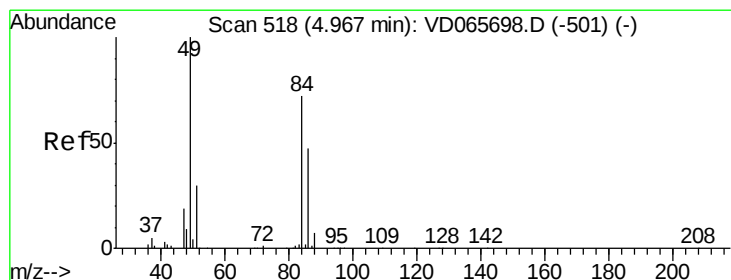
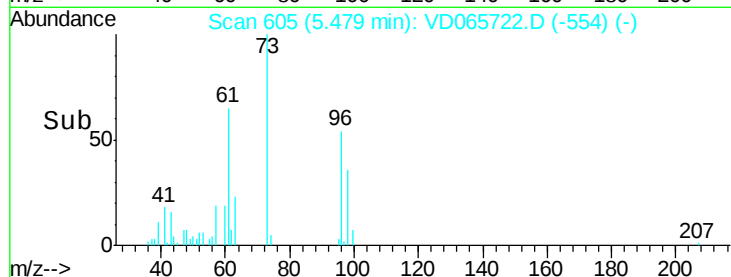
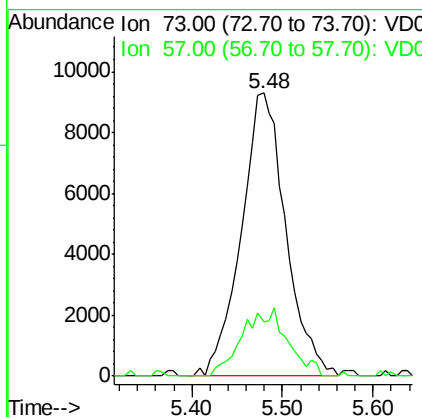
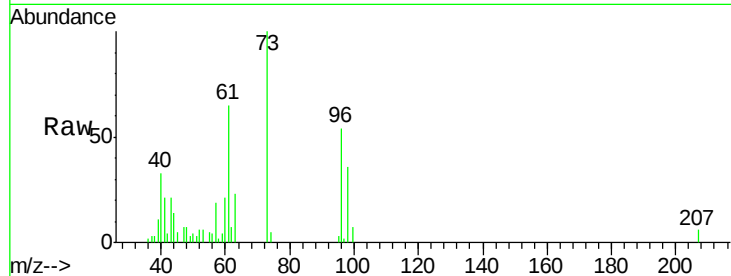


#19

Methvl tert-butvl Ether
 Concen: 3.730 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

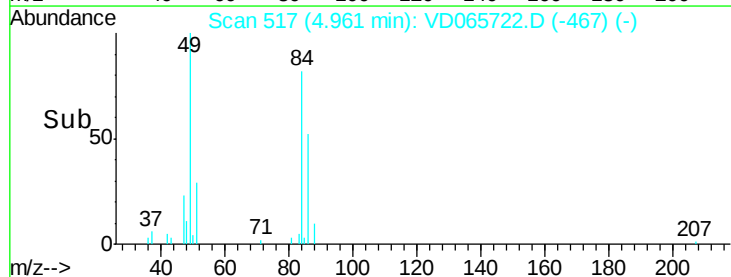
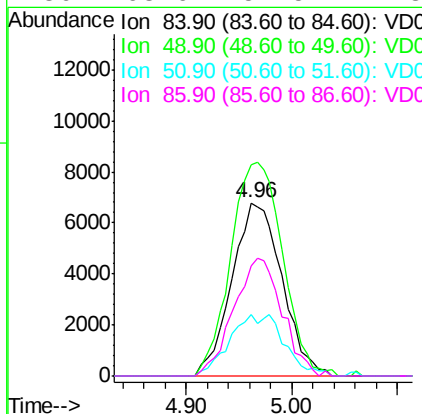
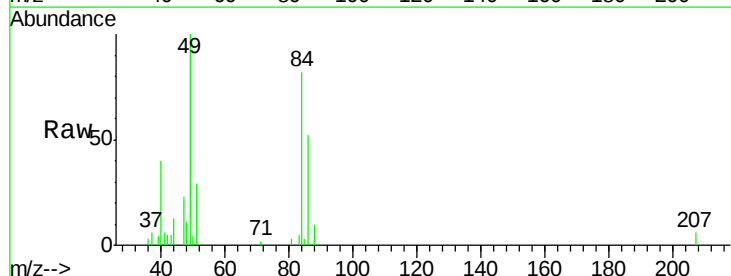
Tot Ion: 73 Resp: 31728
 Ion Ratio Lower Upper
 73 100
 57 19.0 19.4 29.0#

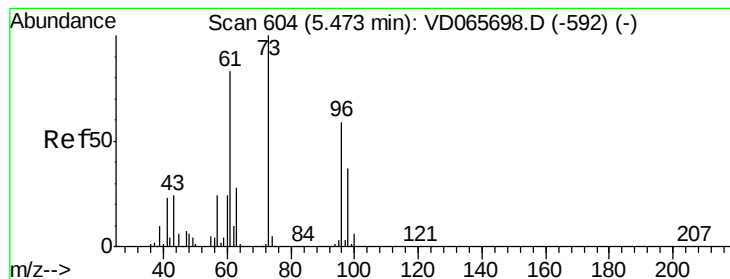


#20

Methylene Chloride
 Concen: 5.629 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 84 Resp: 22304
 Ion Ratio Lower Upper
 84 100
 49 122.1 110.4 165.6
 51 35.5 33.4 50.2
 86 63.6 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 4.065 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

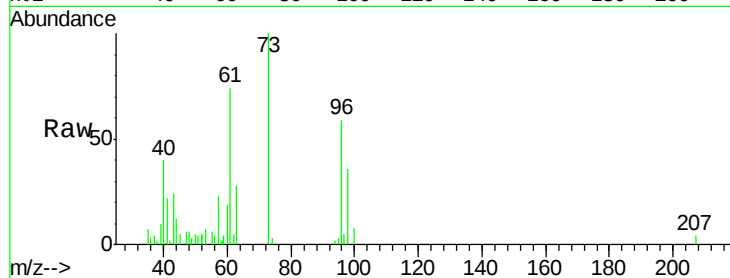
Tot Ion: 96 Resp: 16326

Ion Ratio Lower Upper

96 100

61 125.0 113.0 169.4

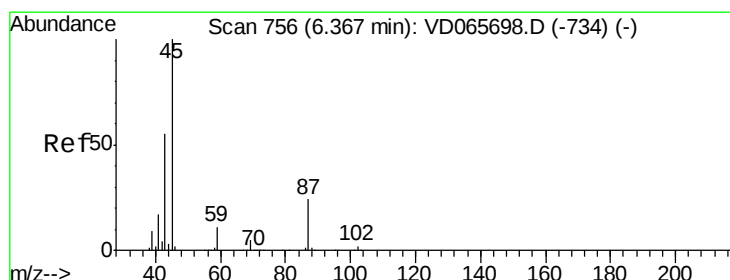
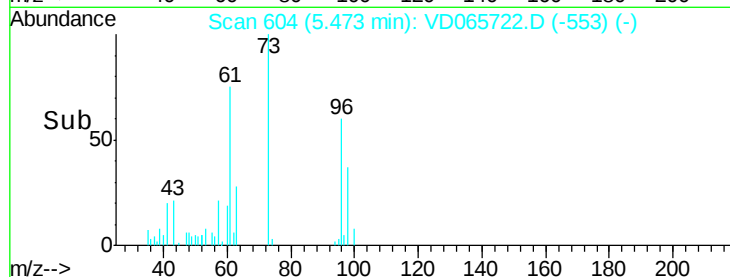
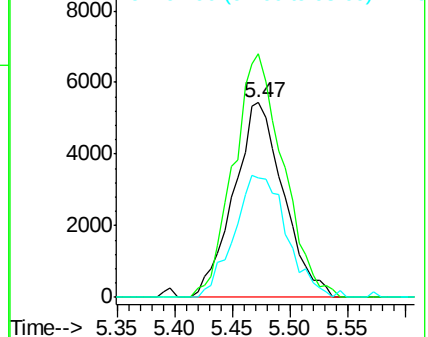
98 61.4 49.5 74.3



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: 3.498 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Tgt Ion: 45 Resp: 45497

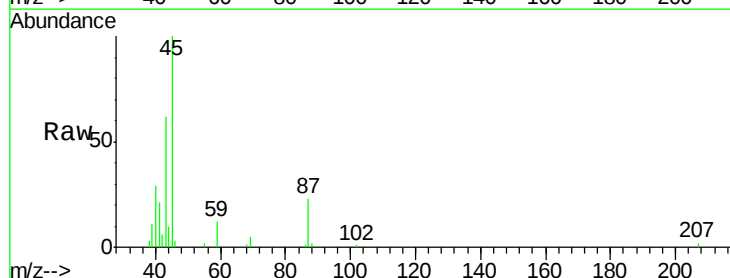
Ion Ratio Lower Upper

45 100

43 58.1 44.2 66.4

87 23.2 19.0 28.4

59 12.0 8.6 13.0

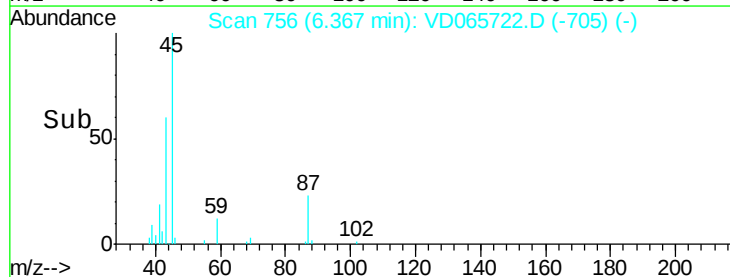
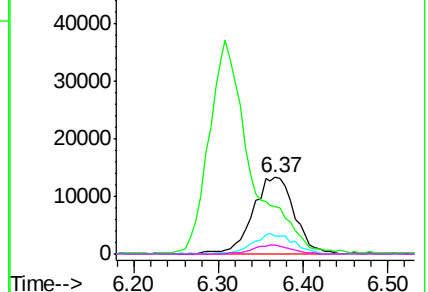


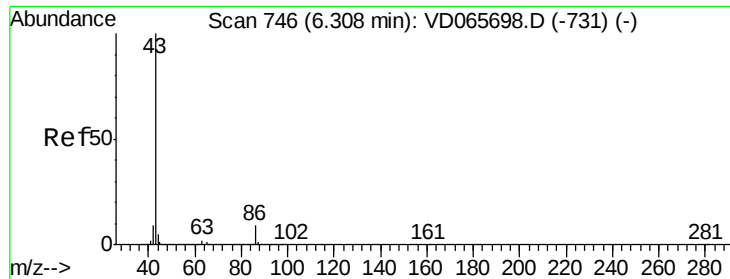
Abundance Ion 45.00 (44.70 to 45.70): VDC

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: 16.072 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

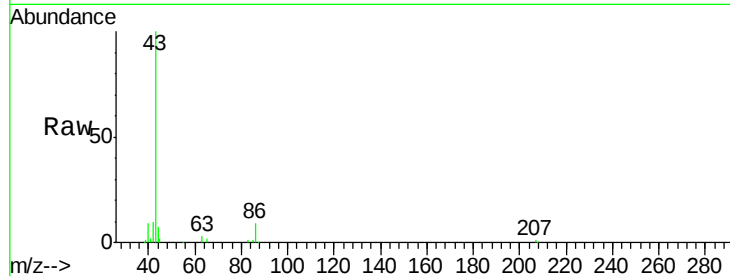
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 126238

Ion Ratio Lower Upper

43 100

86 8.6 7.4 11.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

40000

30000

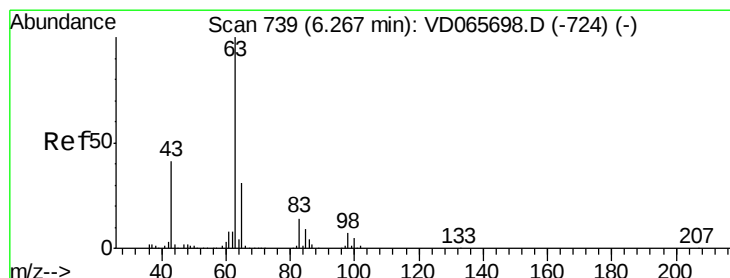
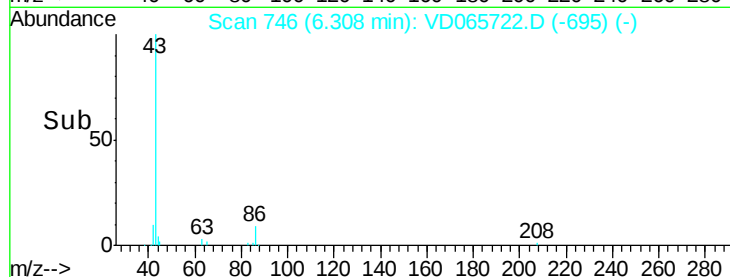
20000

10000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 3.779 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

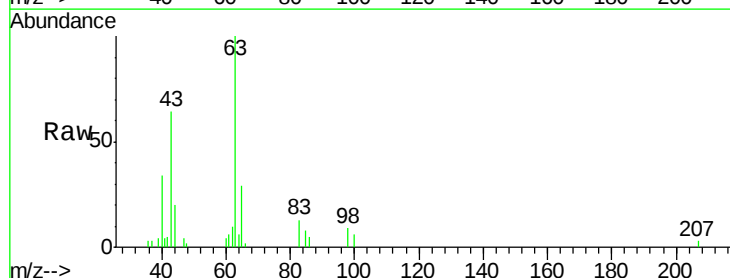
Tgt Ion: 63 Resp: 26920

Ion Ratio Lower Upper

63 100

98 9.4 3.4 10.2

100 5.8 2.3 6.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

12000

10000

8000

6000

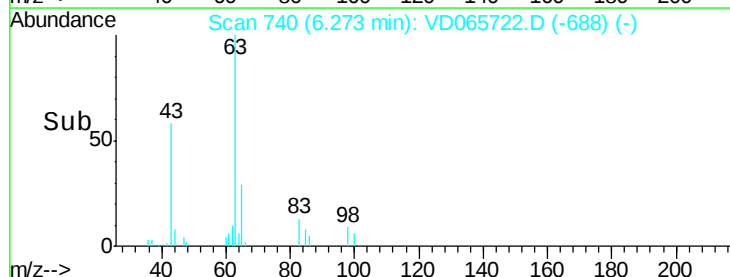
4000

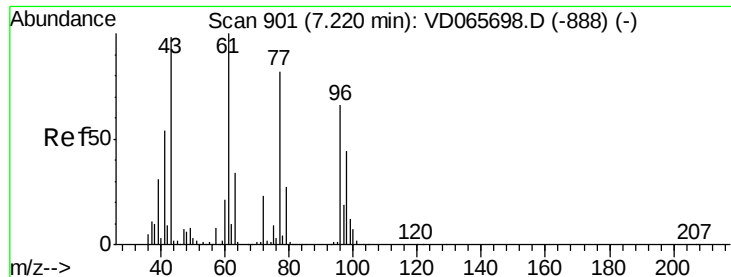
2000

0

6.20 6.30

Time-->





#25

2-Butanone

Concen: 17.440 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

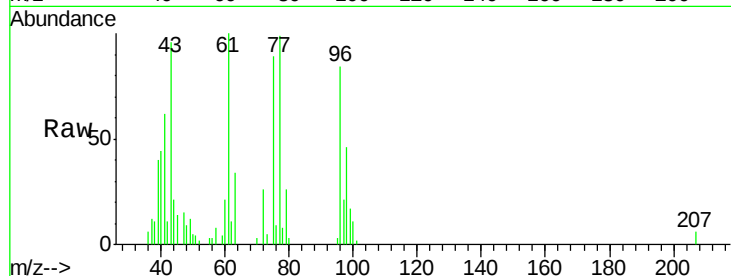
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 20347

Ion Ratio Lower Upper

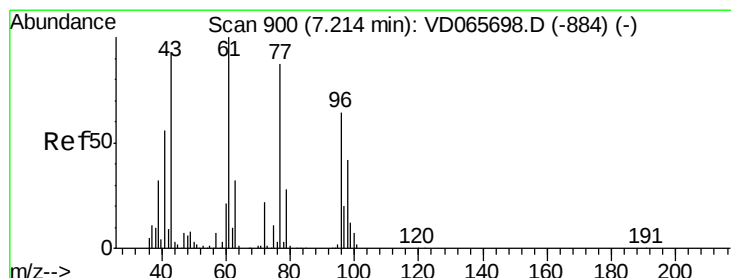
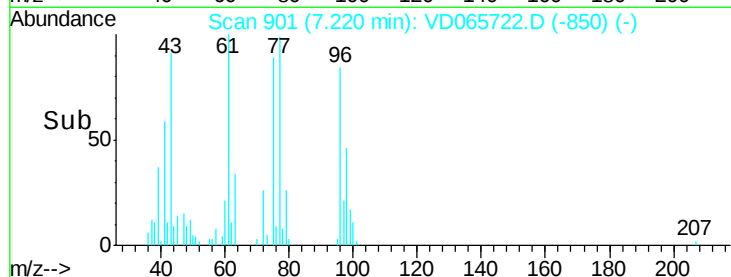
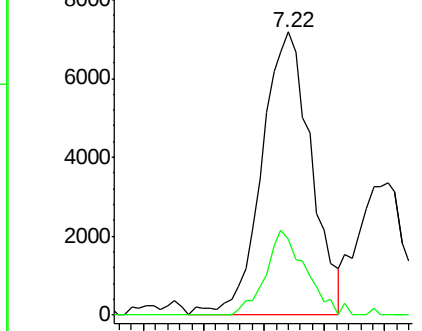
43 100

72 26.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.781 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065722.D

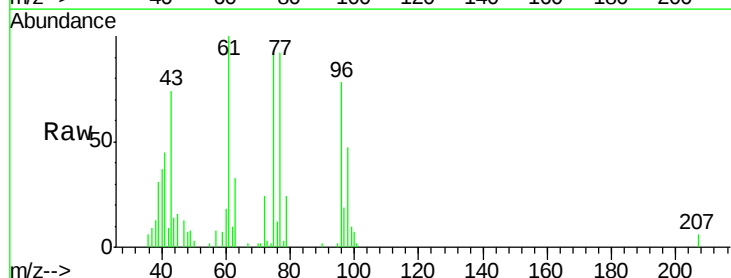
Acq: 08 May 2020 13:50

Tgt Ion: 77 Resp: 24253

Ion Ratio Lower Upper

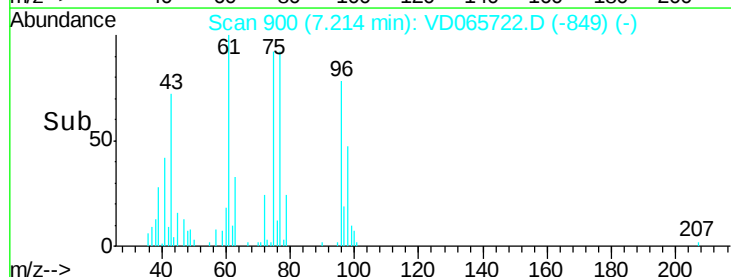
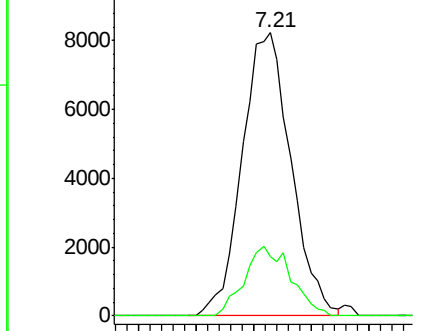
77 100

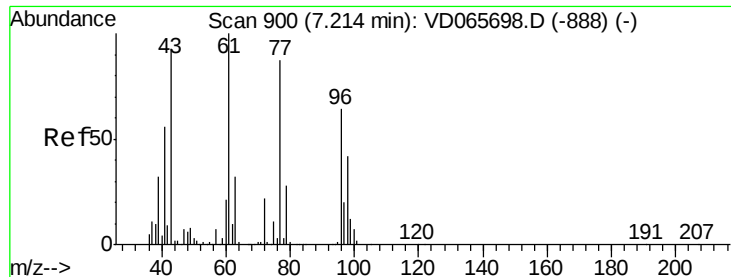
97 23.3 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

cis-1,2-Dichloroethene

Concen: 3.904 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

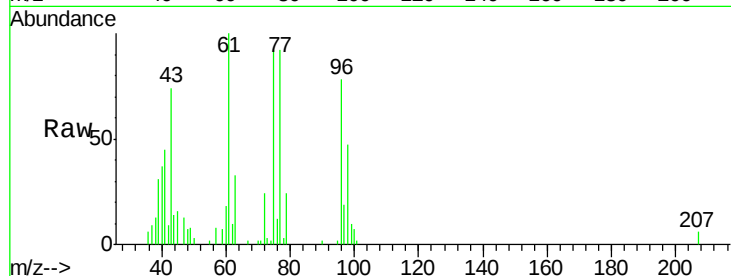
Tot Ion: 96 Resp: 17010

Ion Ratio Lower Upper

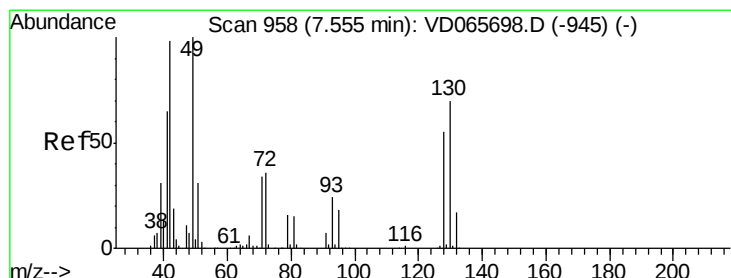
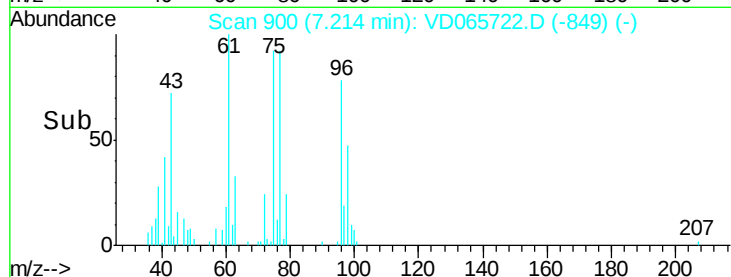
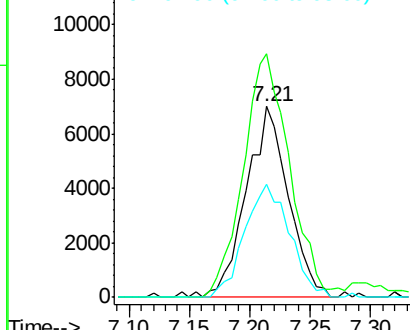
96 100

61 139.0 0.0 306.6

98 63.3 0.0 129.4



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: 3.549 ug/l

RT: 7.55 min Scan# 957

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

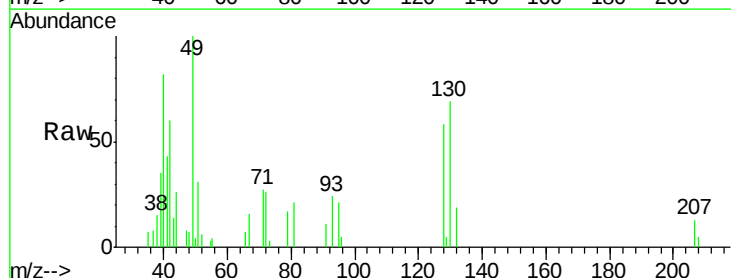
Tgt Ion: 49 Resp: 10546

Ion Ratio Lower Upper

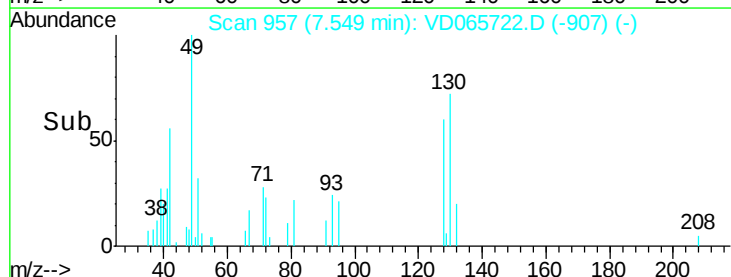
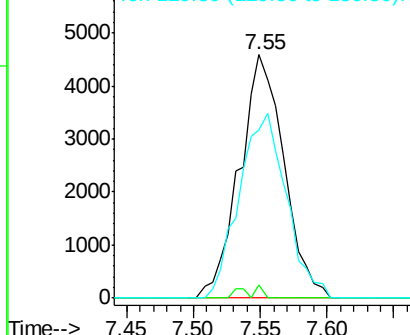
49 100

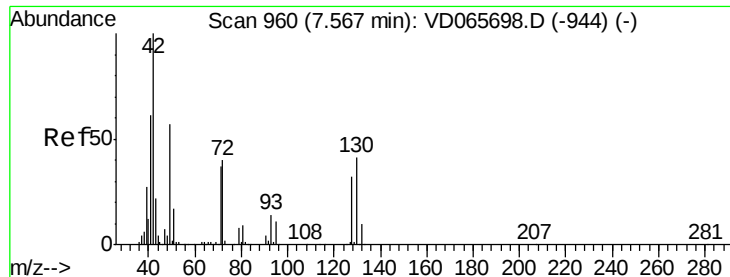
129 0.0 0.0 3.8

130 81.0 56.4 84.6



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





#29

Tetrahydrofuran

Concen: 17.880 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

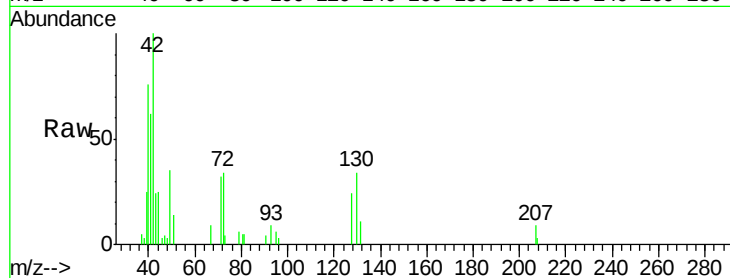
Tot Ion: 42 Resp: 13445

Ion Ratio Lower Upper

42 100

72 40.2 30.4 45.6

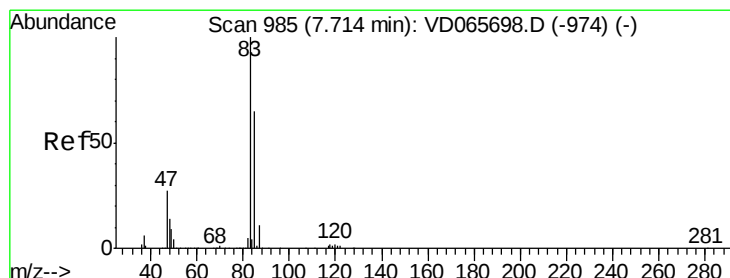
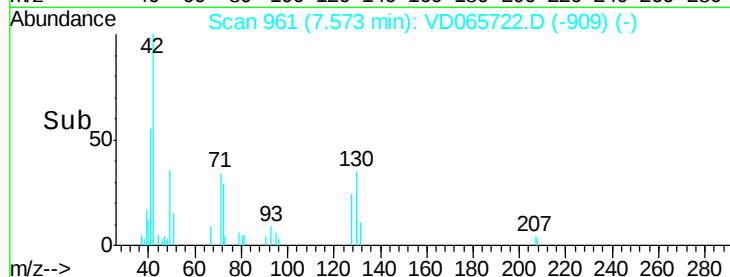
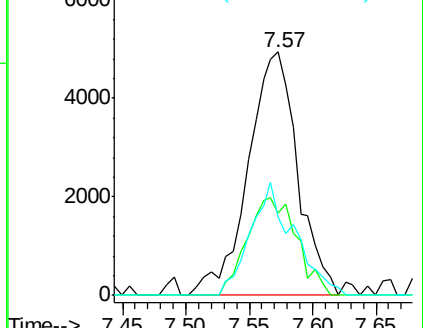
71 41.2 28.0 42.0



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: 3.914 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD065722.D

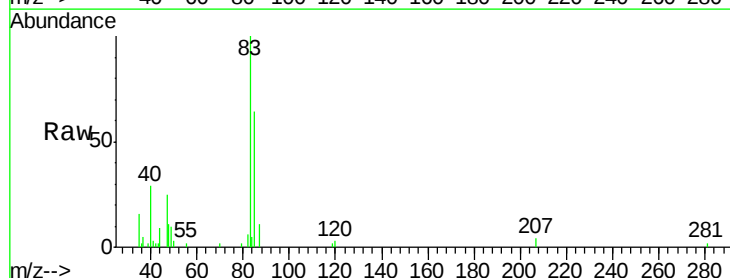
Acq: 08 May 2020 13:50

Tgt Ion: 83 Resp: 26830

Ion Ratio Lower Upper

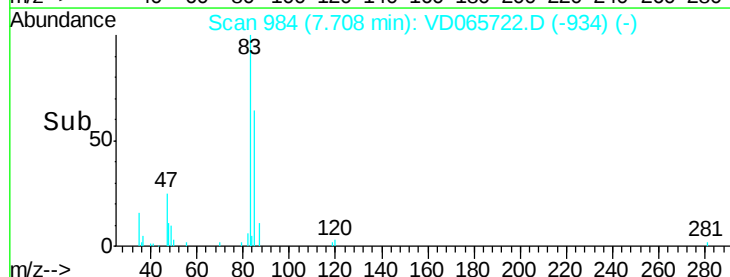
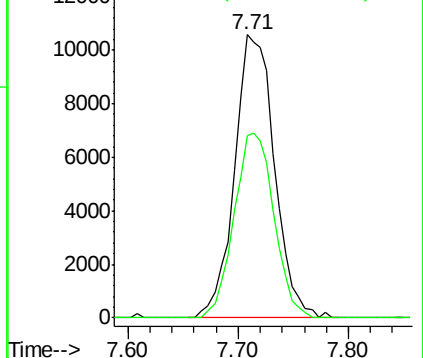
83 100

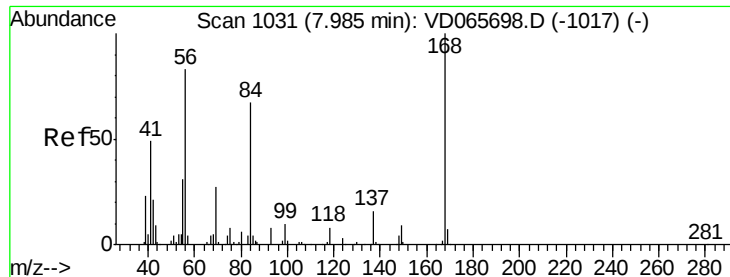
85 64.3 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

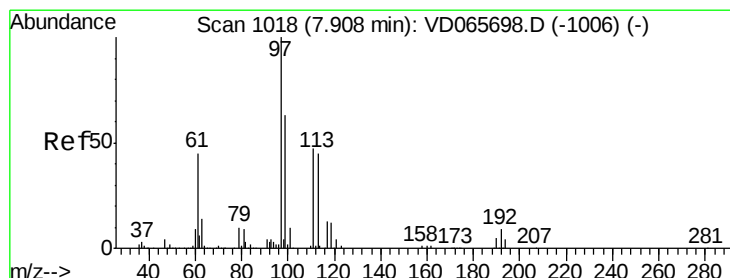
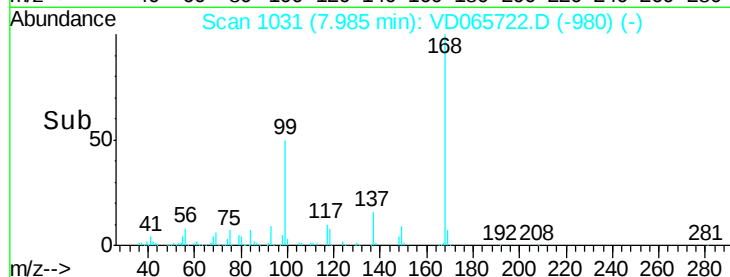
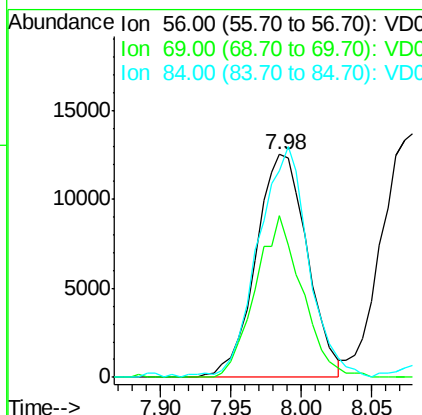
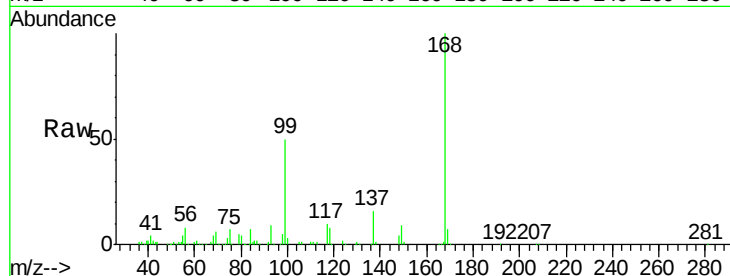




#31
Cyclohexane
Concen: 4.331 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

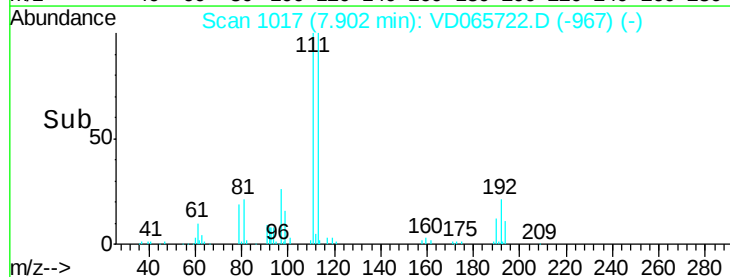
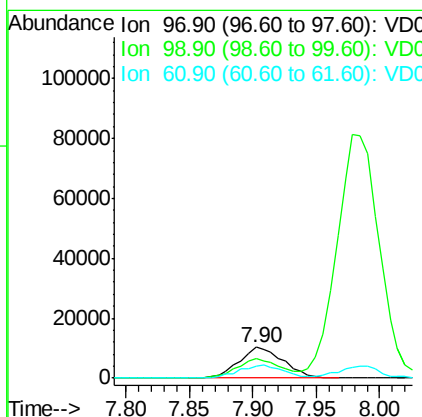
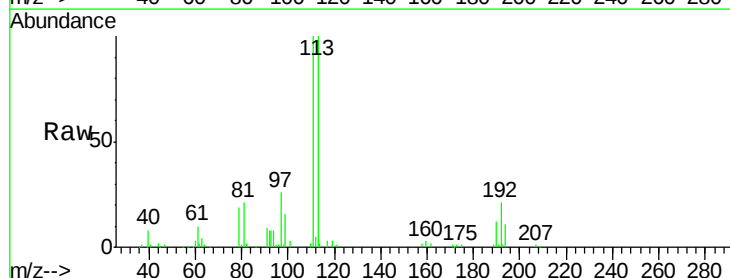
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

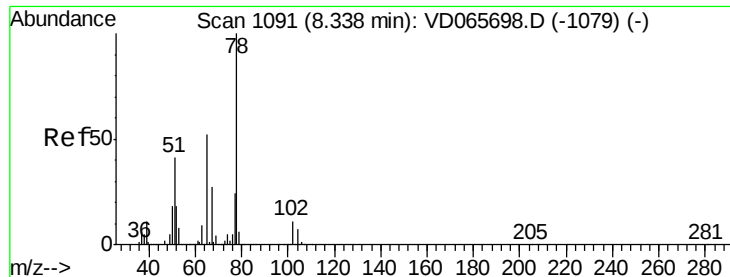
Tot Ion: 56 Resp: 31928
Ion Ratio Lower Upper
56 100
69 72.4 26.3 39.5#
84 91.4 64.5 96.7



#32
1,1,1-Trichloroethane
Concen: 3.989 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 97 Resp: 25352
Ion Ratio Lower Upper
97 100
99 59.0 50.8 76.2
61 42.8 36.0 54.0

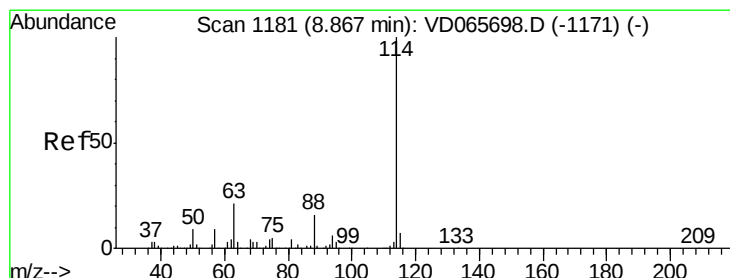
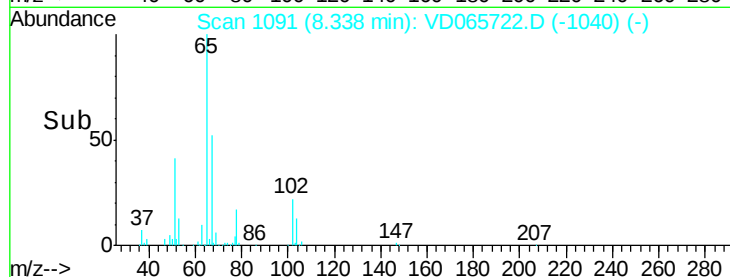
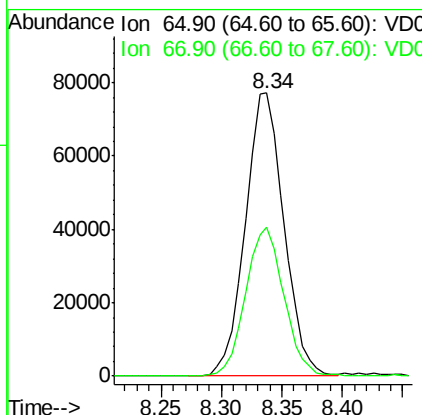
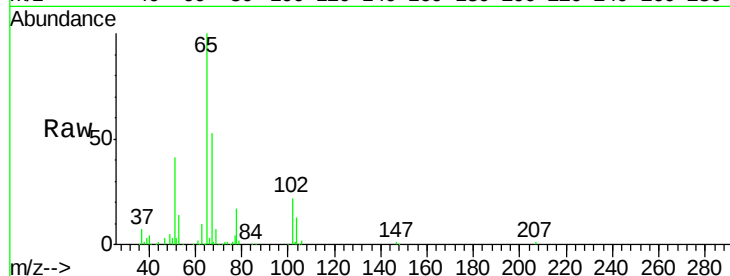




#33
 1,2-Dichloroethane-d4
 Concen: 46.620 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

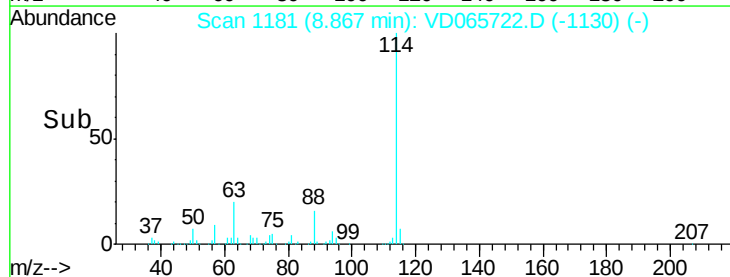
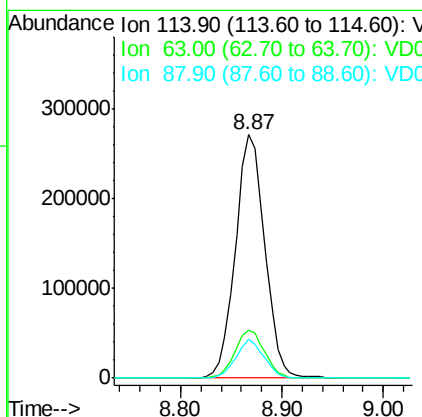
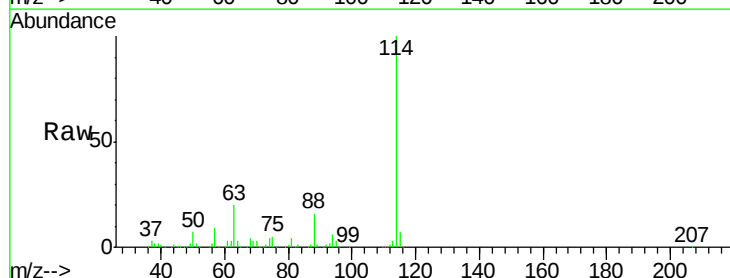
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

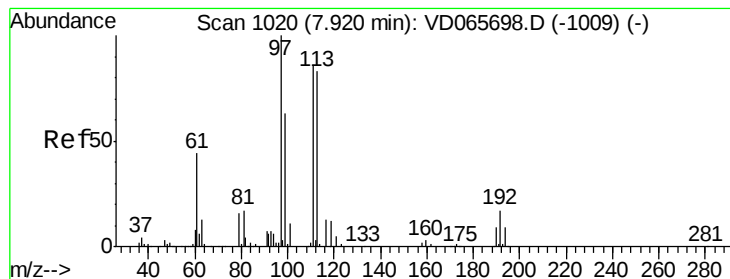
Tot Ion: 65 Resp: 171743
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 114 Resp: 547363
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.4
 88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.565 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

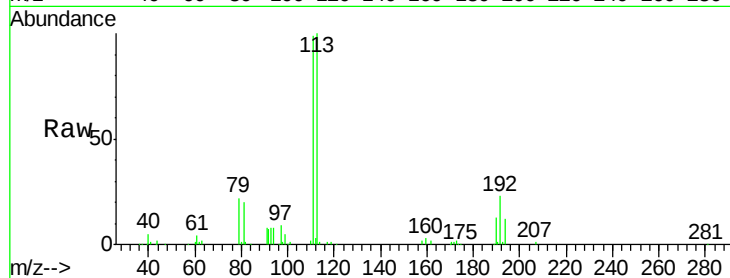
Tot Ion:113 Resp: 176403

Ion Ratio Lower Upper

113 100

111 101.9 82.7 124.1

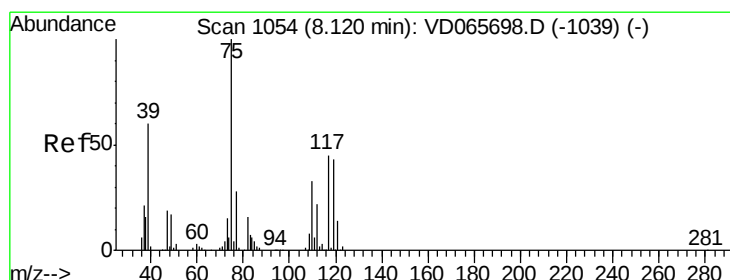
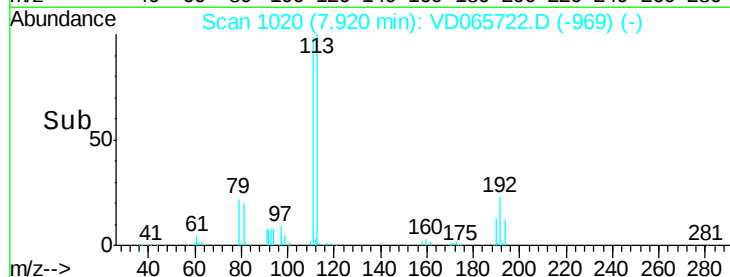
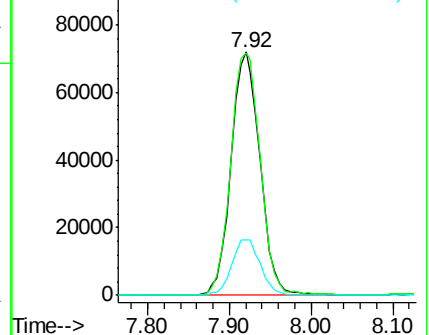
192 22.7 17.0 25.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.991 ug/l

RT: 8.12 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

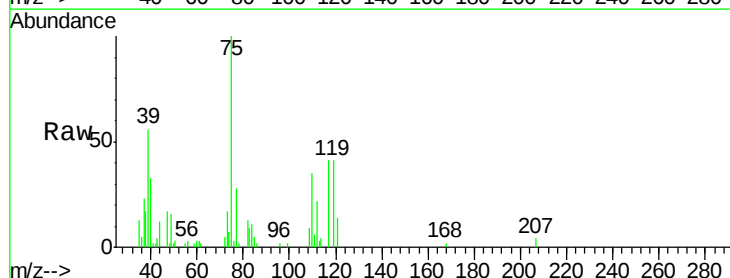
Tgt Ion: 75 Resp: 21695

Ion Ratio Lower Upper

75 100

110 38.0 17.2 51.6

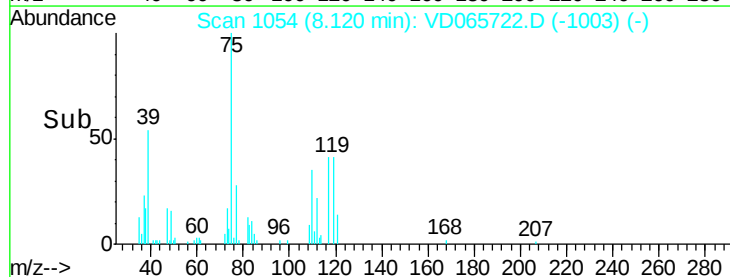
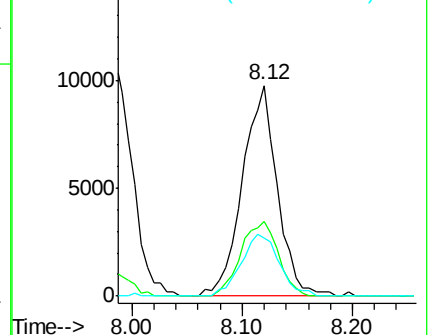
77 32.0 23.7 35.5

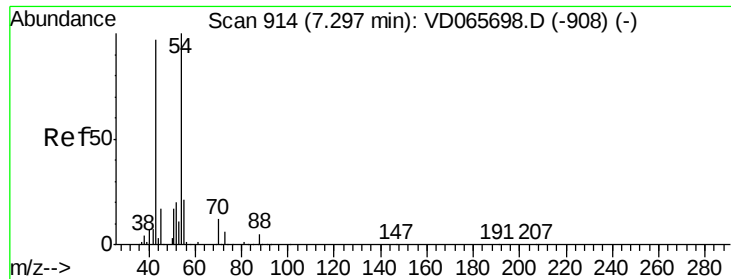


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

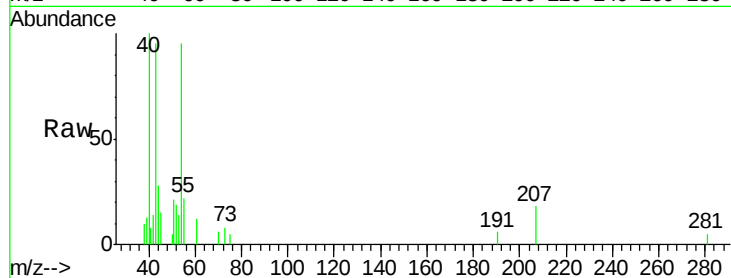




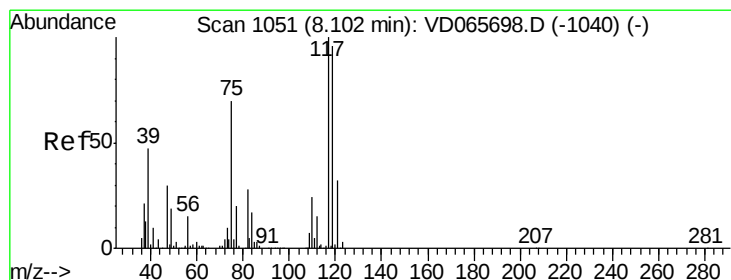
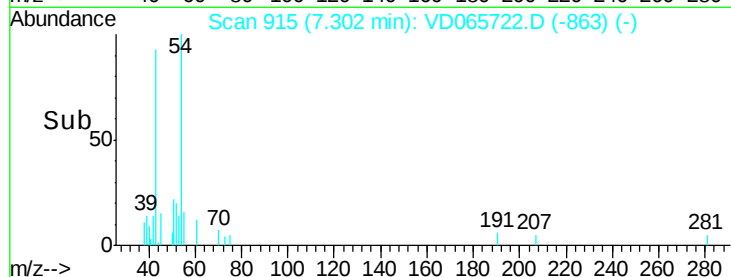
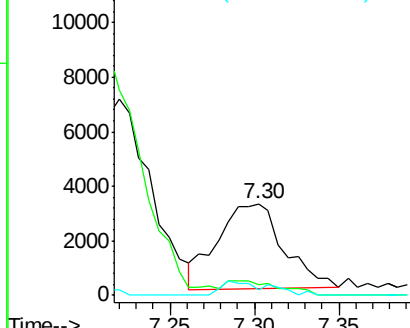
#37
Ethyl Acetate
Concen: 3.215 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 8414
Ion Ratio Lower Upper
43 100
61 16.6 9.9 14.9#
70 7.8 7.3 10.9

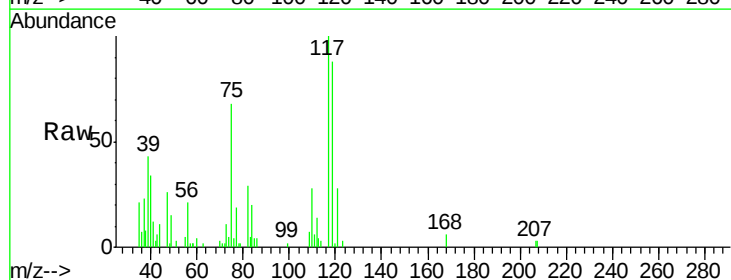


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

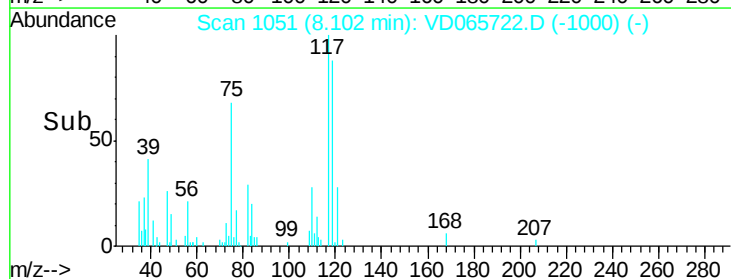
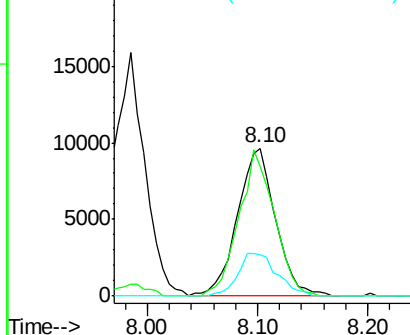


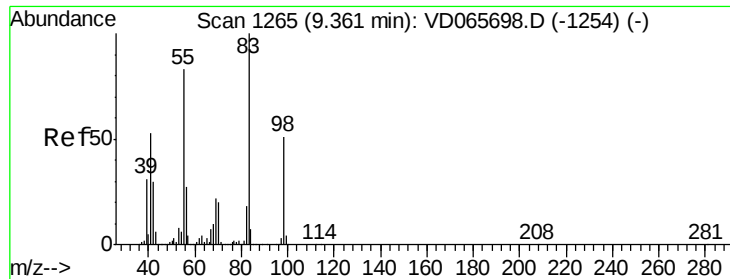
#38
Carbon Tetrachloride
Concen: 4.338 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 117 Resp: 23378
Ion Ratio Lower Upper
117 100
119 87.7 77.1 115.7
121 28.3 25.5 38.3



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

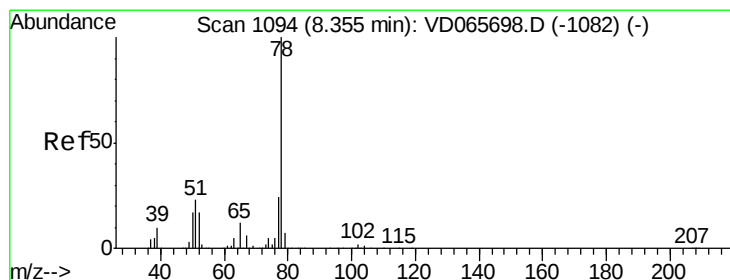
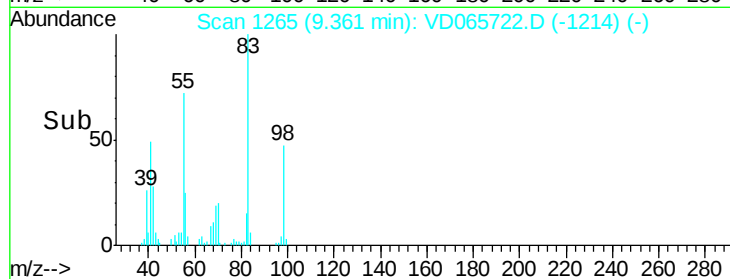
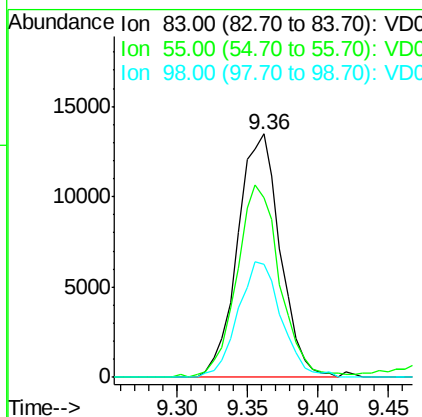
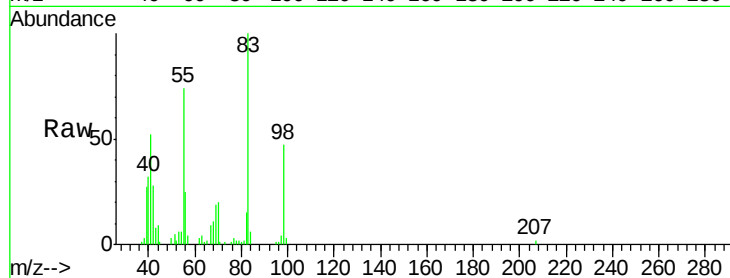




#39
Methvlcvclohexane
Concen: 4.173 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

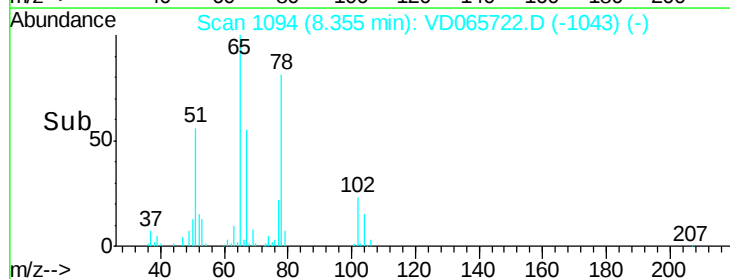
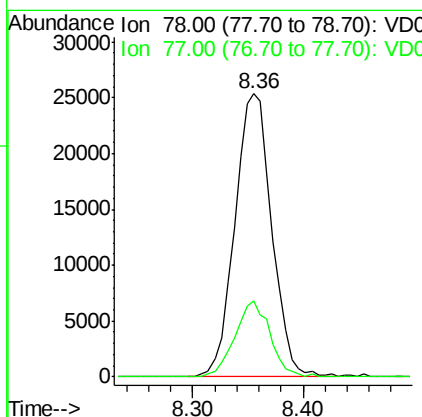
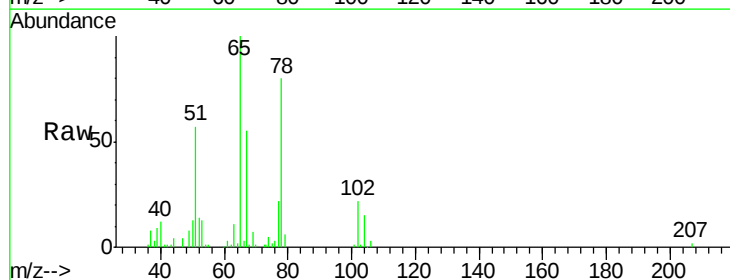
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

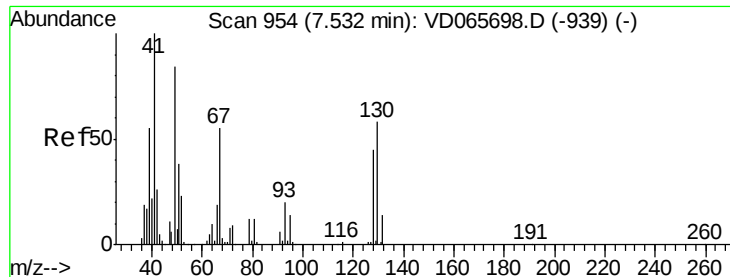
Tot Ion: 83 Resp: 28477
Ion Ratio Lower Upper
83 100
55 73.9 66.0 99.0
98 46.7 41.0 61.4



#40
Benzene
Concen: 4.002 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 78 Resp: 59407
Ion Ratio Lower Upper
78 100
77 27.0 19.6 29.4

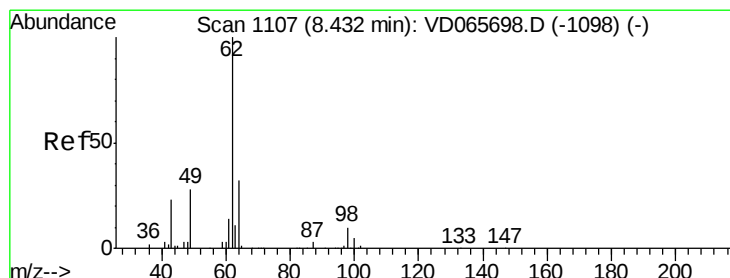
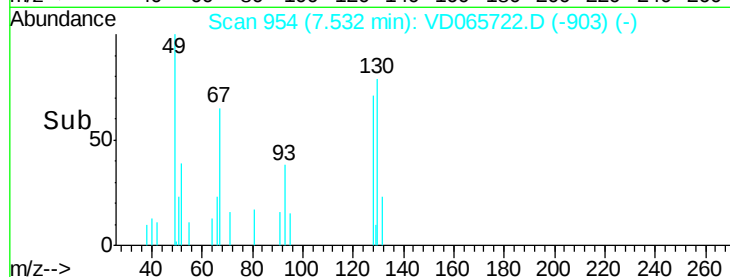
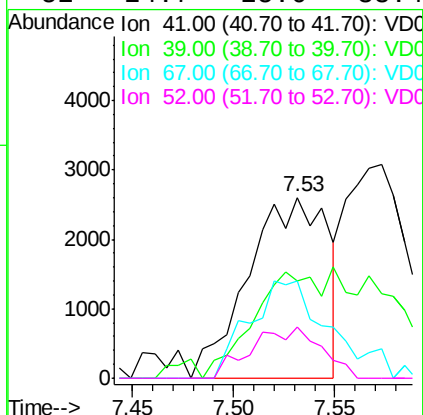
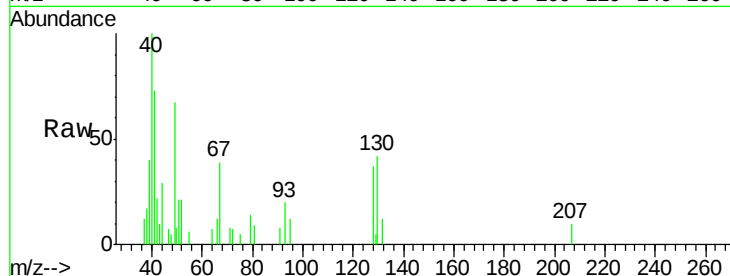




#41
Methacrylonitrile
Concen: 4.735 ug/l m
RT: 7.53 min Scan# 954
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

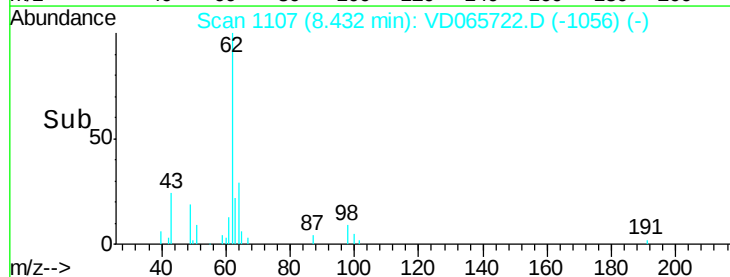
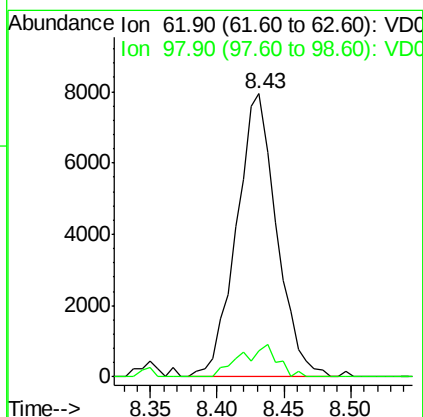
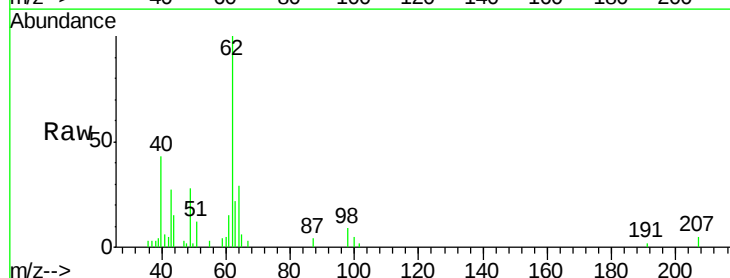
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

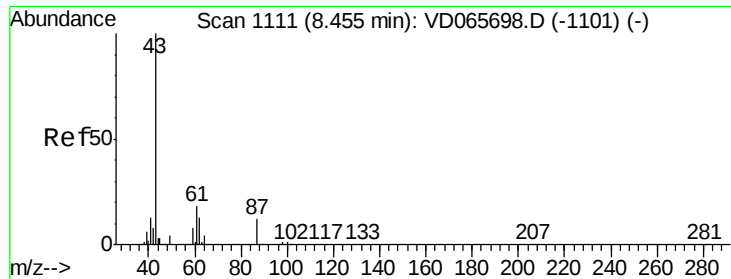
Tot Ion: 41 Resp: 7149
Ion Ratio Lower Upper
41 100
39 49.0 52.5 78.7#
67 55.2 59.4 89.0#
52 24.7 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 3.877 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 62 Resp: 16564
Ion Ratio Lower Upper
62 100
98 10.3 0.0 19.2





#43

Isopropyl Acetate

Concen: 3.650 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

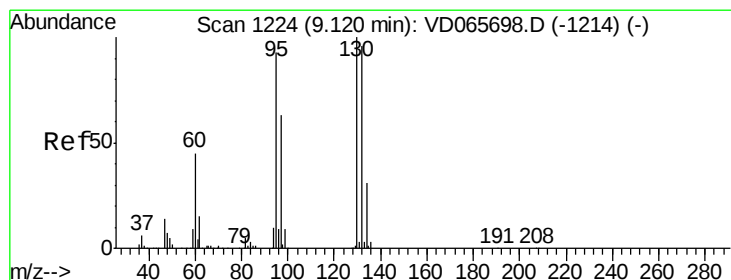
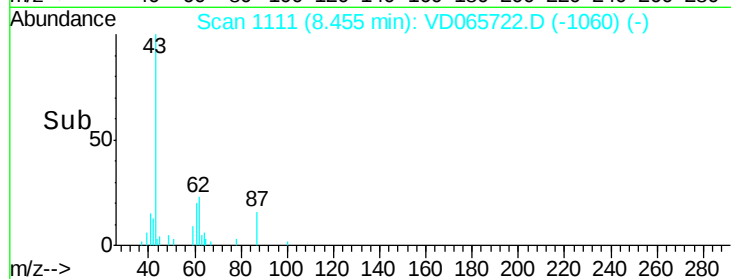
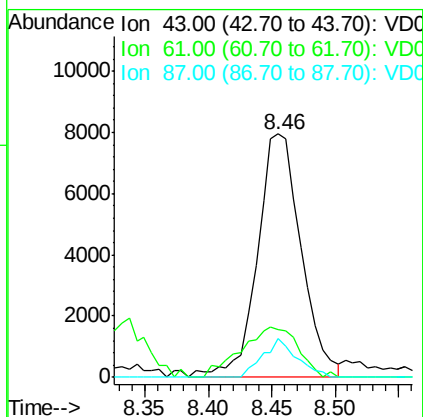
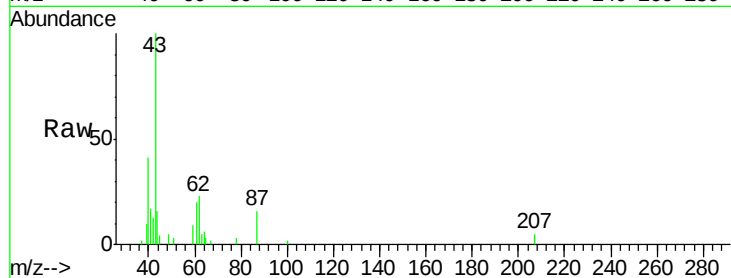
Tot Ion: 43 Resp: 19104

Ion Ratio Lower Upper

43 100

61 26.9 21.9 32.9

87 12.3 9.4 14.2



#44

Trichloroethene

Concen: 4.263 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD065722.D

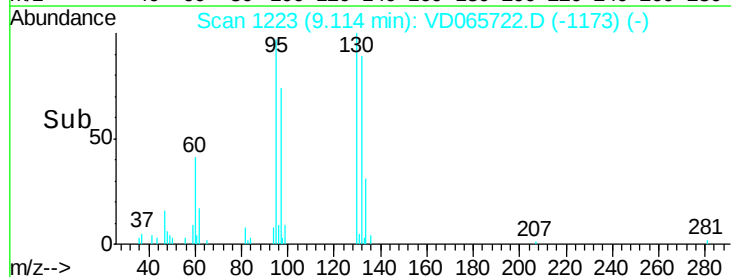
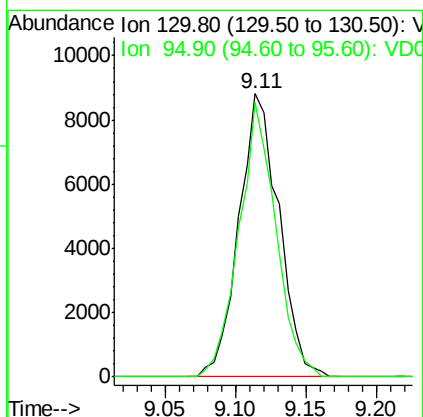
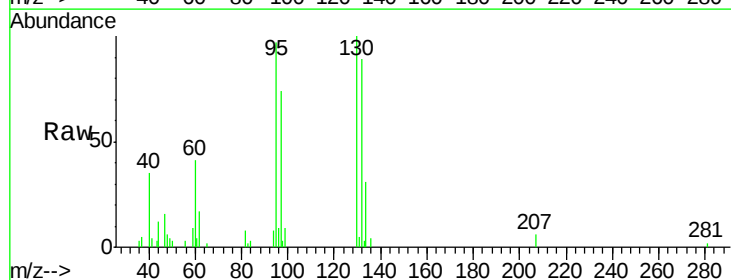
Acq: 08 May 2020 13:50

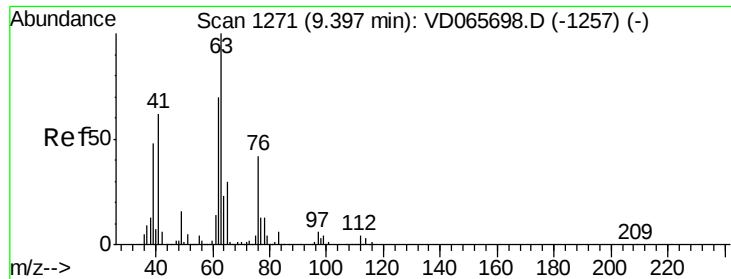
Tgt Ion: 130 Resp: 17441

Ion Ratio Lower Upper

130 100

95 97.1 0.0 185.2





#45

1,2-Dichloropropane

Concen: 3.815 ug/l

RT: 9.40 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

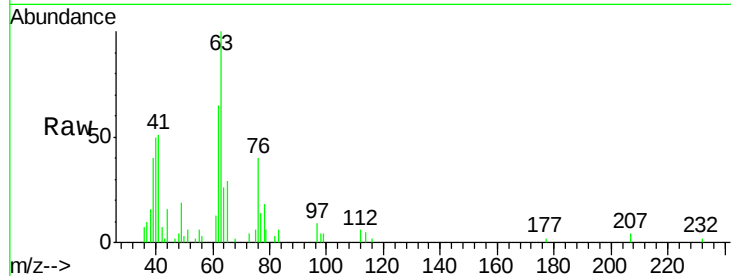
MDL-SOIL-03-QT2-2020DL

Tot Ion: 63 Resp: 14648

Ion Ratio Lower Upper

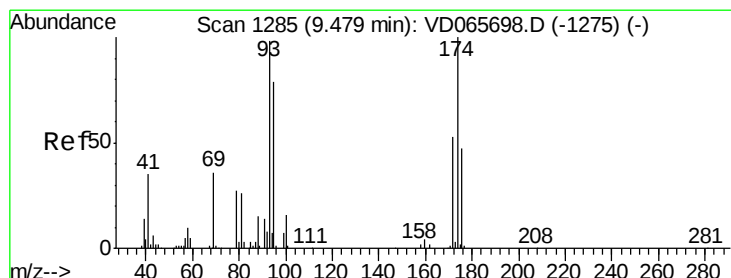
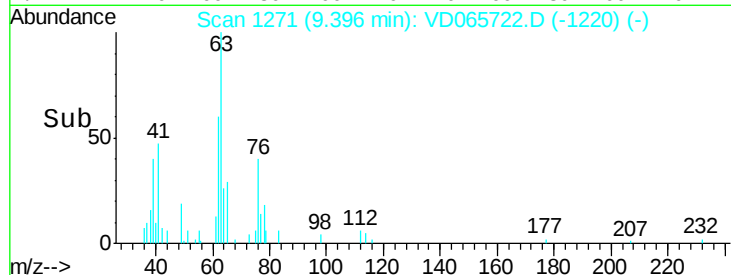
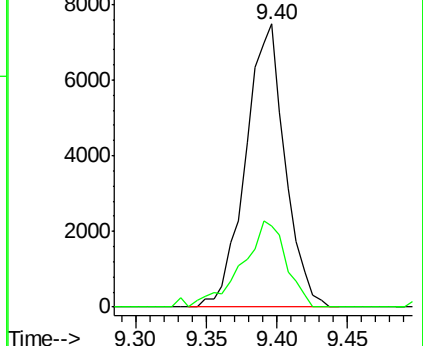
63 100

65 28.6 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 3.662 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

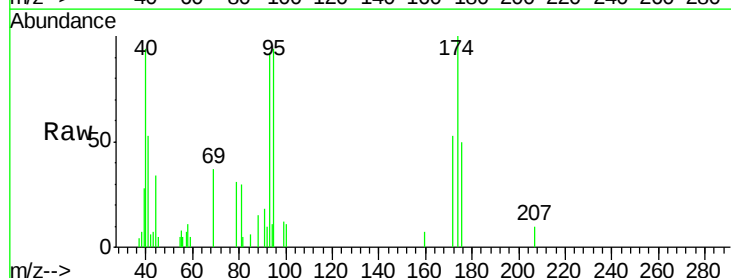
Tgt Ion: 93 Resp: 7053

Ion Ratio Lower Upper

93 100

95 88.3 65.3 97.9

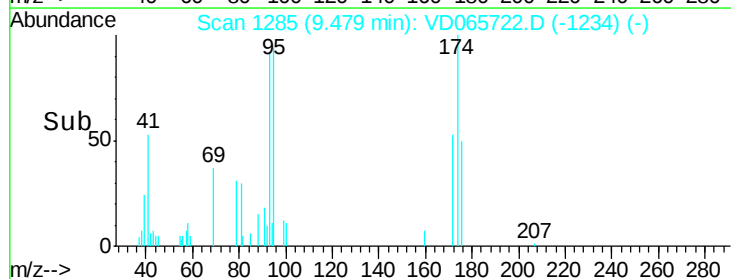
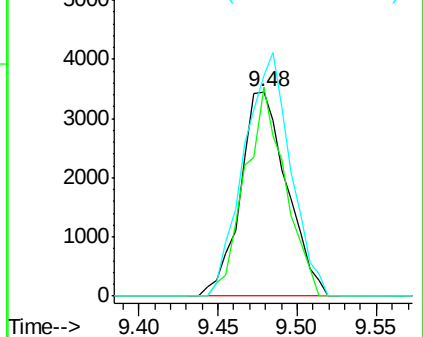
174 119.0 82.7 124.1

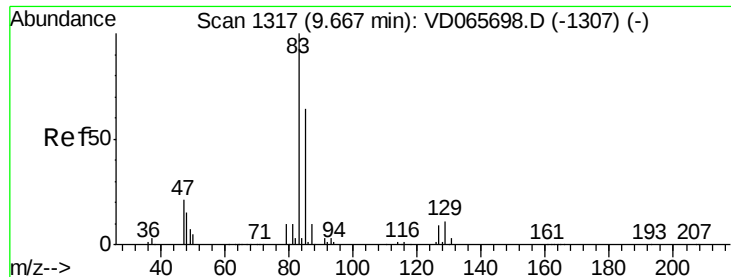


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

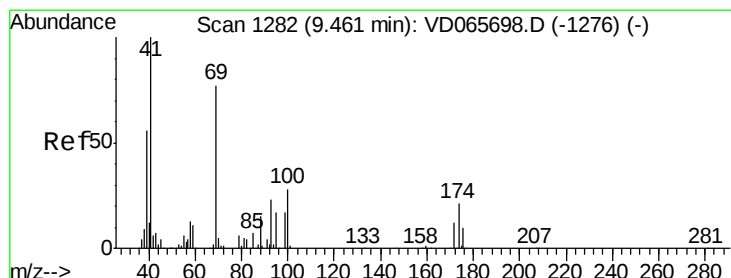
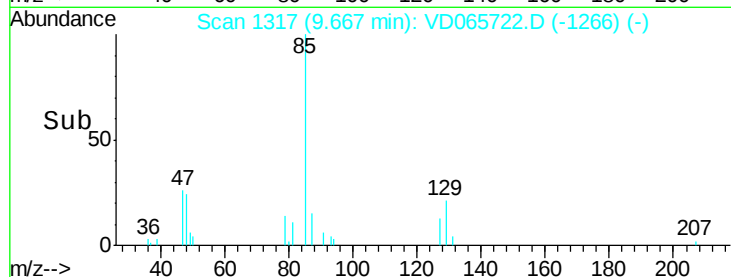
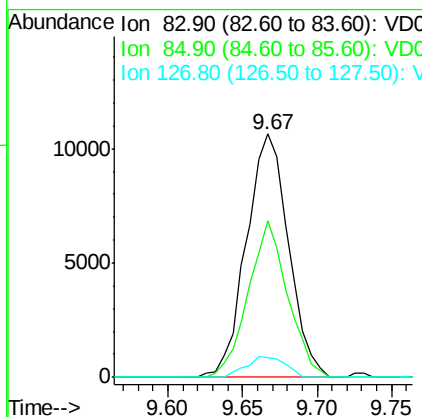
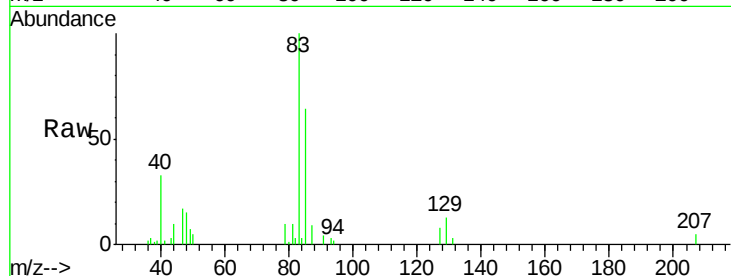




#47
Bromodichloromethane
Concen: 4.026 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

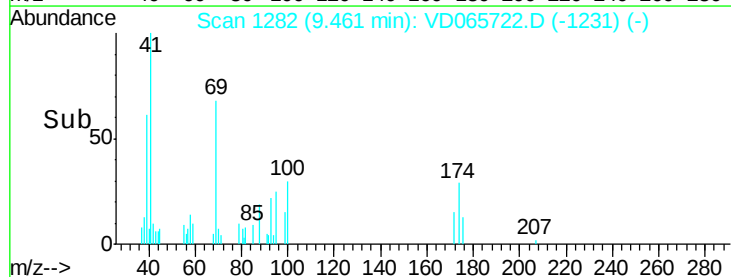
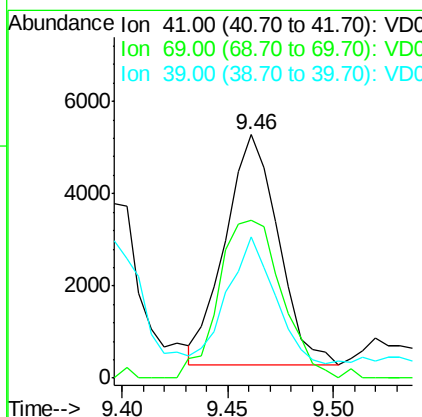
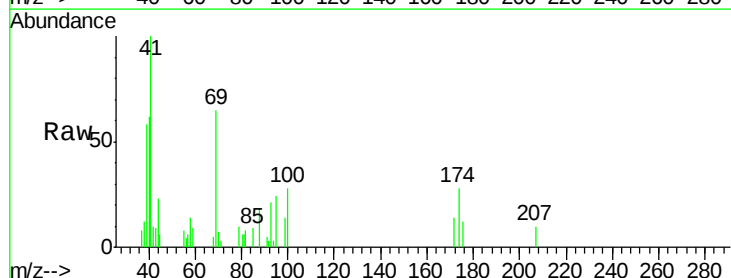
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

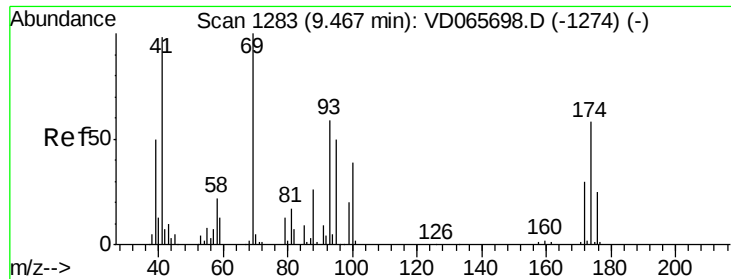
Tot Ion: 83 Resp: 20736
Ion Ratio Lower Upper
83 100
85 64.1 50.9 76.3
127 8.2 6.9 10.3



#48
Methyl methacrylate
Concen: 3.307 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 41 Resp: 8667
Ion Ratio Lower Upper
41 100
69 82.6 58.2 87.2
39 49.2 43.3 64.9

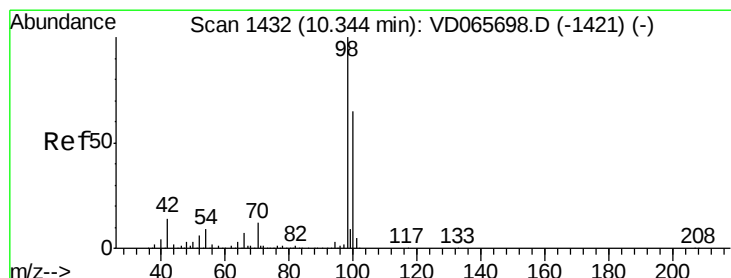
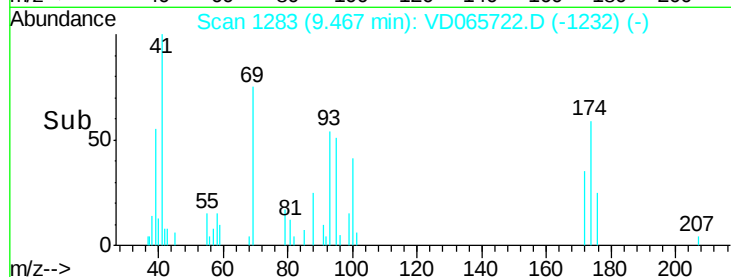
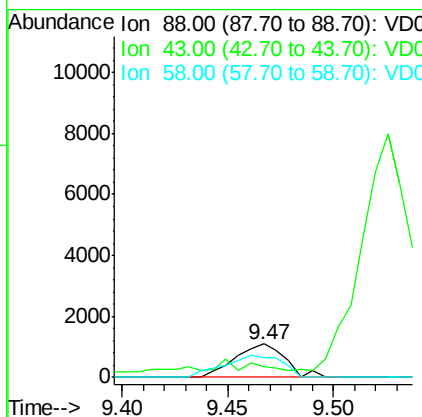
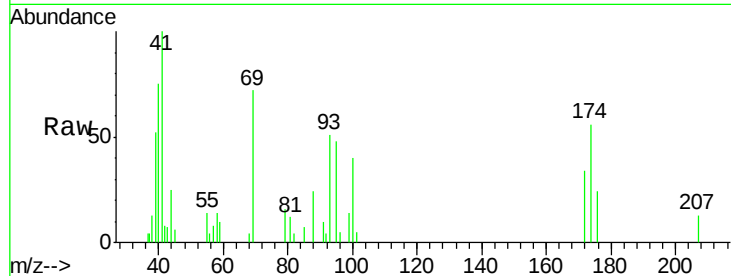




#49
1,4-Dioxane
Concen: 74.810 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

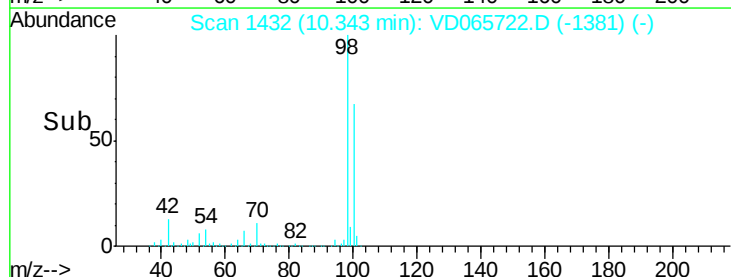
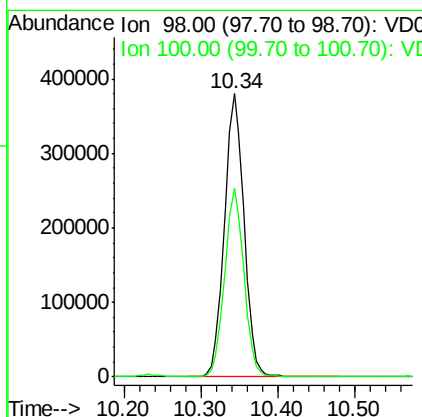
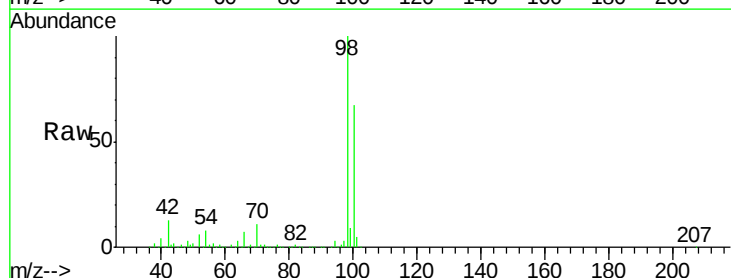
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

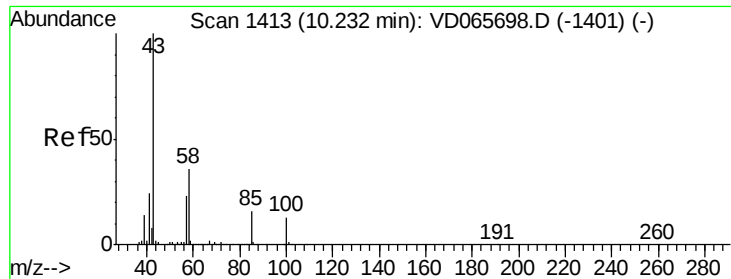
Tot Ion: 88 Resp: 1766
Ion Ratio Lower Upper
88 100
43 34.0 31.6 47.4
58 77.9 60.2 90.4



#50
Toluene-d8
Concen: 51.451 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 98 Resp: 675938
Ion Ratio Lower Upper
98 100
100 65.6 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 17.027 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

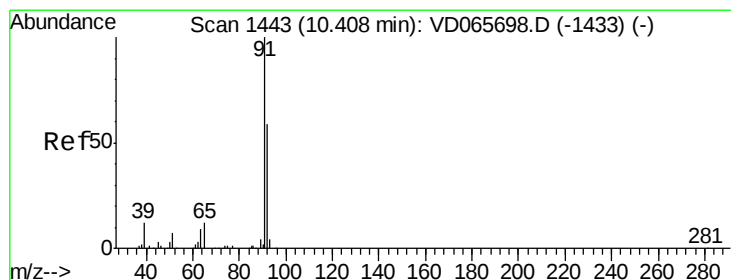
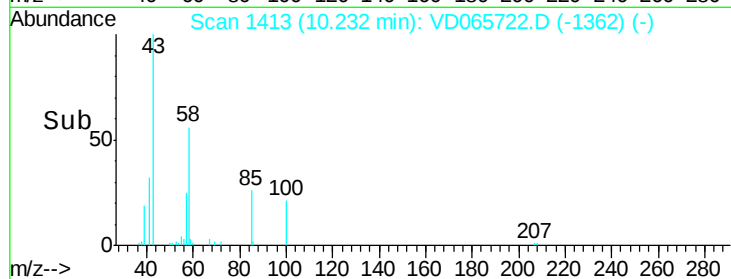
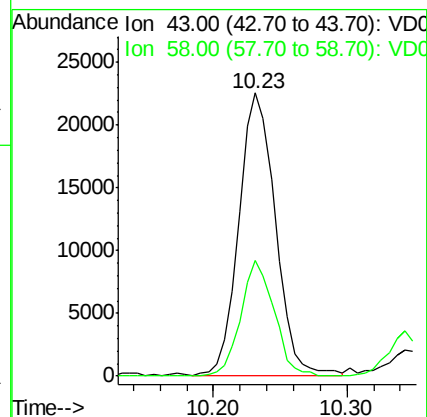
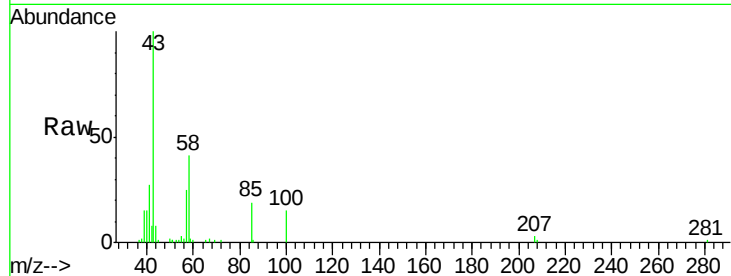
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 42953

Ion Ratio Lower Upper

43 100

58 37.2 28.6 42.8



#52

Toluene

Concen: 4.016 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065722.D

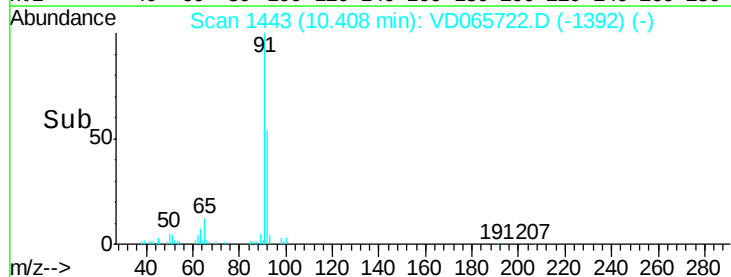
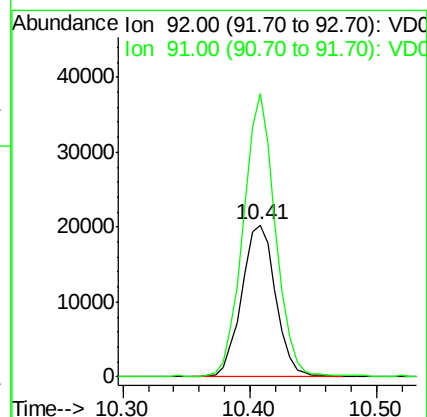
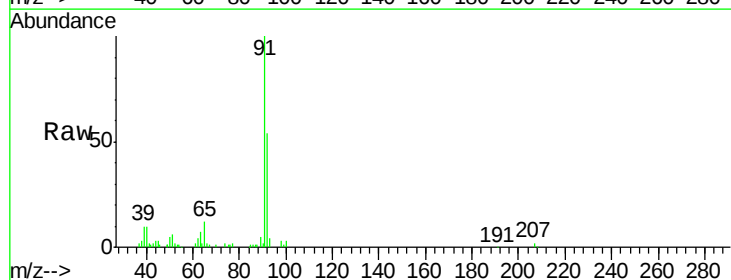
Acq: 08 May 2020 13:50

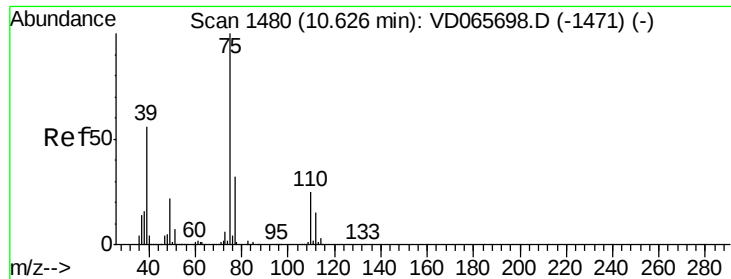
Tgt Ion: 92 Resp: 37703

Ion Ratio Lower Upper

92 100

91 176.2 138.1 207.1





#53

t-1,3-Dichloropropene

Concen: 3.762 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

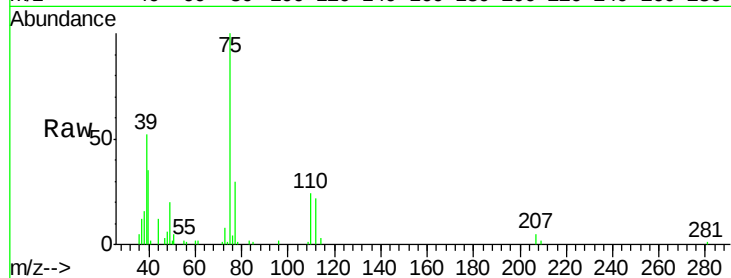
MDL-SOIL-03-QT2-2020DL

Tot Ion: 75 Resp: 19622

Ion Ratio Lower Upper

75 100

77 30.4 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

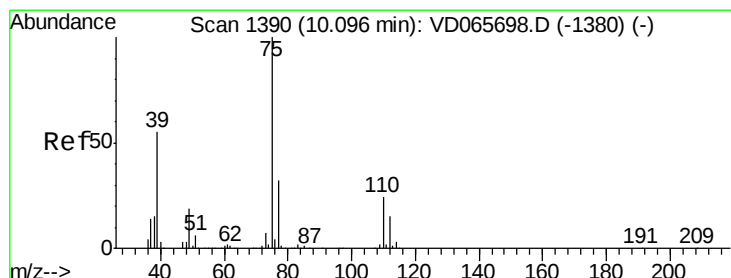
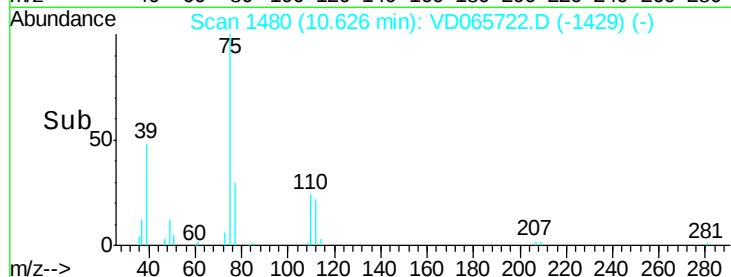
10.63

10000

5000

0

Time--> 10.55 10.60 10.65 10.70



#54

cis-1,3-Dichloropropene

Concen: 3.809 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

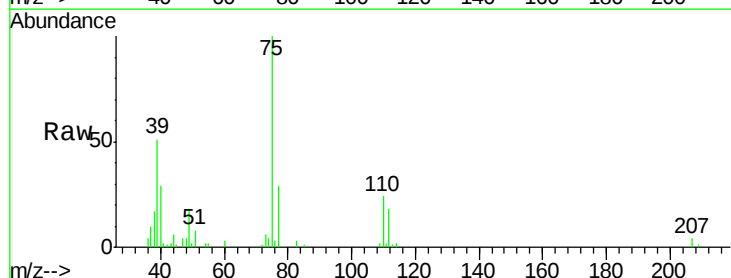
Tgt Ion: 75 Resp: 23406

Ion Ratio Lower Upper

75 100

77 29.5 25.8 38.8

39 51.4 44.4 66.6



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.10

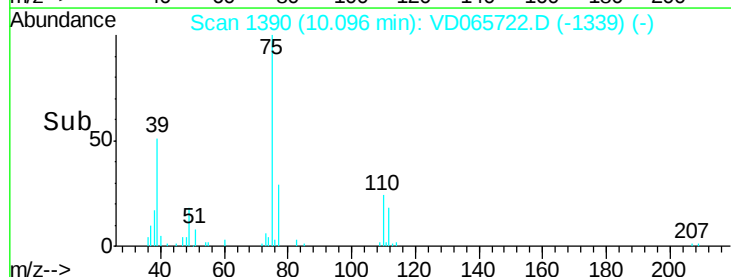
15000

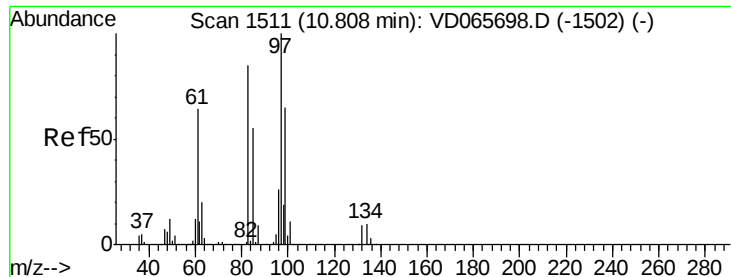
10000

5000

0

Time--> 10.00 10.10





#55

1,1,2-Trichloroethane

Concen: 4.032 ug/l

RT: 10.81 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 97 Resp: 10467

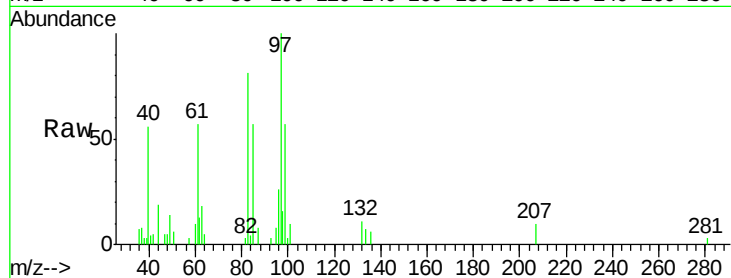
Ion Ratio Lower Upper

97 100

83 80.7 68.2 102.4

85 56.7 43.6 65.4

99 57.0 52.2 78.4

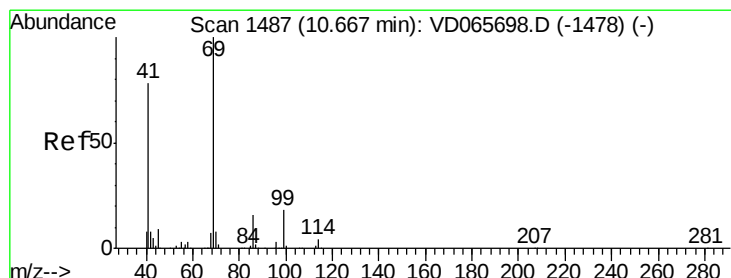
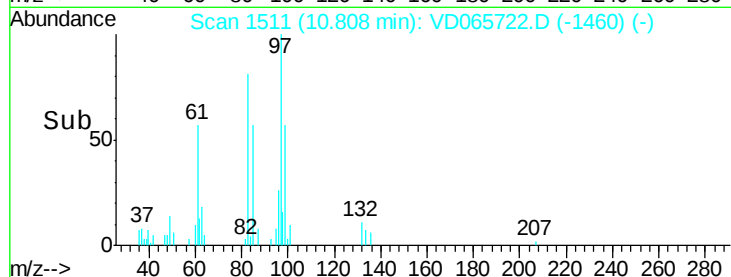
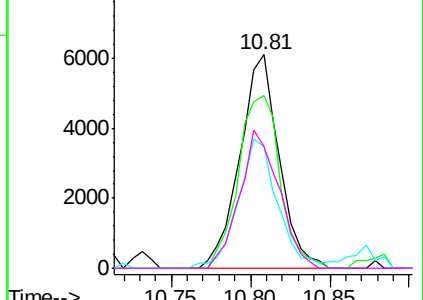


Abundance Ion 96.90 (96.60 to 97.60): VDC

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



#56

Ethyl methacrylate

Concen: 3.835 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

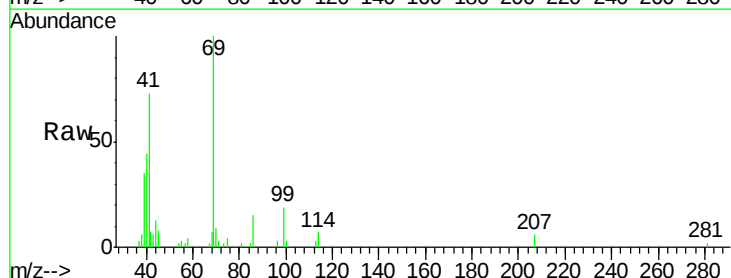
Tgt Ion: 69 Resp: 14376

Ion Ratio Lower Upper

69 100

41 66.3 61.4 92.0

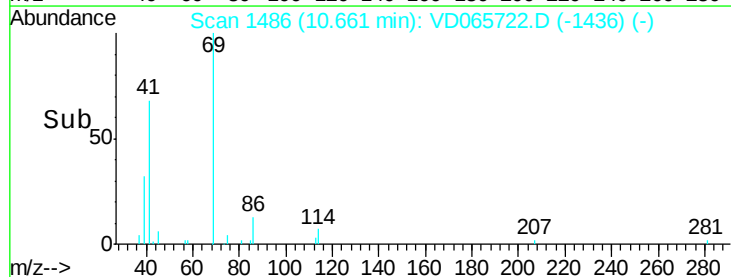
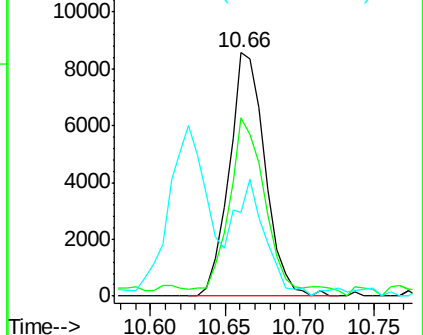
39 40.7 32.7 49.1

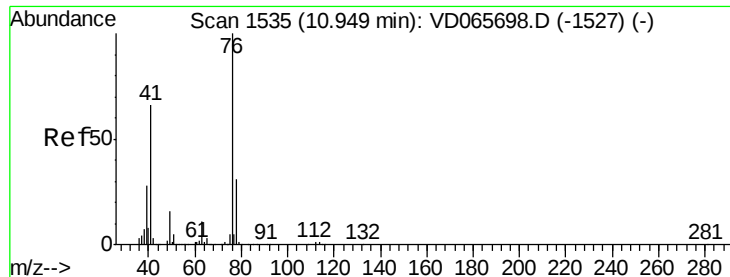


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

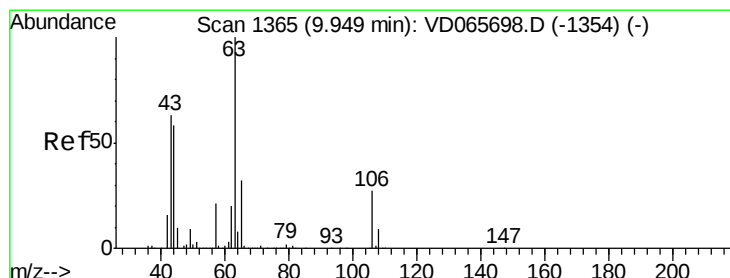
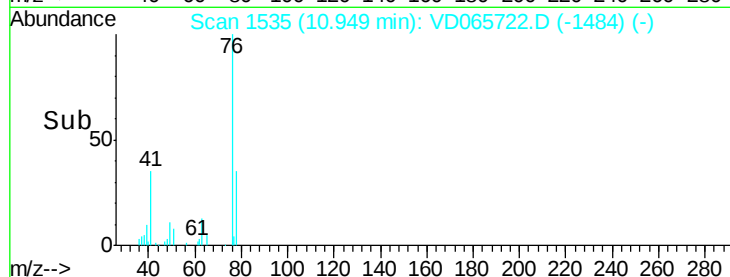
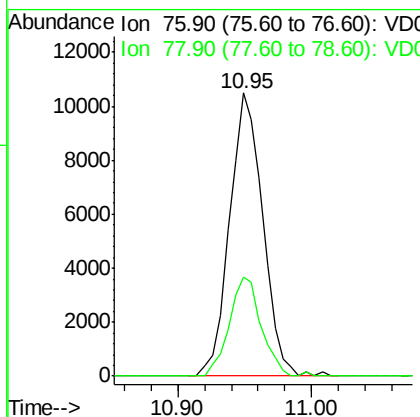
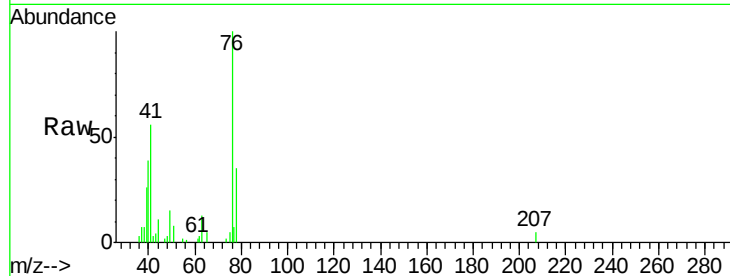




#57
 1,3-Dichloropropane
 Concen: 3.889 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

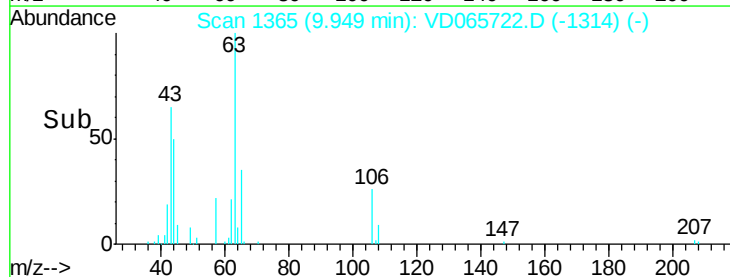
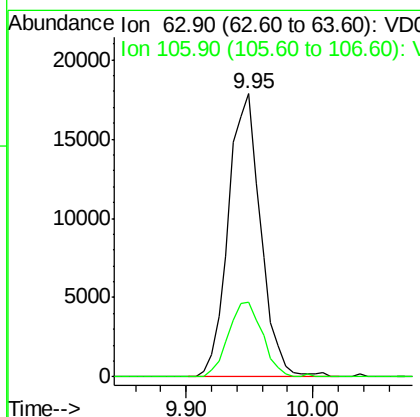
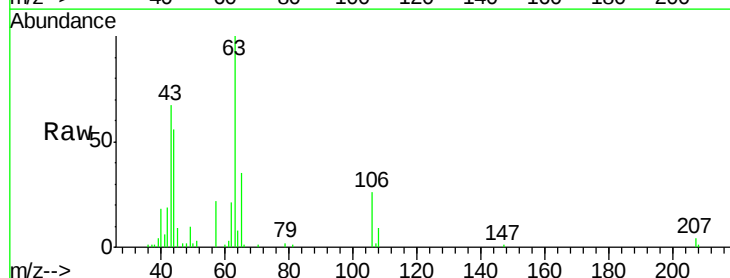
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

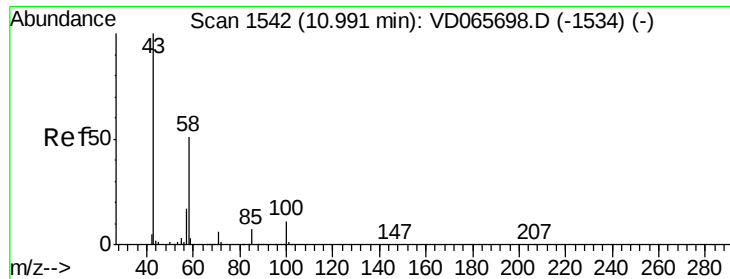
Tot Ion: 76 Resp: 18152
 Ion Ratio Lower Upper
 76 100
 78 33.5 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.319 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 63 Resp: 31526
 Ion Ratio Lower Upper
 63 100
 106 27.8 22.0 33.0

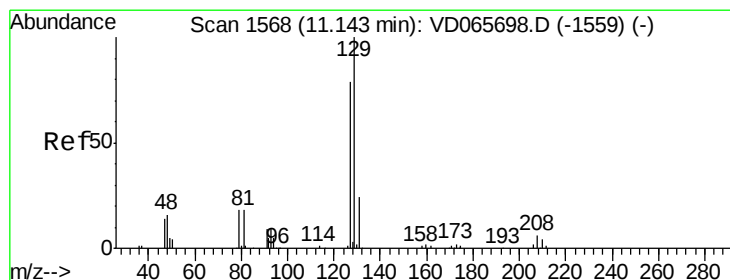
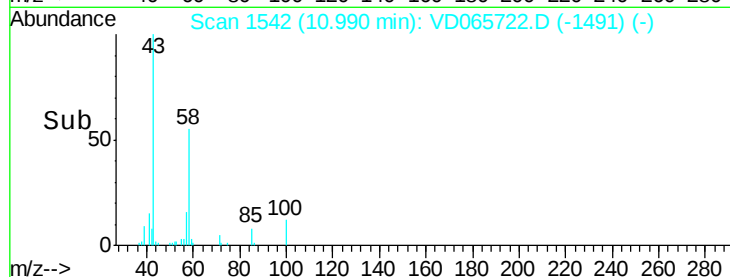
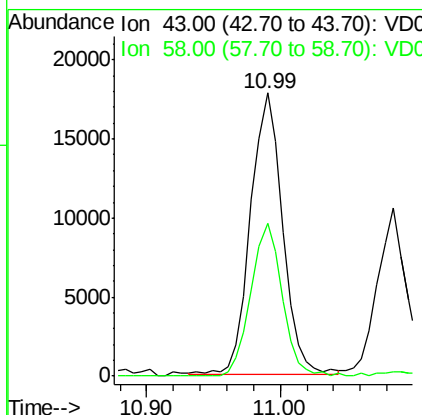
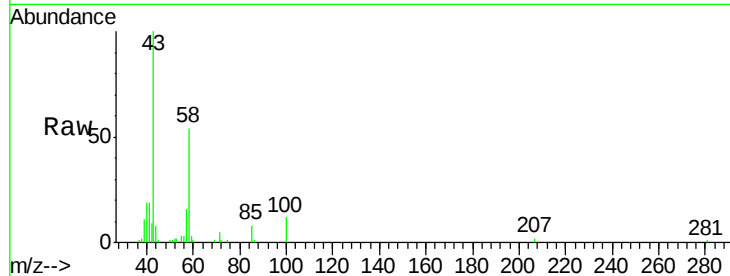




#59
2-Hexanone
Concen: 17.059 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

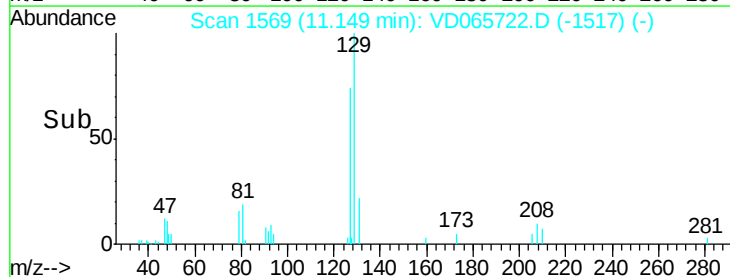
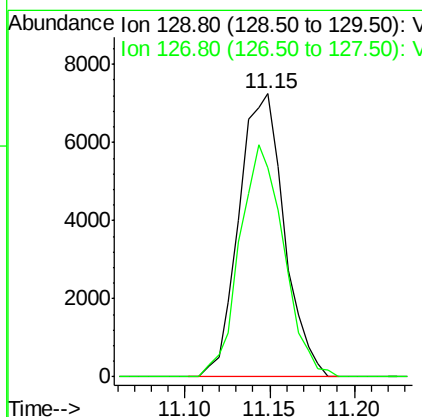
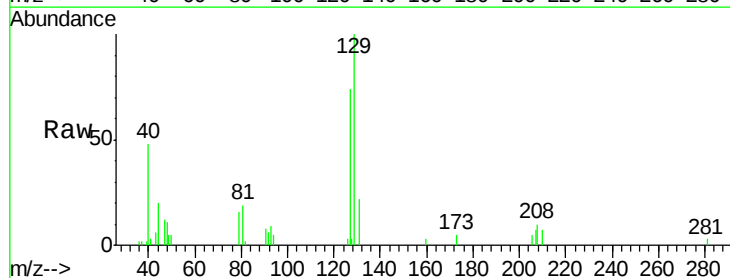
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

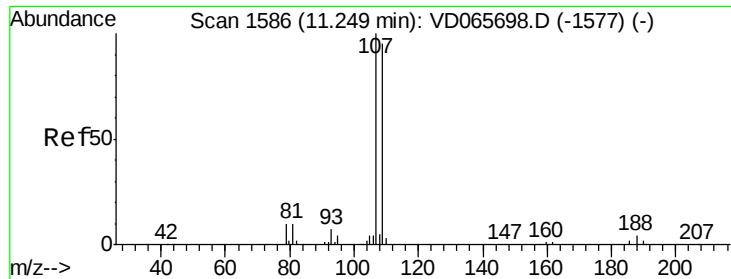
Tot Ion: 43 Resp: 29598
Ion Ratio Lower Upper
43 100
58 52.7 25.4 76.0



#60
Dibromochloromethane
Concen: 3.871 ug/l
RT: 11.15 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion: 129 Resp: 13500
Ion Ratio Lower Upper
129 100
127 79.7 38.9 116.6

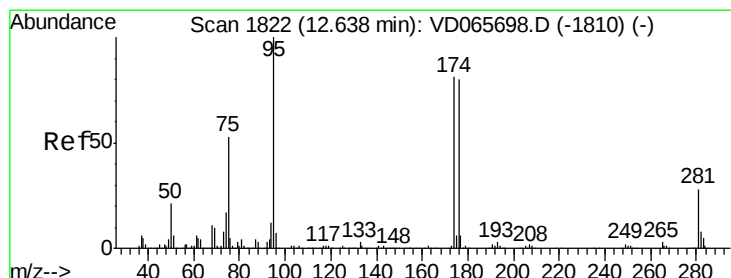
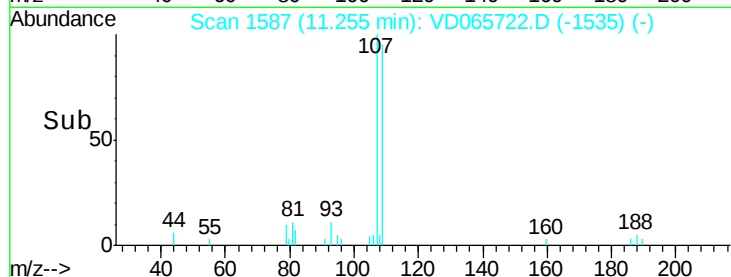
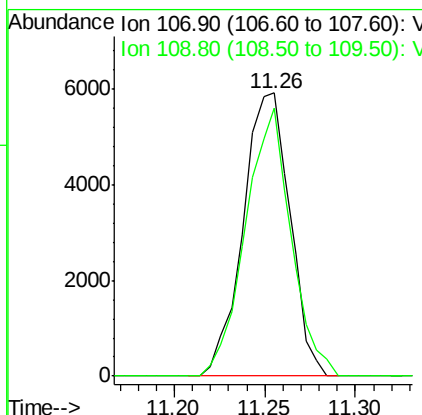
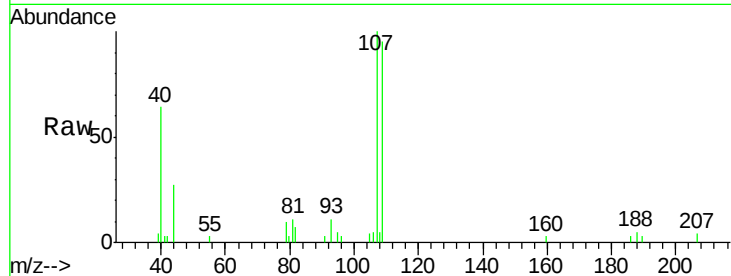




#61
 1,2-Dibromoethane
 Concen: 4.064 ug/l
 RT: 11.26 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

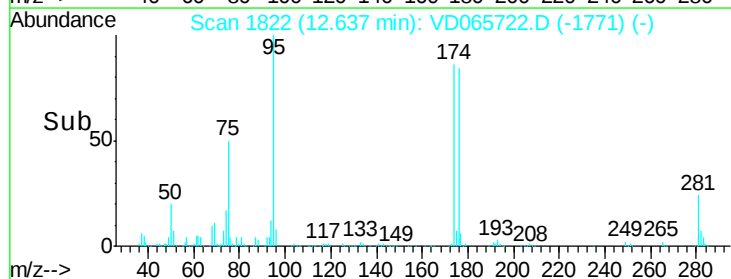
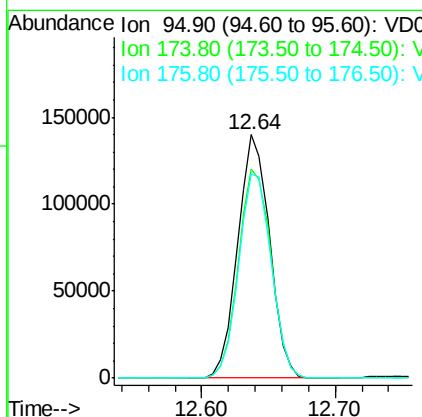
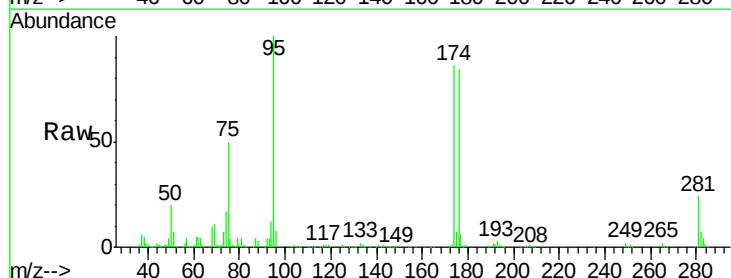
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

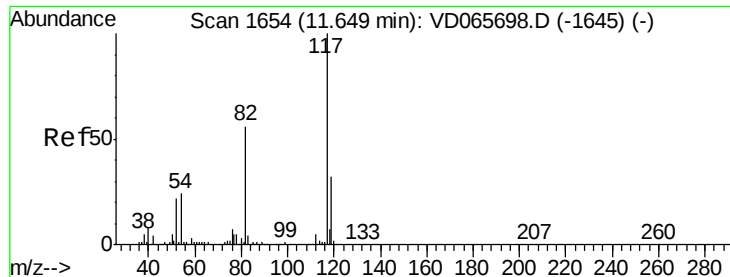
Tot Ion: 107 Resp: 10615
 Ion Ratio Lower Upper
 107 100
 109 92.6 74.9 112.3



#62
 4-Bromofluorobenzene
 Concen: 49.496 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 95 Resp: 230521
 Ion Ratio Lower Upper
 95 100
 174 88.5 0.0 162.6
 176 86.1 0.0 159.0

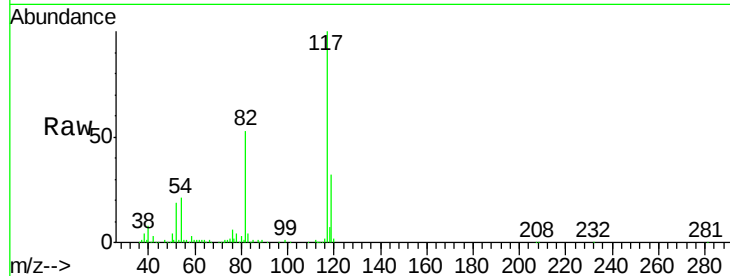




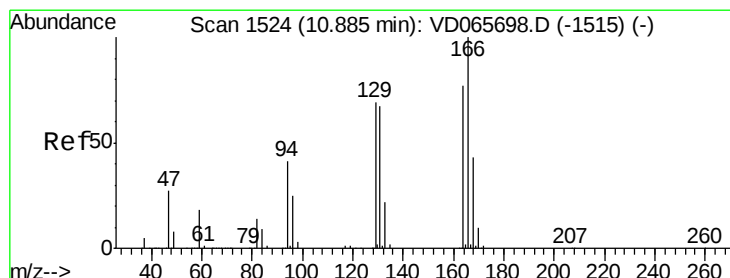
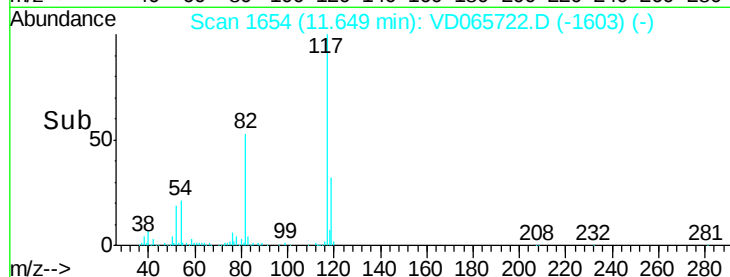
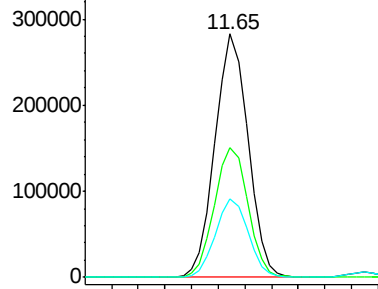
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:117 Resp: 485254
Ion Ratio Lower Upper
117 100
82 53.2 44.9 67.3
119 32.1 25.4 38.2

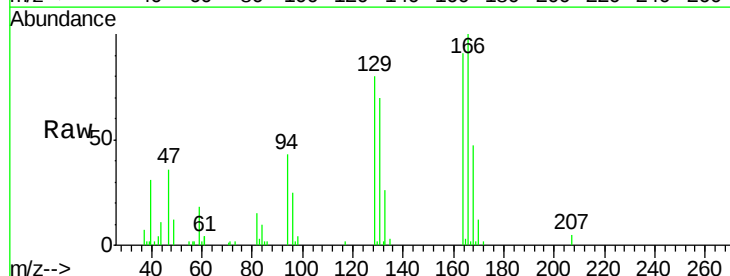


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

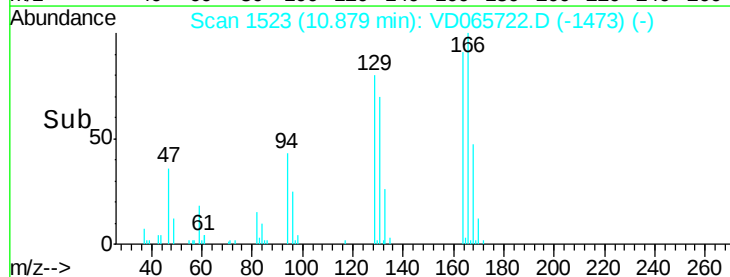
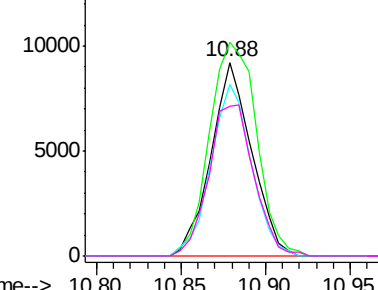


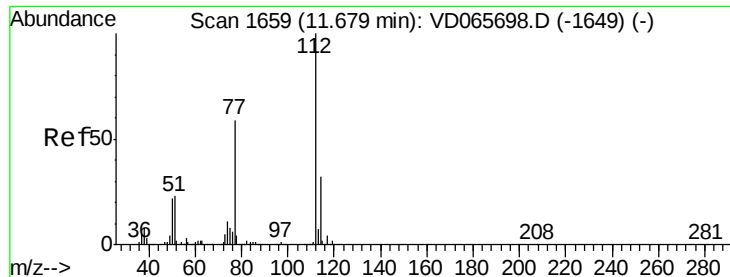
#64
Tetrachloroethene
Concen: 4.479 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.01 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion:164 Resp: 15467
Ion Ratio Lower Upper
164 100
166 110.3 104.3 156.5
129 88.8 71.9 107.9
131 77.1 70.2 105.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

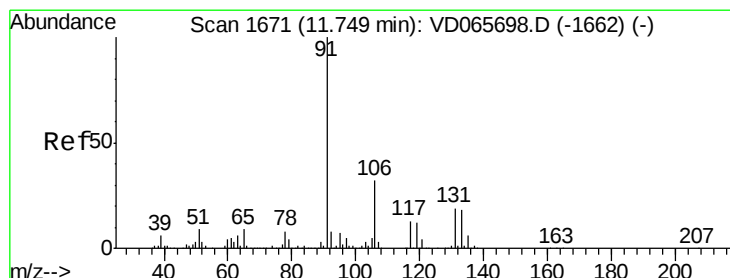
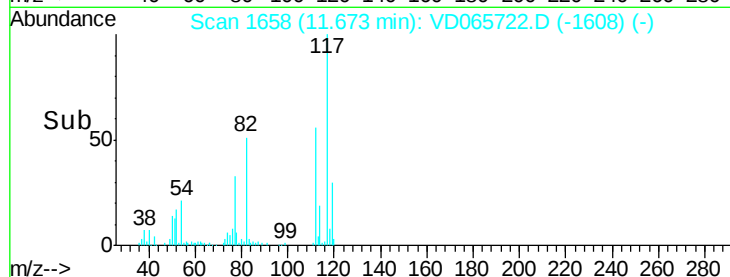
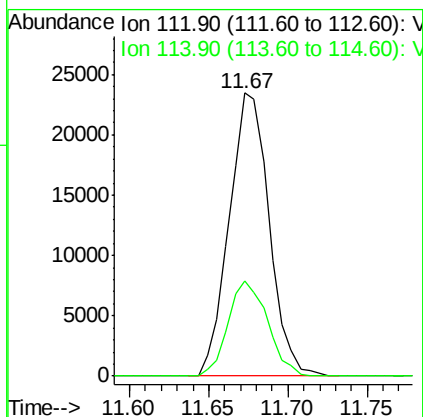
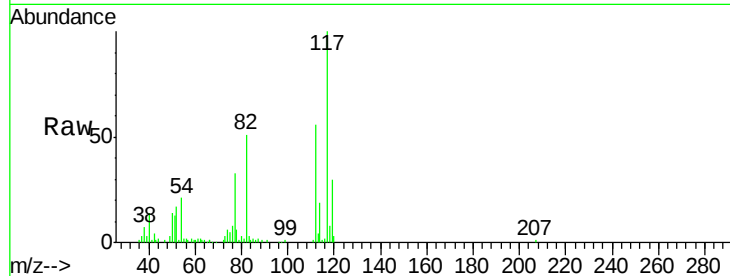




#65
Chlorobenzene
Concen: 4.186 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

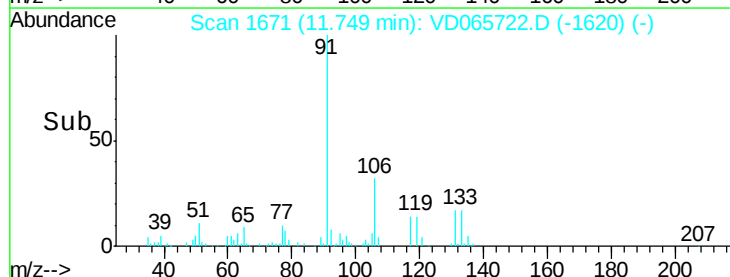
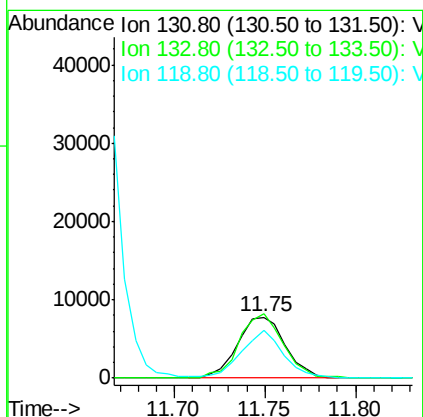
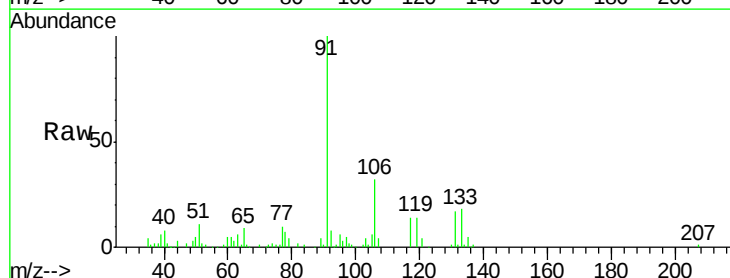
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

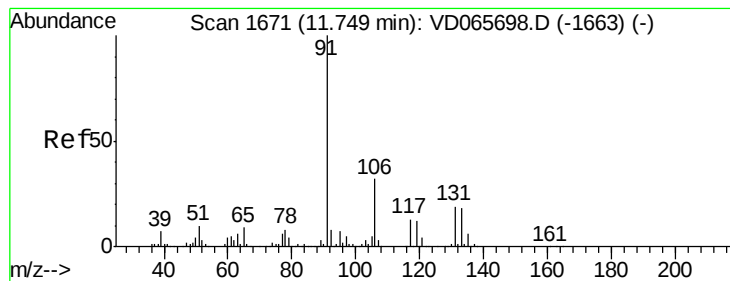
Tot Ion:112 Resp: 40926
Ion Ratio Lower Upper
112 100
114 33.8 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 3.905 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion:131 Resp: 14234
Ion Ratio Lower Upper
131 100
133 97.9 47.3 141.8
119 69.2 31.8 95.4





#67

Ethyl Benzene

Concen: 4.076 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

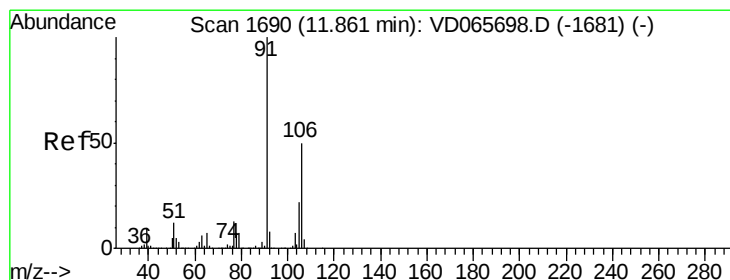
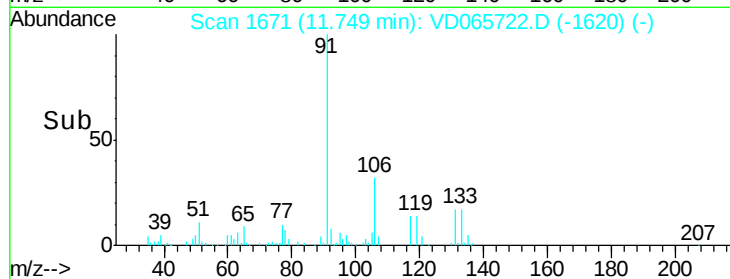
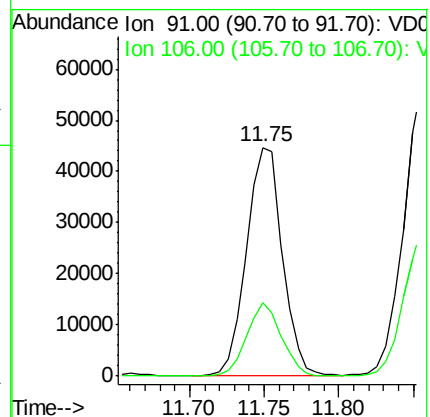
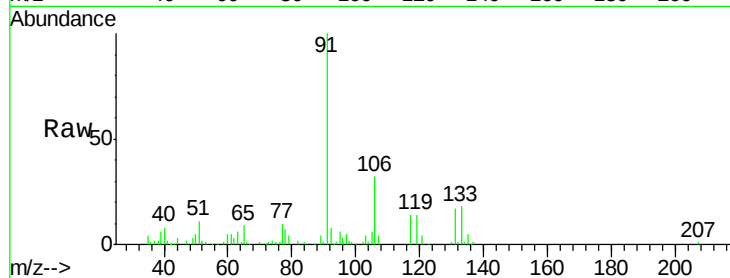
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 74342

Ion Ratio Lower Upper

91 100

106 32.4 25.2 37.8



#68

m/p-Xylenes

Concen: 8.314 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VD065722.D

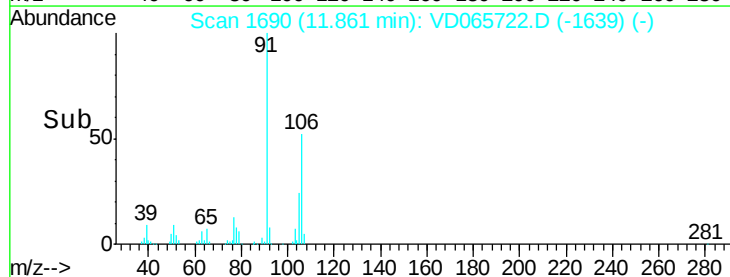
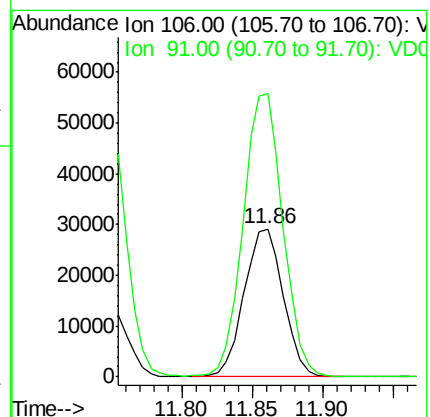
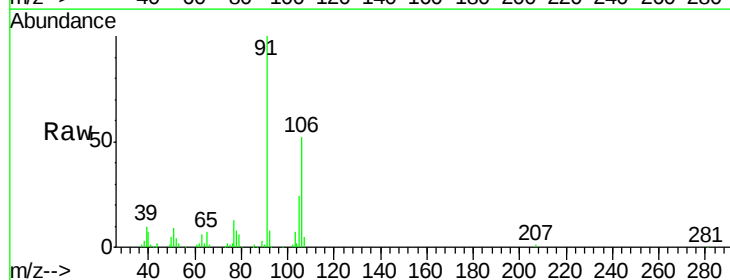
Acq: 08 May 2020 13:50

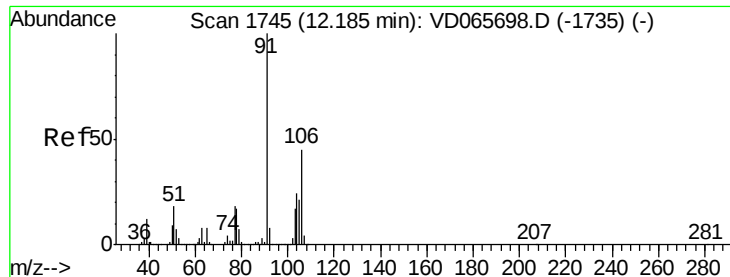
Tgt Ion: 106 Resp: 56528

Ion Ratio Lower Upper

106 100

91 194.2 163.1 244.7

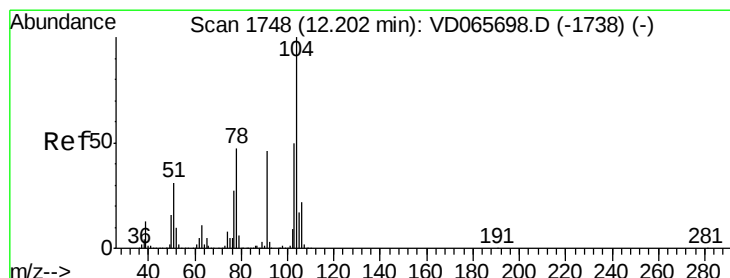
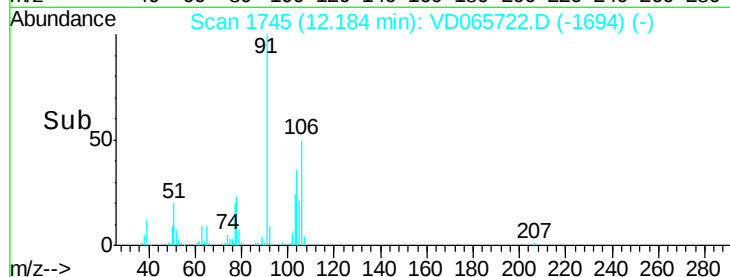
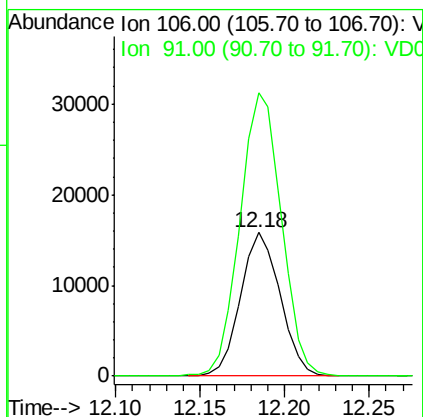
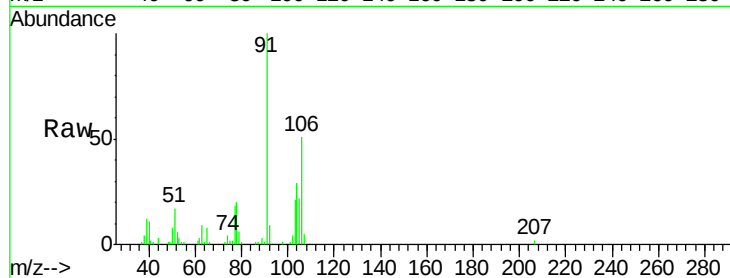




#69
o-Xylene
Concen: 4.067 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

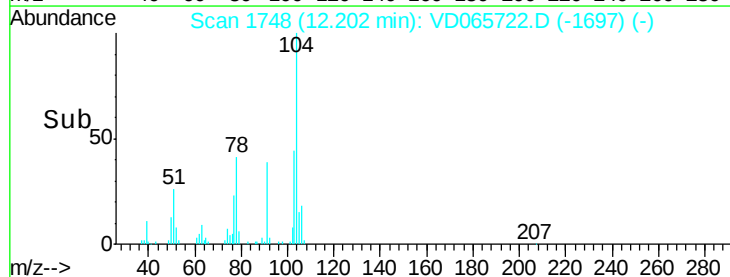
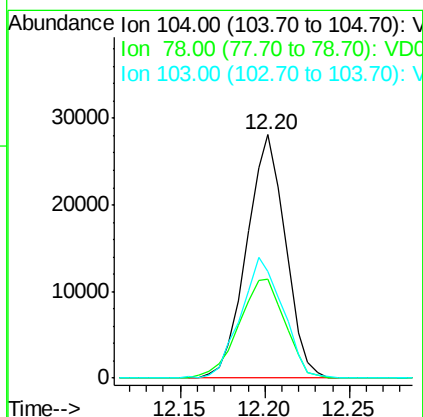
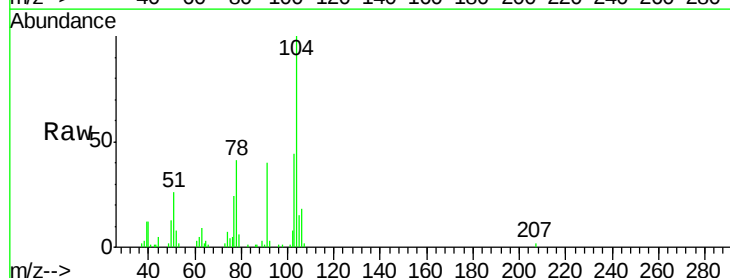
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

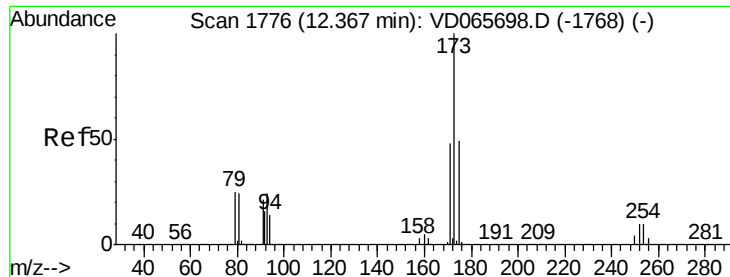
Tot Ion:106 Resp: 25806
Ion Ratio Lower Upper
106 100
91 206.4 107.9 323.7



#70
Styrene
Concen: 4.120 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065722.D
Acq: 08 May 2020 13:50

Tgt Ion:104 Resp: 44941
Ion Ratio Lower Upper
104 100
78 48.3 41.0 61.4
103 53.7 43.8 65.6





#71

Bromoform

Concen: 4.010 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

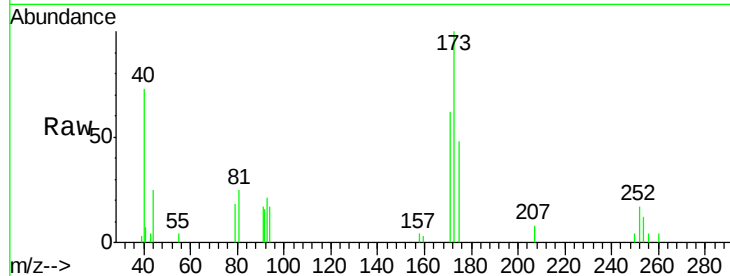
Tot Ion:173 Resp: 8225

Ion Ratio Lower Upper

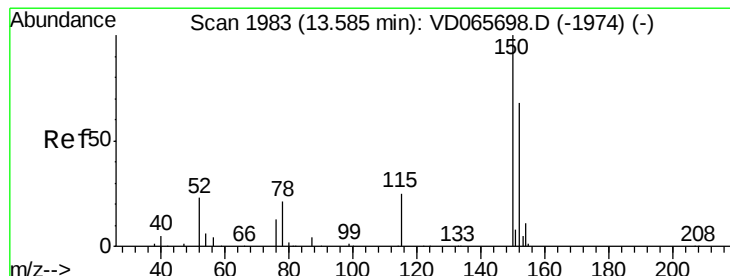
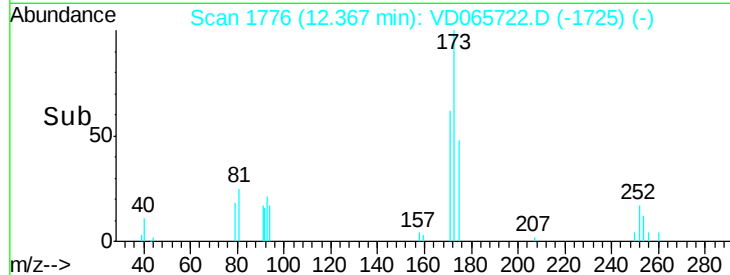
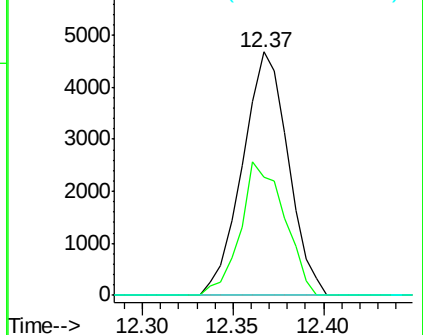
173 100

175 52.3 24.5 73.5

254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

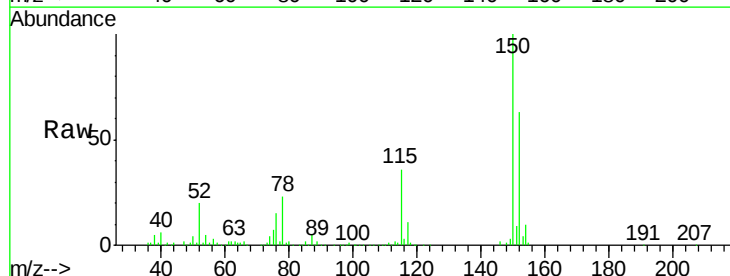
Tgt Ion:152 Resp: 240588

Ion Ratio Lower Upper

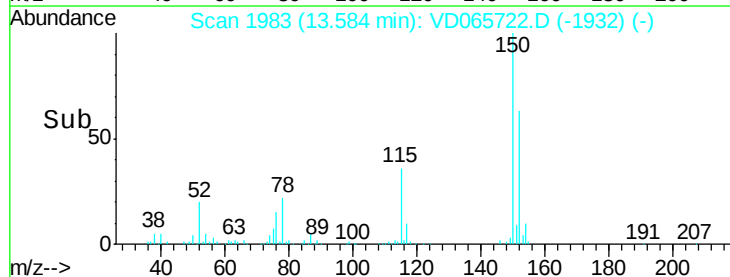
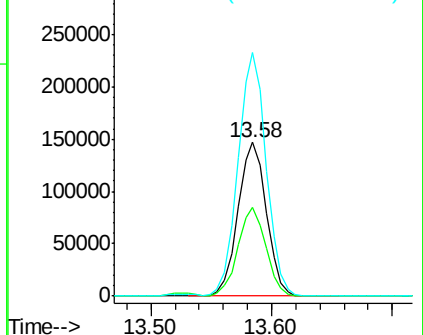
152 100

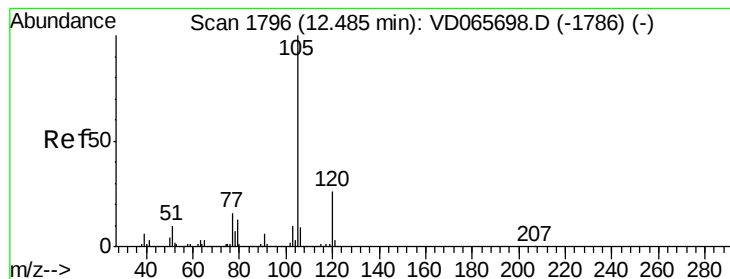
115 56.7 29.5 88.5

150 157.1 0.0 346.8



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





#73

Isopropylbenzene

Concen: 3.974 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

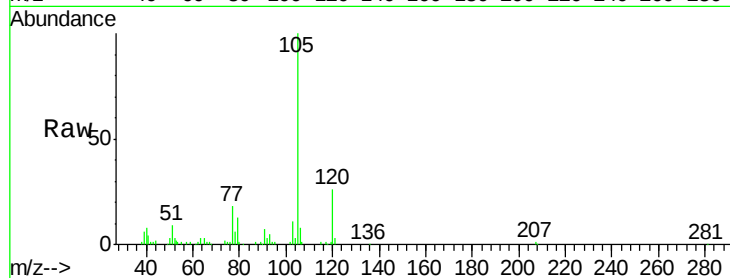
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 72447

Ion Ratio Lower Upper

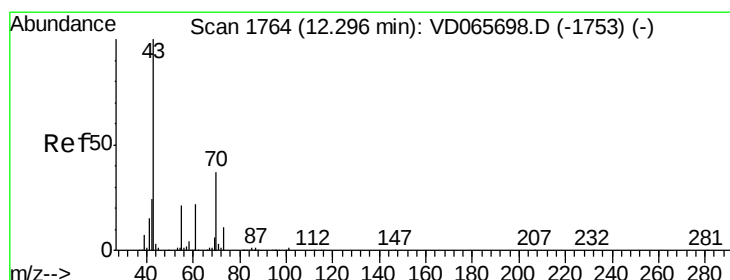
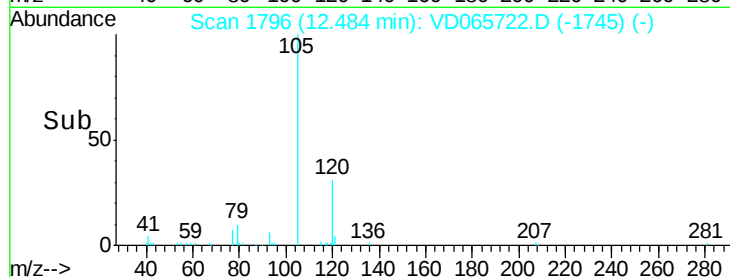
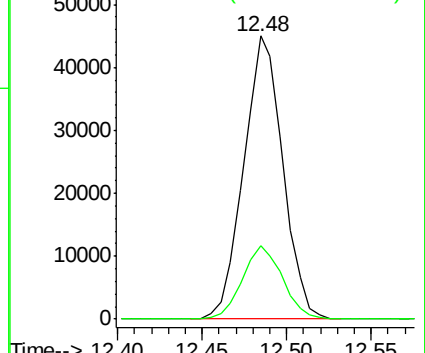
105 100

120 26.6 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.203 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Tgt Ion: 43 Resp: 16668

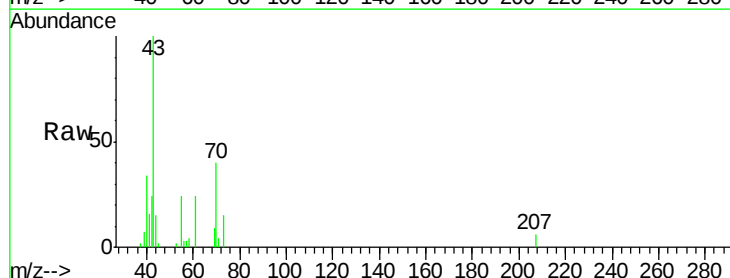
Ion Ratio Lower Upper

43 100

70 42.7 29.3 43.9

55 25.9 16.4 24.6#

61 24.1 18.0 27.0

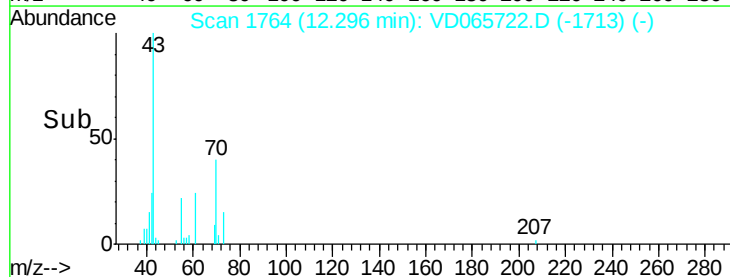
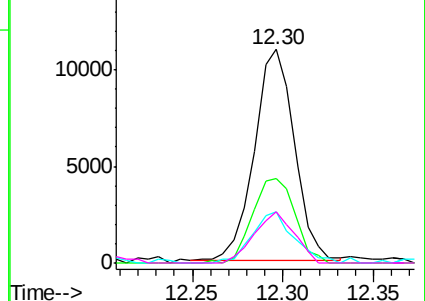


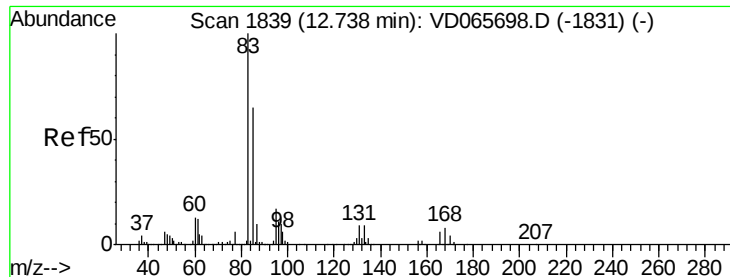
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 3.835 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

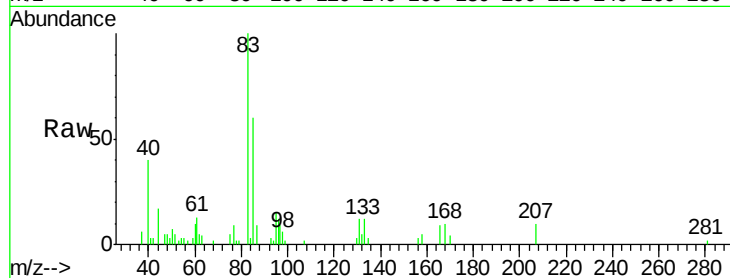
Tot Ion: 83 Resp: 11724

Ion Ratio Lower Upper

83 100

131 10.6 5.5 16.7

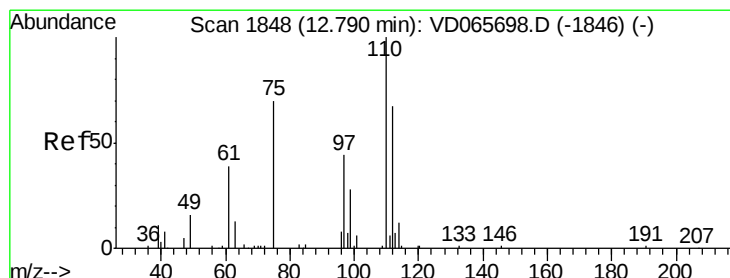
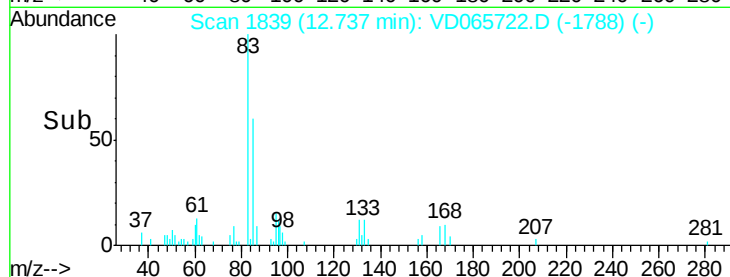
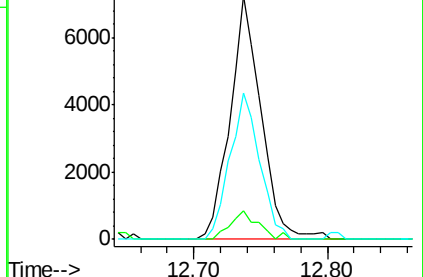
85 57.8 31.9 95.9



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: 2.881 ug/l m

RT: 12.79 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VD065722.D

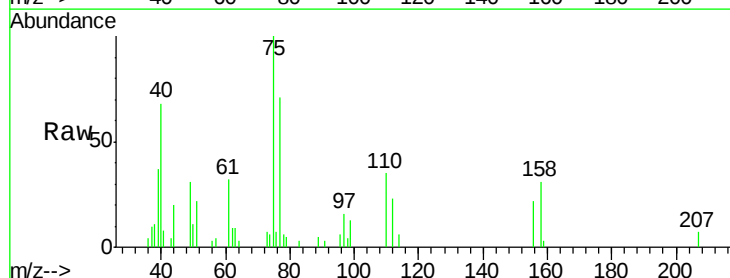
Acq: 08 May 2020 13:50

Tgt Ion: 75 Resp: 5854

Ion Ratio Lower Upper

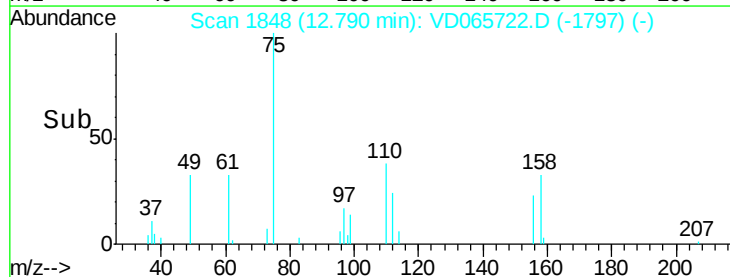
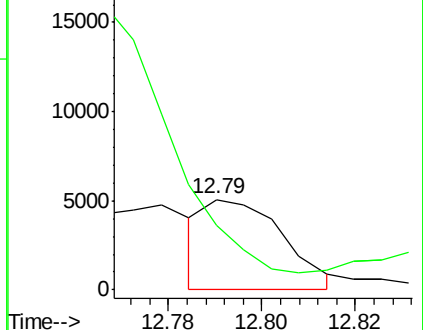
75 100

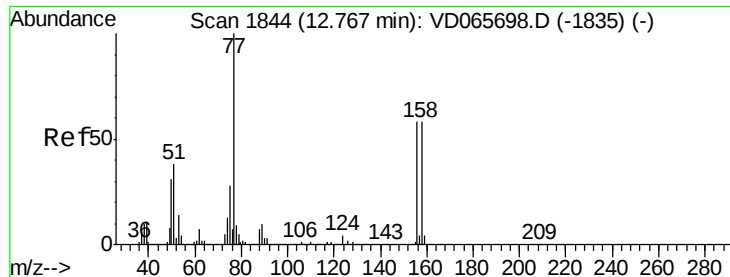
77 499.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 4.233 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

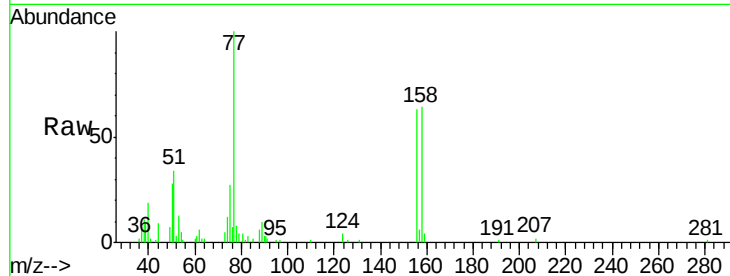
Tot Ion:156 Resp: 17696

Ion Ratio Lower Upper

156 100

77 165.1 92.9 278.7

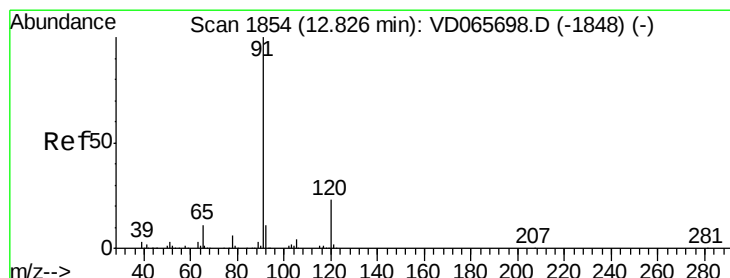
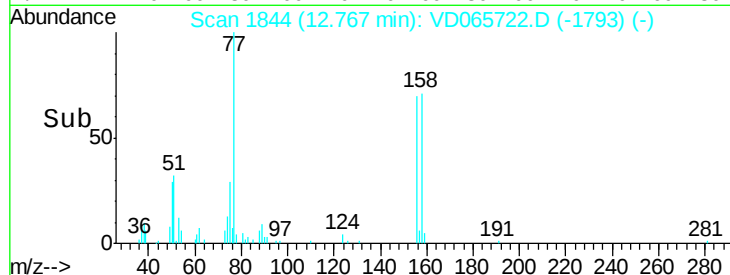
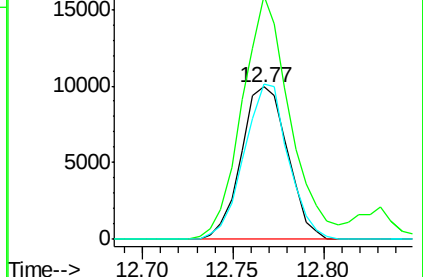
158 97.1 48.9 146.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.824 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065722.D

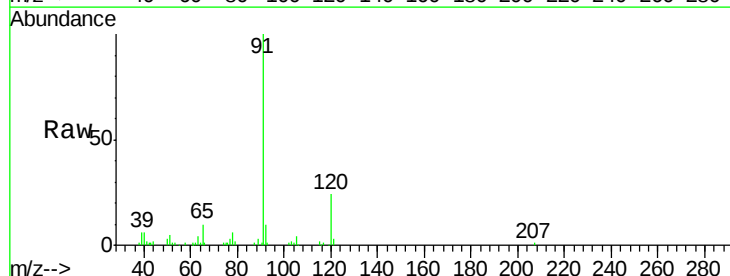
Acq: 08 May 2020 13:50

Tgt Ion: 91 Resp: 82087

Ion Ratio Lower Upper

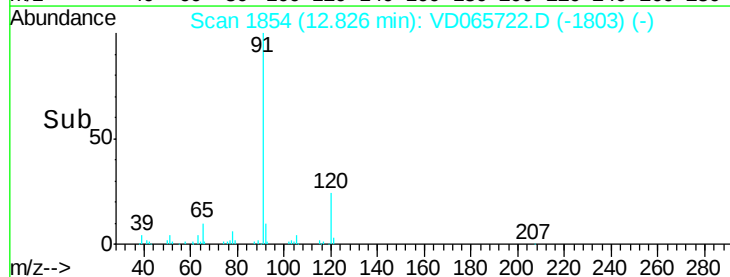
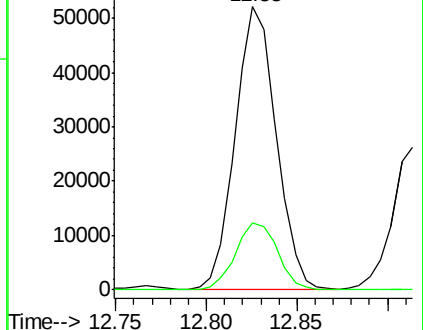
91 100

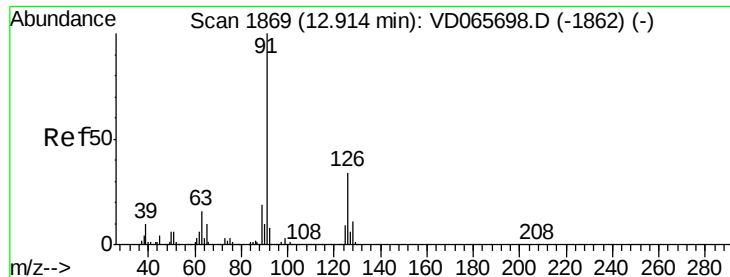
120 24.4 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.721 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

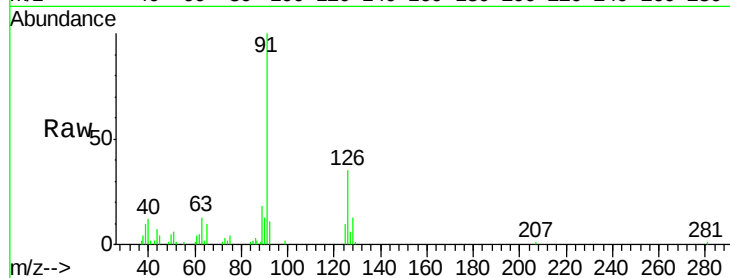
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 45128

Ion Ratio Lower Upper

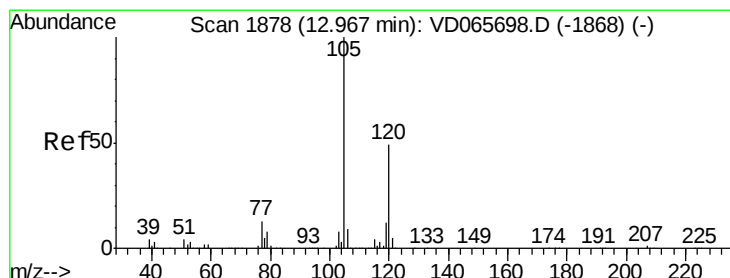
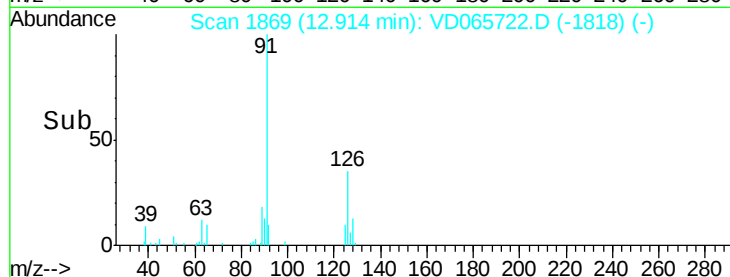
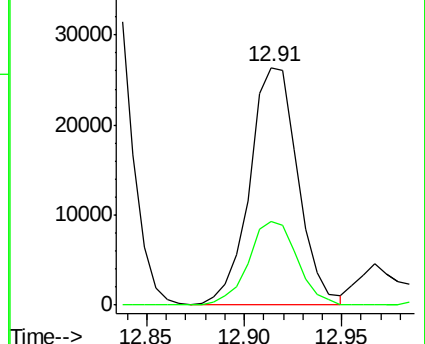
91 100

126 35.4 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.786 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065722.D

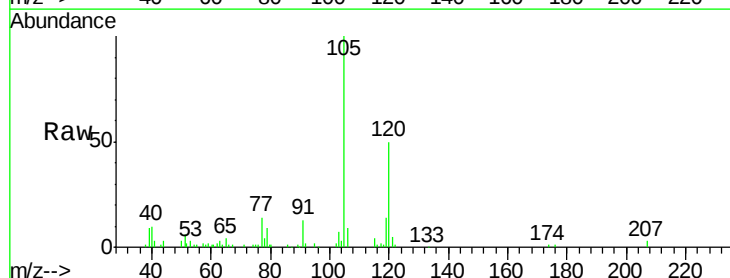
Acq: 08 May 2020 13:50

Tgt Ion:105 Resp: 56657

Ion Ratio Lower Upper

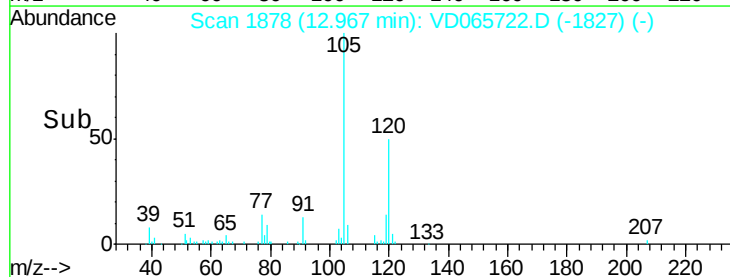
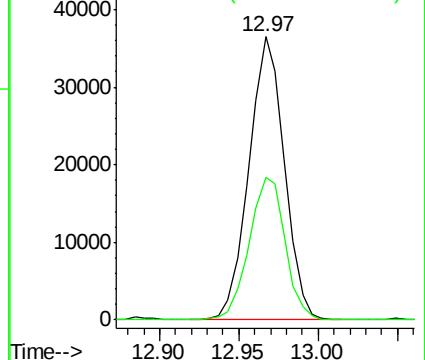
105 100

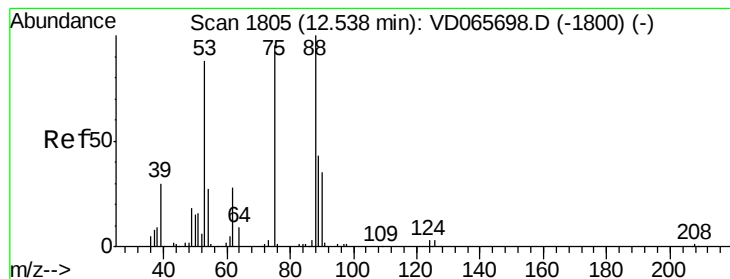
120 51.0 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.421 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

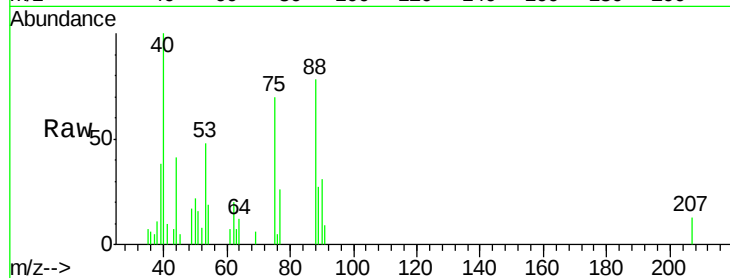
Tot Ion: 75 Resp: 3927

Ion Ratio Lower Upper

75 100

53 89.6 75.8 113.8

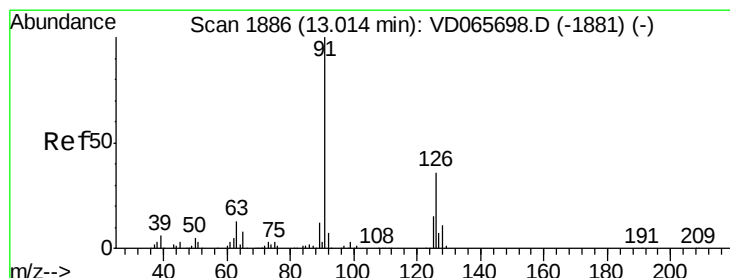
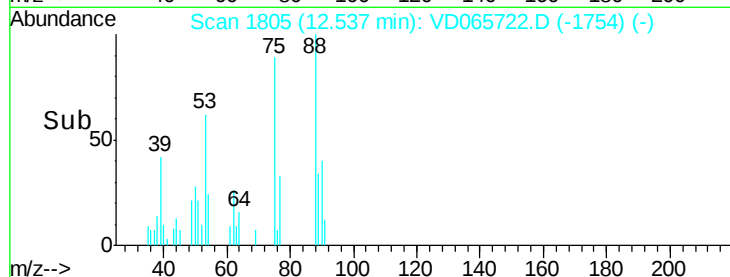
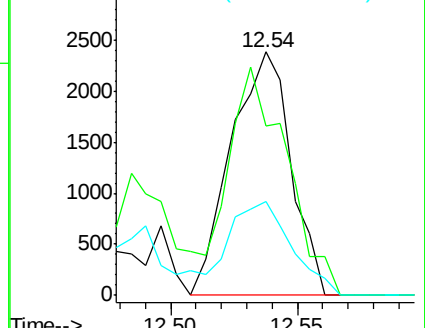
89 39.5 36.2 54.2



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: 3.785 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VD065722.D

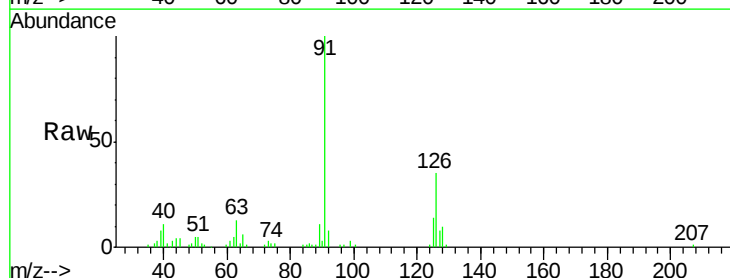
Acq: 08 May 2020 13:50

Tgt Ion: 91 Resp: 48034

Ion Ratio Lower Upper

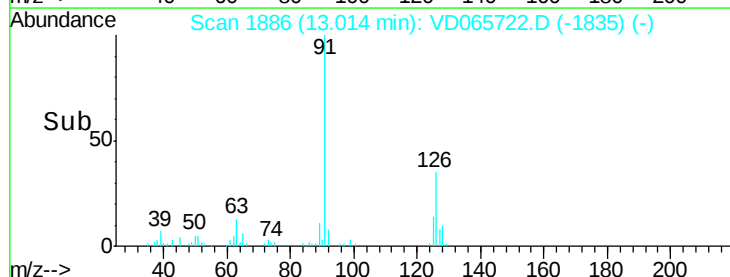
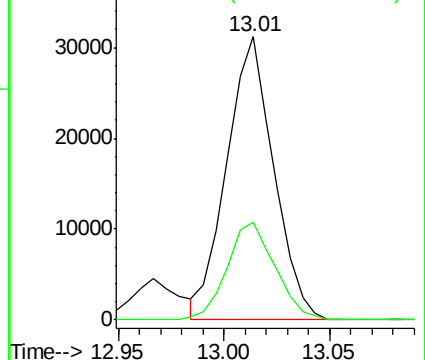
91 100

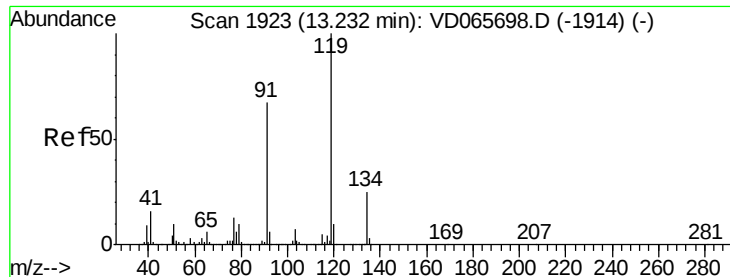
126 35.2 17.1 51.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 3.911 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

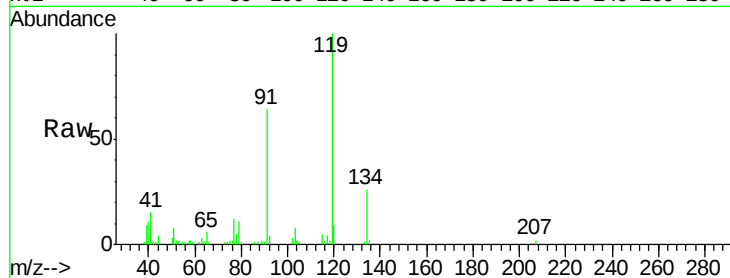
Tot Ion:119 Resp: 49817

Ion Ratio Lower Upper

119 100

91 65.4 33.6 100.8

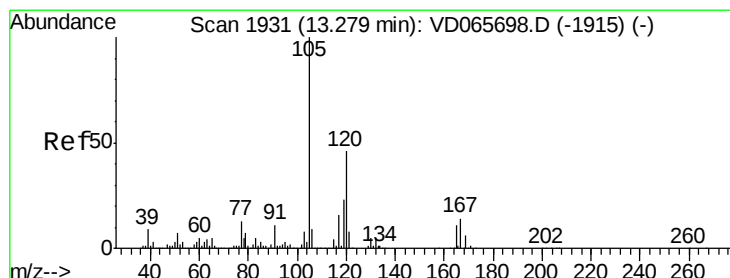
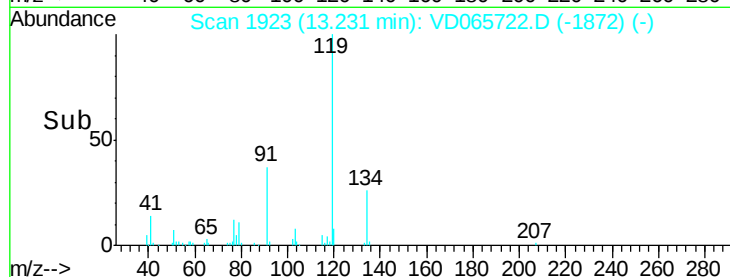
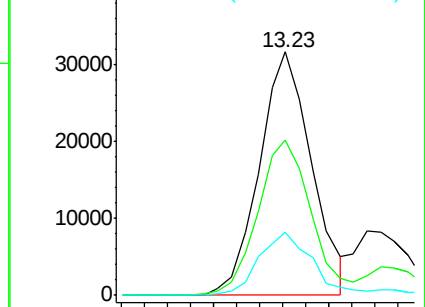
134 26.6 13.6 40.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.777 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VD065722.D

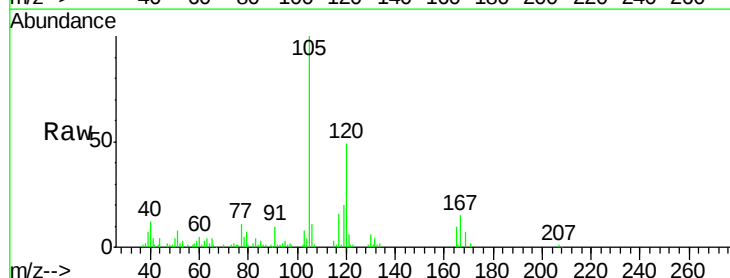
Acq: 08 May 2020 13:50

Tgt Ion:105 Resp: 56309

Ion Ratio Lower Upper

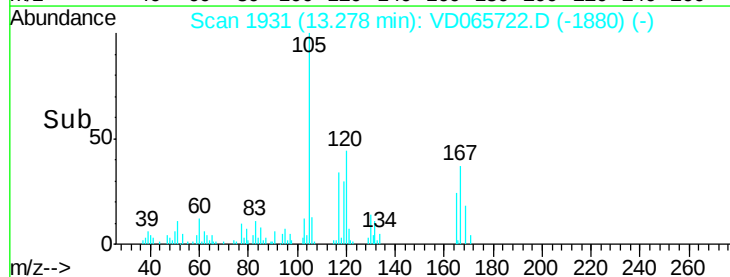
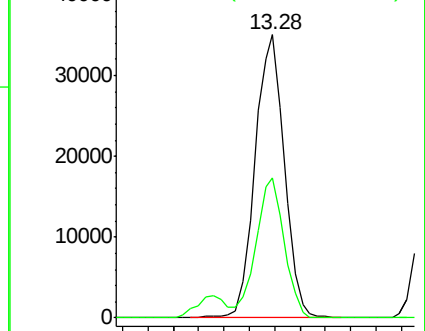
105 100

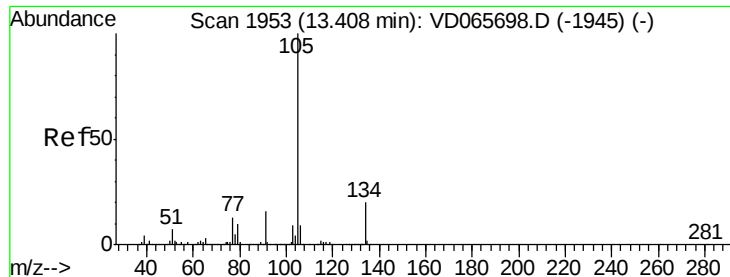
120 47.3 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3.881 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

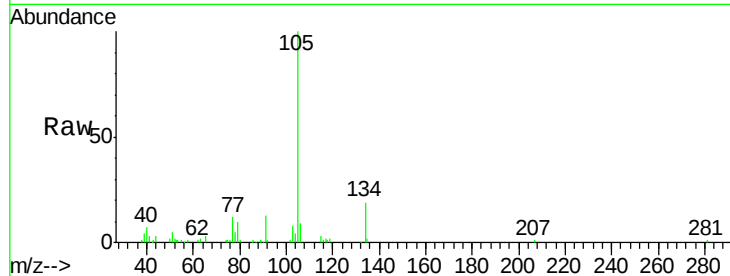
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 69349

Ion Ratio Lower Upper

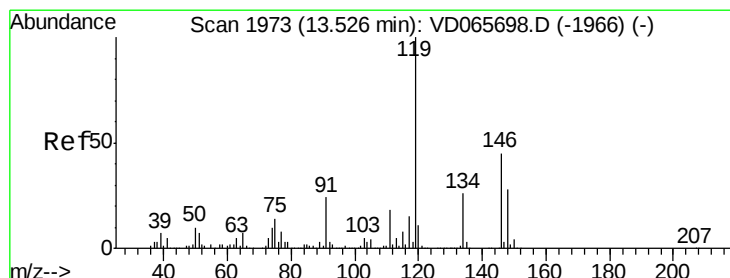
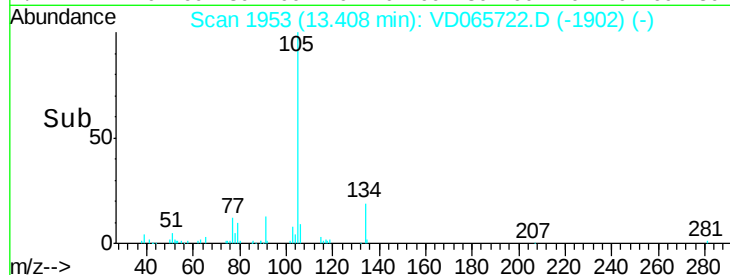
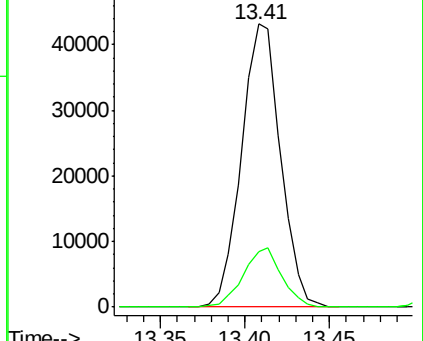
105 100

134 20.6 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.888 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

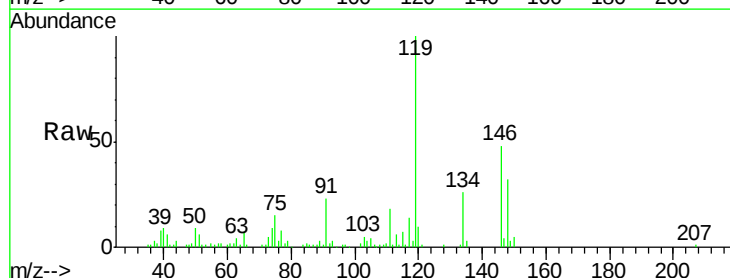
Tgt Ion:119 Resp: 63315

Ion Ratio Lower Upper

119 100

134 28.2 13.2 39.6

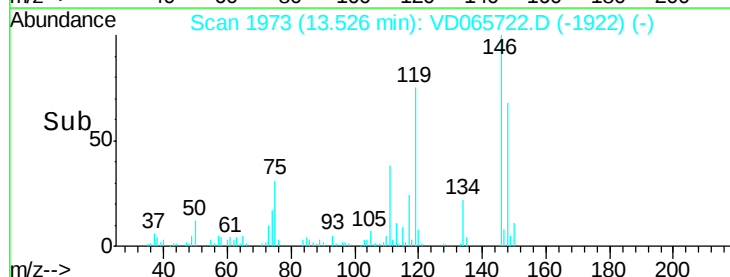
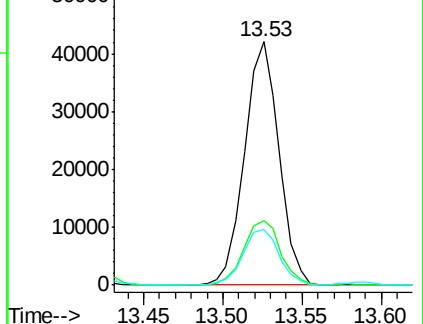
91 24.3 12.0 36.1

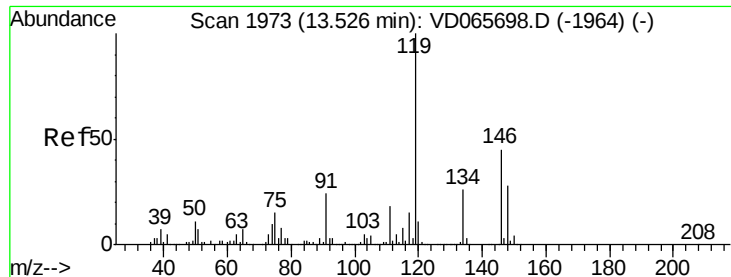


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 4.059 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

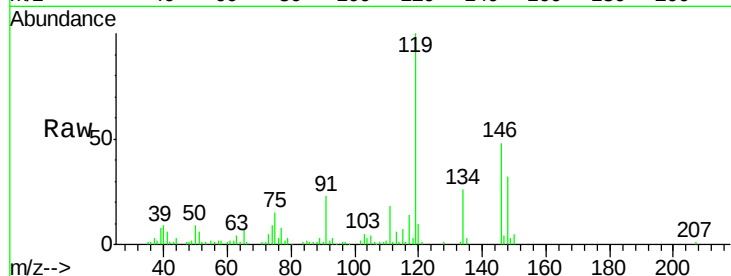
Tot Ion:146 Resp: 31888

Ion Ratio Lower Upper

146 100

111 39.1 19.6 58.8

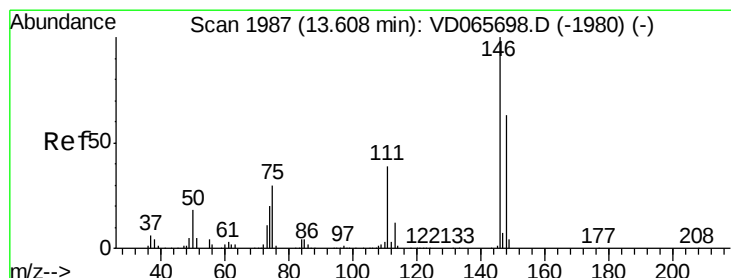
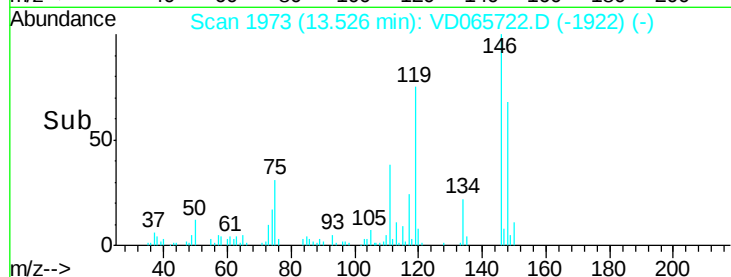
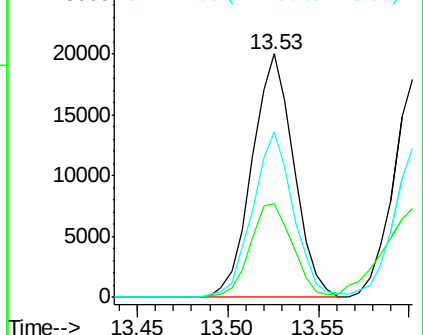
148 66.9 31.9 95.7



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



#88

1,4-Dichlorobenzene

Concen: 3.996 ug/l

RT: 13.60 min Scan# 1986

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

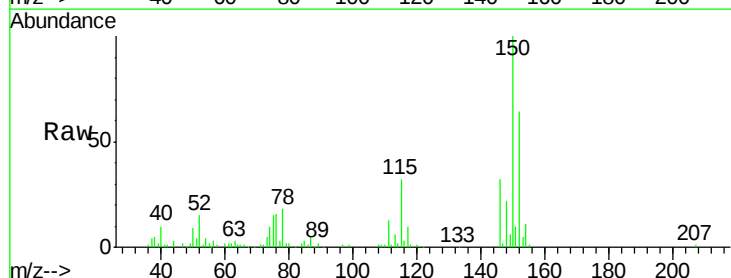
Tgt Ion:146 Resp: 30973

Ion Ratio Lower Upper

146 100

111 47.4 19.6 58.7

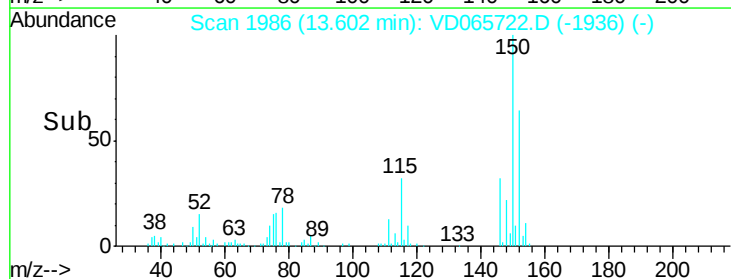
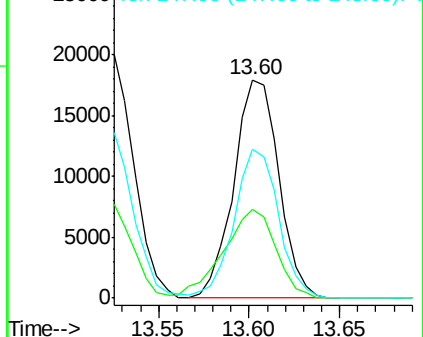
148 67.4 31.9 95.5

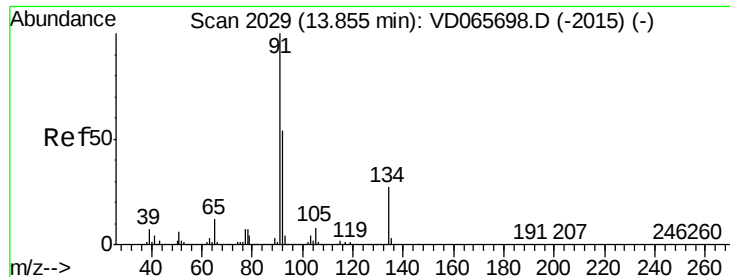


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 3.814 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleID :

MDL-SOIL-03-QT2-2020DL

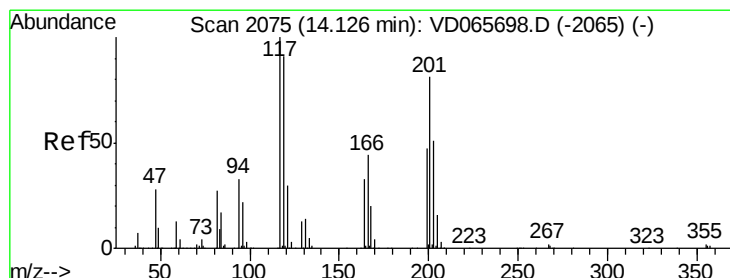
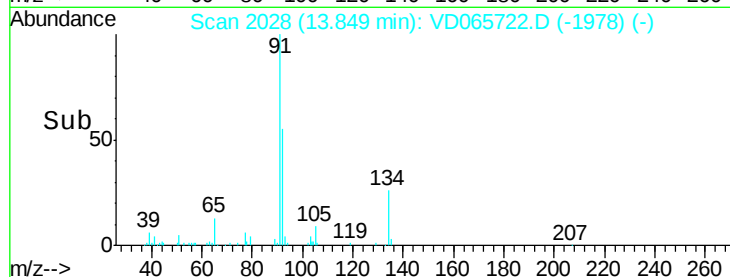
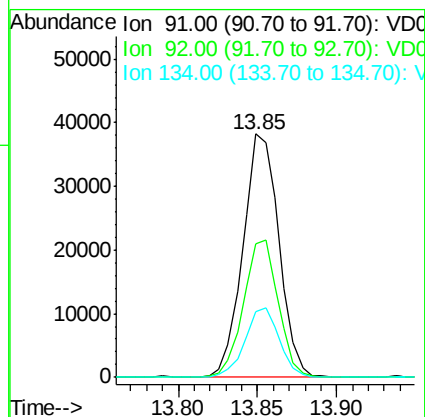
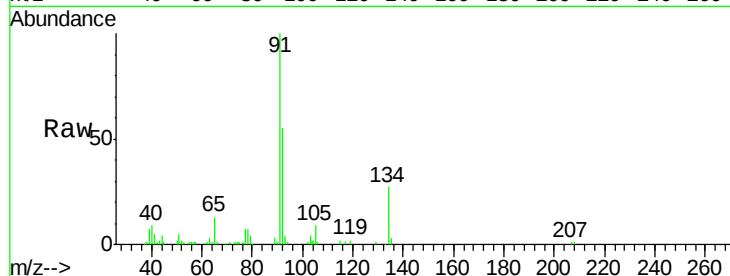
Tot Ion: 91 Resp: 60177

Ion Ratio Lower Upper

91 100

92 54.6 27.4 82.0

134 27.1 13.3 39.8



#90

Hexachloroethane

Concen: 3.826 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. -0.01 min

Lab File: VD065722.D

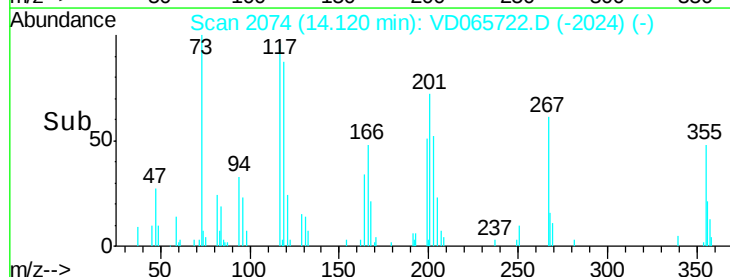
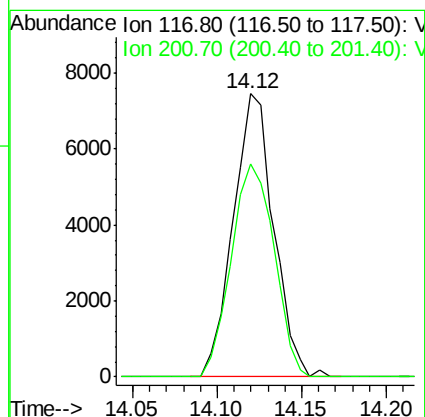
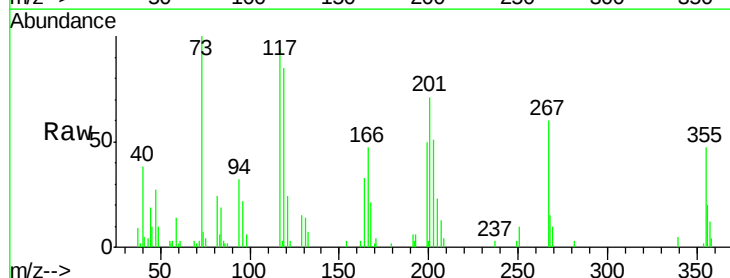
Acq: 08 May 2020 13:50

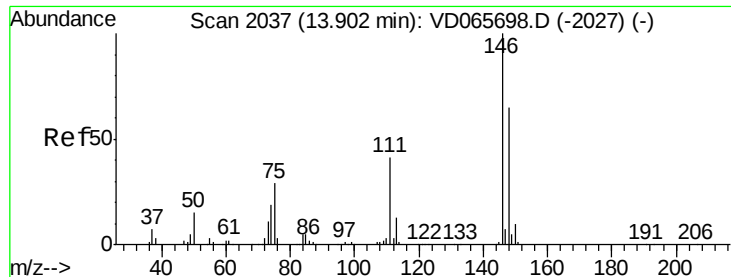
Tgt Ion: 117 Resp: 12408

Ion Ratio Lower Upper

117 100

201 79.7 39.1 117.2

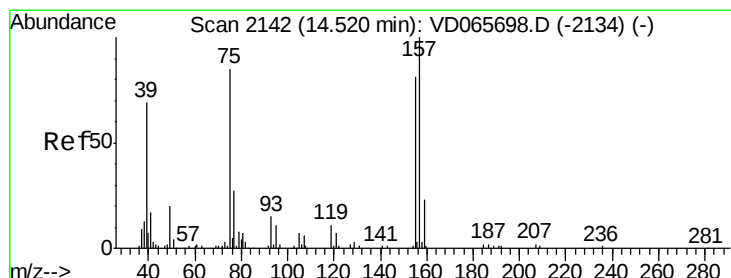
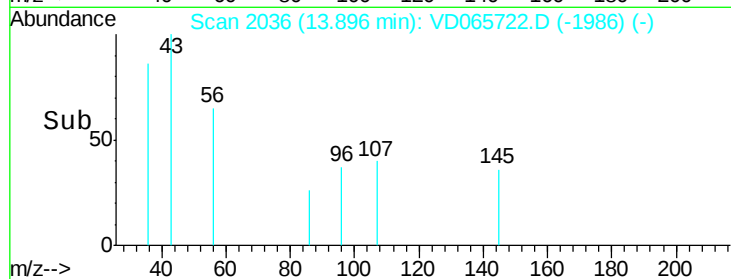
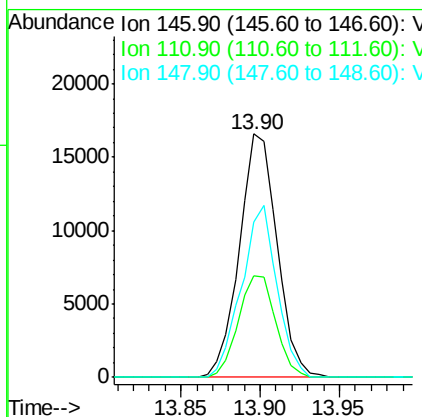
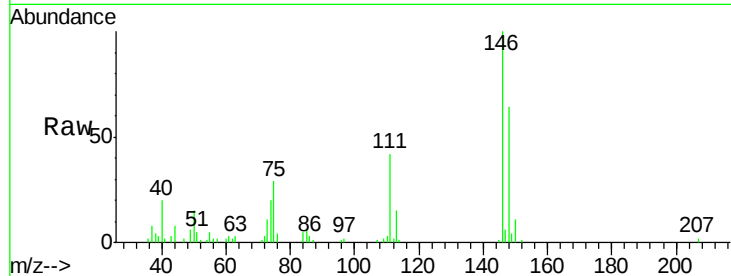




#91
 1,2-Dichlorobenzene
 Concen: 4.040 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

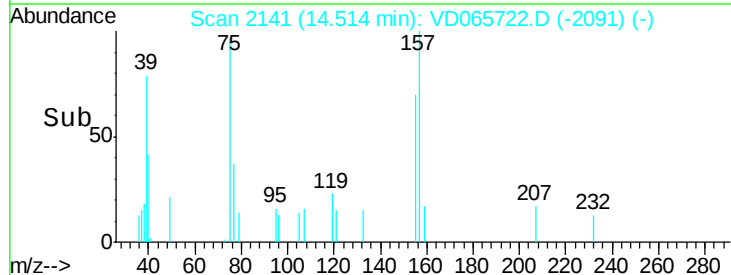
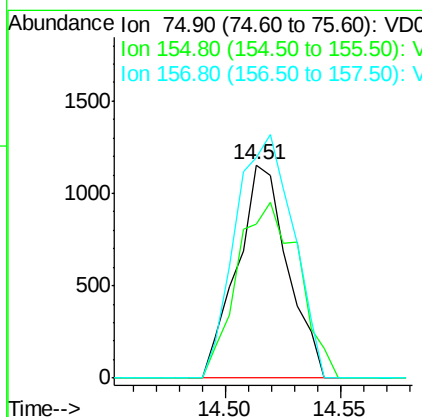
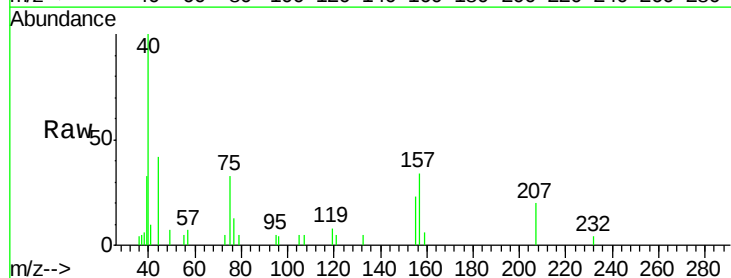
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

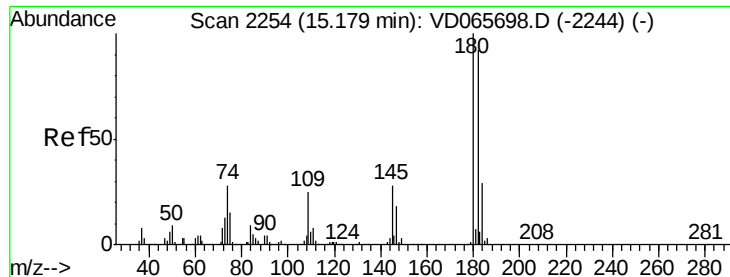
Tot Ion:146 Resp: 27389
 Ion Ratio Lower Upper
 146 100
 111 41.1 20.3 61.0
 148 66.3 31.9 95.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.427 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion: 75 Resp: 1761
 Ion Ratio Lower Upper
 75 100
 155 100.0 43.5 130.5
 157 130.3 54.5 163.6

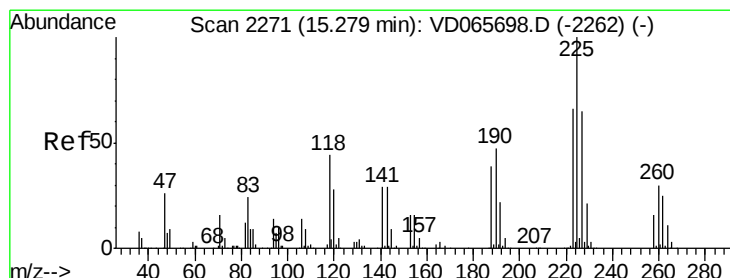
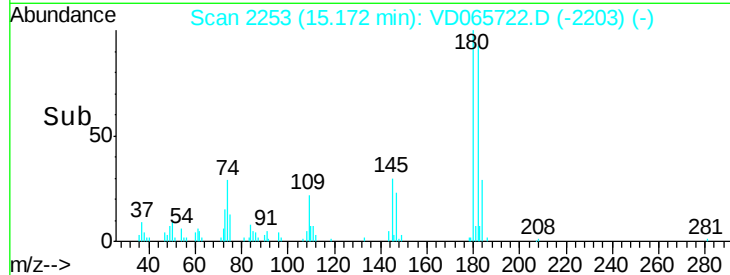
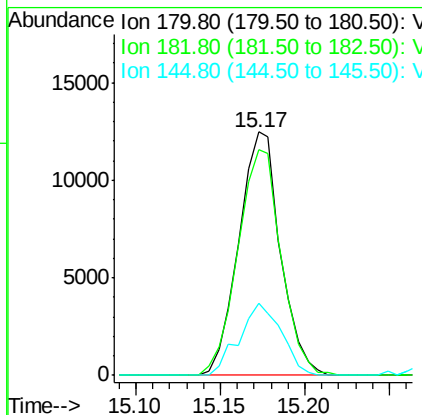
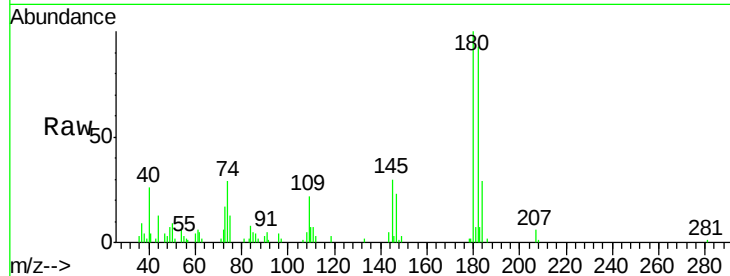




#93
 1,2,4-Trichlorobenzene
 Concen: 4.195 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

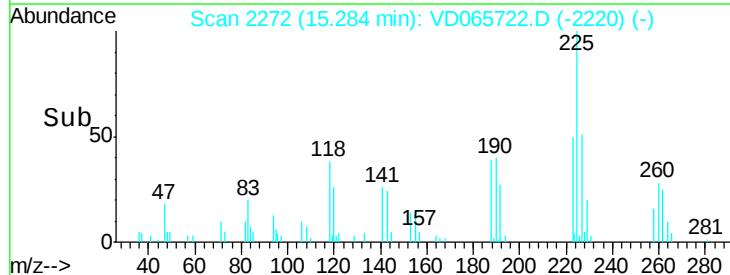
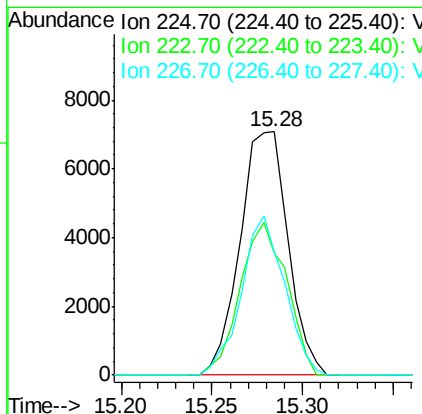
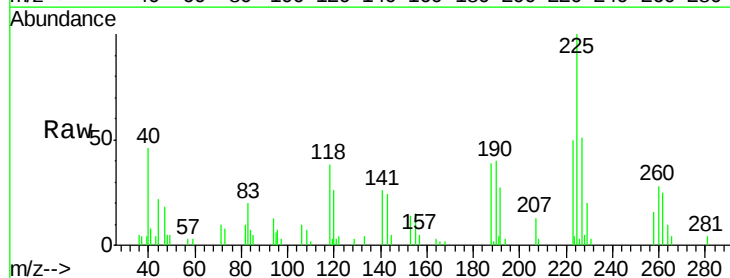
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

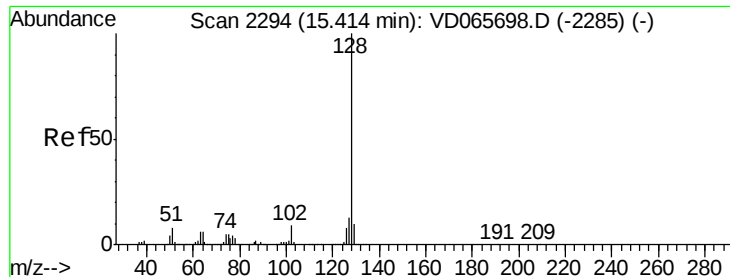
Tot Ion:180 Resp: 21336
 Ion Ratio Lower Upper
 180 100
 182 96.3 47.0 141.0
 145 30.3 14.8 44.3



#94
 Hexachlorobutadiene
 Concen: 4.434 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VD065722.D
 Acq: 08 May 2020 13:50

Tgt Ion:225 Resp: 13070
 Ion Ratio Lower Upper
 225 100
 223 60.5 31.8 95.3
 227 58.8 31.6 94.8





#95

Naphthalene

Concen: 3.900 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

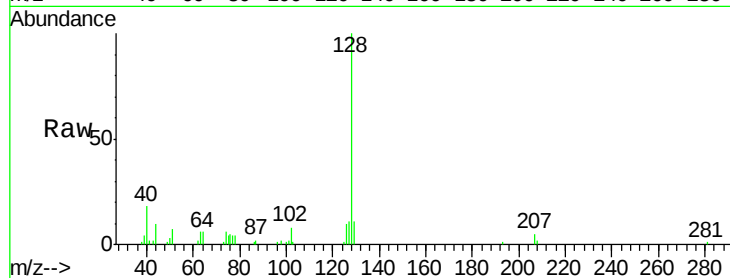
Tot Ion:128 Resp: 34868

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

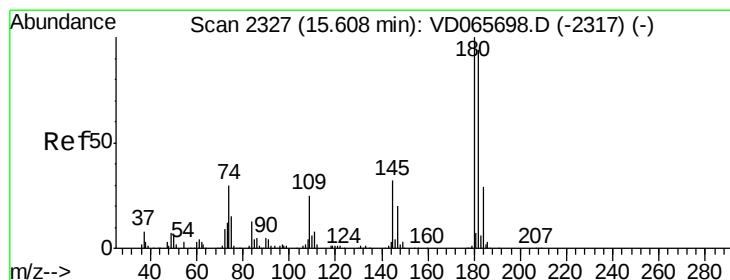
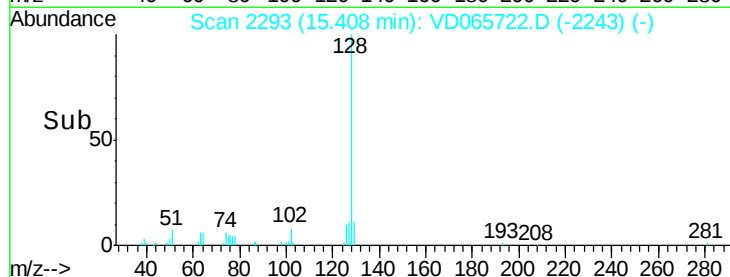
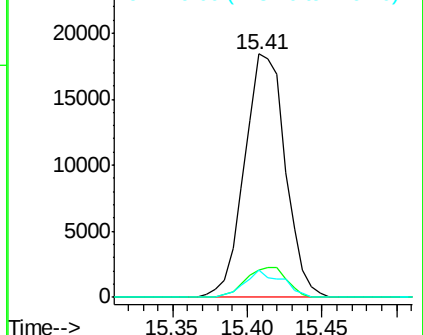
129 10.2 9.0 13.4



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: 3.882 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VD065722.D

Acq: 08 May 2020 13:50

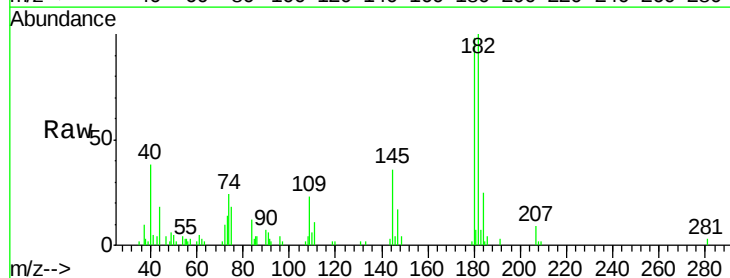
Tgt Ion:180 Resp: 16795

Ion Ratio Lower Upper

180 100

182 97.4 46.9 140.6

145 34.2 16.0 47.9



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

