

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070720\
 Data File : VD065930.D
 Acq On : 07 Jul 2020 19:32
 Operator : VA/SY
 Sample : L3216-01 2.5PPBLOD
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Quant Time: Jul 08 09:55:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 09:45:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	387307	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	613444	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	567032	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271798	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	182881	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
35) Dibromofluoromethane	7.91	113	191581	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	
50) Toluene-d8	10.34	98	695269	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.64	95	244024	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.99	85	11326	3.289	ug/l	93
3) Chloromethane	2.21	50	10288	3.014	ug/l	96
4) Vinyl Chloride	2.35	62	8858	2.826	ug/l	90
5) Bromomethane	2.77	94	6073	3.059	ug/l	100
6) Chloroethane	2.93	64	5726	3.056	ug/l	99
7) Trichlorofluoromethane	3.28	101	23422	3.487	ug/l	99
8) Diethyl Ether	3.70	74	5901	3.202	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.10	101	13384	3.331	ug/l	96
10) Methyl Iodide	4.30	142	10437	2.735	ug/l	96
11) Tert butyl alcohol	5.20	59	5859	23.802	ug/l #	79
12) 1,1-Dichloroethene	4.08	96	11975	3.190	ug/l	82
13) Acrolein	3.93	56	3250	16.048	ug/l #	64
14) Allyl chloride	4.73	41	19104	3.003	ug/l #	25
15) Acrylonitrile	5.42	53	12343	15.298	ug/l	99
16) Acetone	4.16	43	12322	15.318	ug/l	99
17) Carbon Disulfide	4.41	76	36842	3.080	ug/l	99
18) Methyl Acetate	4.73	43	7065	3.747	ug/l	96
19) Methyl tert-butyl Ether	5.47	73	23783	2.993	ug/l #	89
20) Methylene Chloride	4.96	84	54131	9.473	ug/l	93
21) trans-1,2-Dichloroethene	5.47	96	13524	3.202	ug/l	99
22) Diisopropyl ether	6.37	45	34365	2.875	ug/l	94
23) Vinyl Acetate	6.30	43	87080	12.762	ug/l	95
24) 1,1-Dichloroethane	6.27	63	21615	3.032	ug/l	96
25) 2-Butanone	7.21	43	18258	17.177	ug/l	91
26) 2,2-Dichloropropane	7.21	77	21380	3.429	ug/l	88
27) cis-1,2-Dichloroethene	7.21	96	13722	3.024	ug/l	91
28) Bromochloromethane	7.54	49	7342	2.727	ug/l #	11
29) Tetrahydrofuran	7.57	42	9300	13.759	ug/l	92
30) Chloroform	7.71	83	21396	2.961	ug/l	98
31) Cyclohexane	7.98	56	26897	3.835	ug/l #	55
32) 1,1,1-Trichloroethane	7.90	97	19518	2.960	ug/l	97
36) 1,1-Dichloropropene	8.11	75	18844	3.110	ug/l	94
38) Carbon Tetrachloride	8.10	117	19186	2.954	ug/l #	83
39) Methylcyclohexane	9.36	83	21719	2.920	ug/l #	90

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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)
40) Benzene	8.35	78	49038	2.930	ug/l	96
41) Methacrylonitrile	7.55	41	6941	4.709	ug/l #	49
42) 1,2-Dichloroethane	8.43	62	14174	2.989	ug/l	95
43) Isopropyl Acetate	8.46	43	13826	2.926	ug/l #	59
44) Trichloroethene	9.12	130	14430	2.934	ug/l	92
45) 1,2-Dichloropropane	9.39	63	12713	3.060	ug/l	99
46) Dibromomethane	9.47	93	6167	2.851	ug/l	96
47) Bromodichloromethane	9.66	83	16890	2.911	ug/l #	96
48) Methyl methacrylate	9.46	41	6697	2.815	ug/l #	90
49) 1,4-Dioxane	9.47	88	1283	49.925	ug/l #	78
51) 4-Methyl-2-Pentanone	10.23	43	32402	13.564	ug/l	98
52) Toluene	10.40	92	31186	2.929	ug/l	98
53) t-1,3-Dichloropropene	10.62	75	15411	2.825	ug/l	90
54) cis-1,3-Dichloropropene	10.09	75	17526	2.659	ug/l	96
55) 1,1,2-Trichloroethane	10.80	97	9021	3.027	ug/l #	91
56) Ethyl methacrylate	10.66	69	9702	2.666	ug/l	97
57) 1,3-Dichloropropane	10.95	76	14411	2.765	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.94	63	25933	14.712	ug/l	97
59) 2-Hexanone	10.99	43	21476	13.072	ug/l	99
60) Dibromochloromethane	11.14	129	12174	2.990	ug/l	95
61) 1,2-Dibromoethane	11.25	107	8023	2.700	ug/l	91
64) Tetrachloroethene	10.88	164	14149	3.431	ug/l	91
65) Chlorobenzene	11.67	112	34269	2.999	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.74	131	12392	2.899	ug/l	95
67) Ethyl Benzene	11.75	91	60083	2.960	ug/l	100
68) m/p-Xylenes	11.86	106	44723	5.799	ug/l	96
69) o-Xylene	12.18	106	19201	2.733	ug/l	98
70) Stvrene	12.20	104	33504	2.763	ug/l	98
71) Bromoform	12.36	173	7010	2.899	ug/l #	94
73) Isopropylbenzene	12.48	105	54018	2.848	ug/l	98
74) N-amyl acetate	12.29	43	11390	2.676	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	9690	3.077	ug/l	97
76) 1,2,3-Trichloropropane	12.78	75	12390	5.434	ug/l #	100
77) Bromobenzene	12.76	156	14722	3.200	ug/l	95
78) n-propylbenzene	12.82	91	67316	3.027	ug/l	98
79) 2-Chlorotoluene	12.91	91	36531	2.896	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	46472	2.995	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.64	75	122529	115.472	ug/l #	12
82) 4-Chlorotoluene	13.01	91	41135	3.108	ug/l	97
83) tert-Butylbenzene	13.23	119	37509	2.838	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	43860	2.840	ug/l	99
85) sec-Butylbenzene	13.40	105	55401	2.957	ug/l	98
86) p-Isopropyltoluene	13.52	119	49525	2.890	ug/l	100
87) 1,3-Dichlorobenzene	13.52	146	27525	3.197	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	27973	3.257	ug/l	86
89) n-Butylbenzene	13.84	91	46966	2.919	ug/l	98
90) Hexachloroethane	14.11	117	11182	3.236	ug/l	96
91) 1,2-Dichlorobenzene	13.89	146	23054	3.064	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1748	3.319	ug/l	95
93) 1,2,4-Trichlorobenzene	15.17	180	16269	3.034	ug/l	98

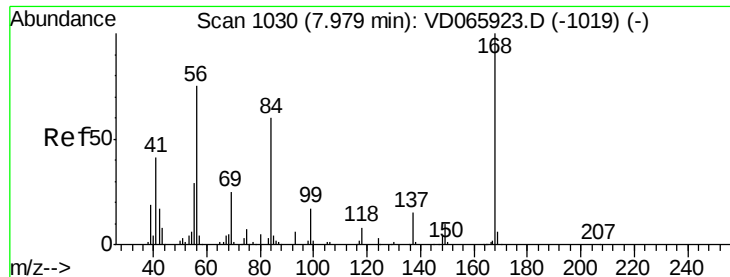
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070720\
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Quant Title : SW846 8260
QLast Update : Wed Jul 08 09:45:47 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.27	225	10186	3.140	ug/l	98
95) Naphthalene	15.40	128	27264	3.031	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	15994	3.458	ug/l	97

(#) = 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. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

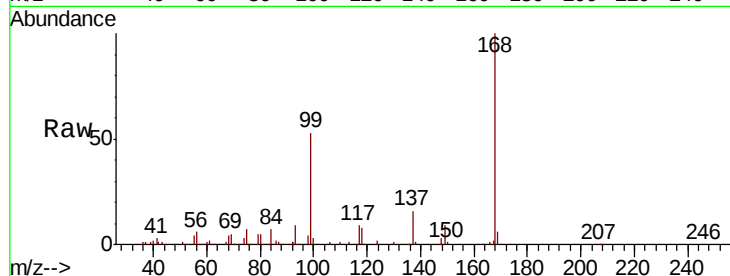
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:168 Resp: 387307

Ion Ratio Lower Upper

168 100

99 53.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

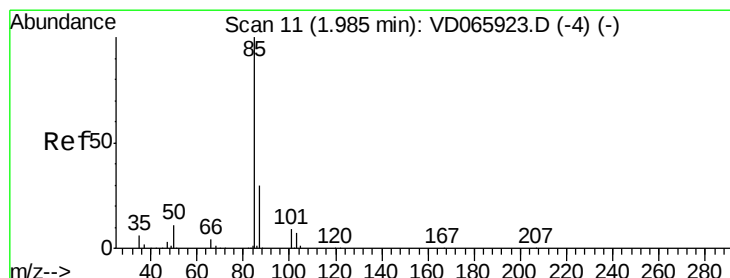
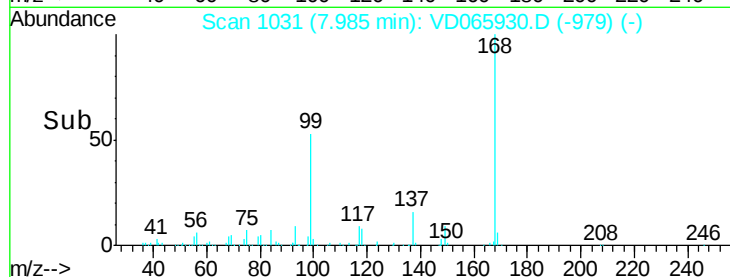
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.289 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD065930.D

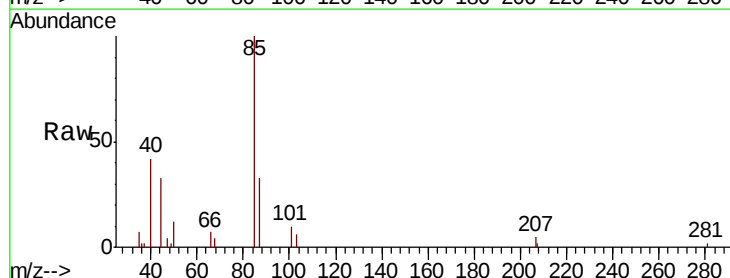
Acq: 07 Jul 2020 19:32

Tgt Ion: 85 Resp: 11326

Ion Ratio Lower Upper

85 100

87 33.5 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

10000

8000

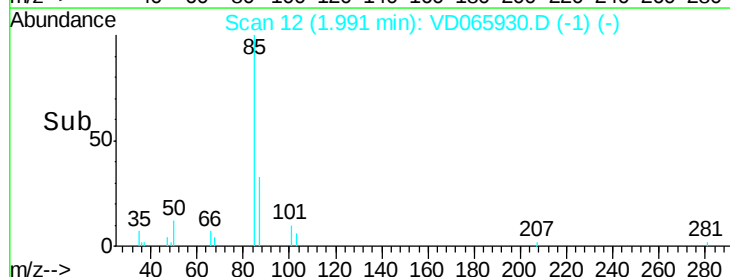
6000

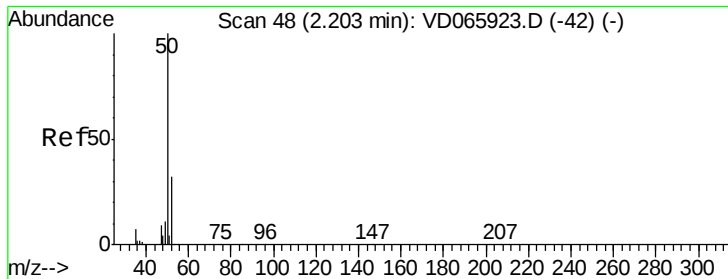
4000

2000

0

Time-->





#3

Chloromethane

Concen: 3.014 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

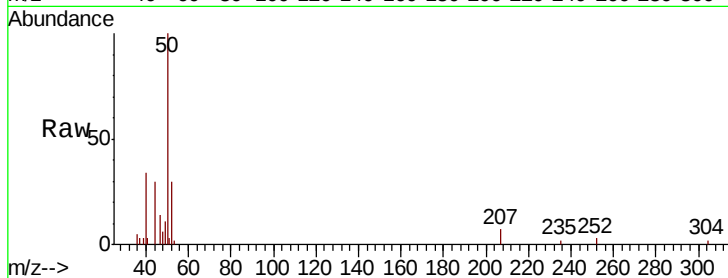
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 50 Resp: 10288

Ion Ratio Lower Upper

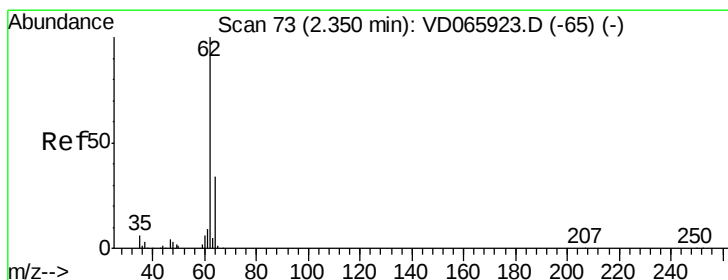
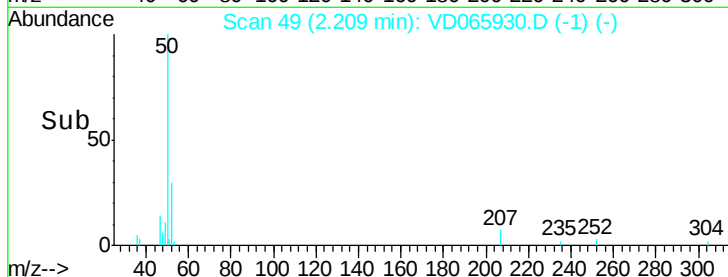
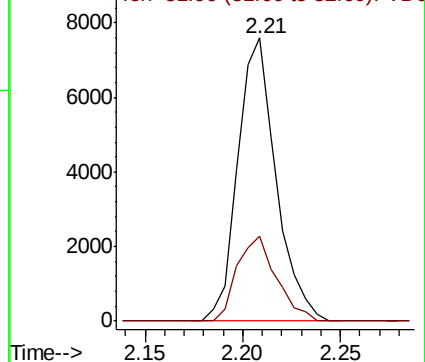
50 100

52 30.0 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.826 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065930.D

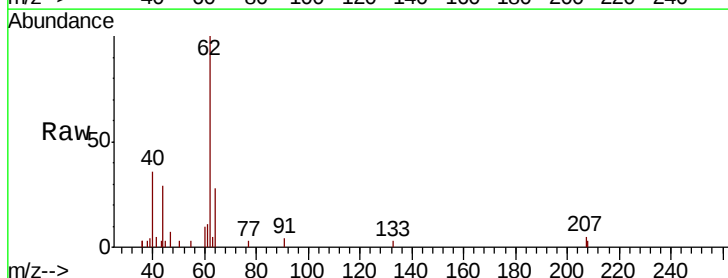
Acq: 07 Jul 2020 19:32

Tgt Ion: 62 Resp: 8858

Ion Ratio Lower Upper

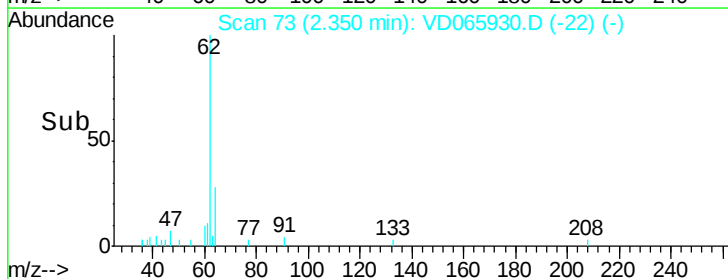
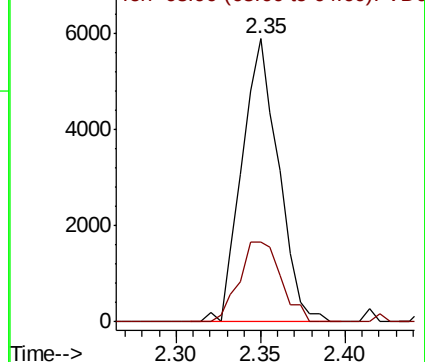
62 100

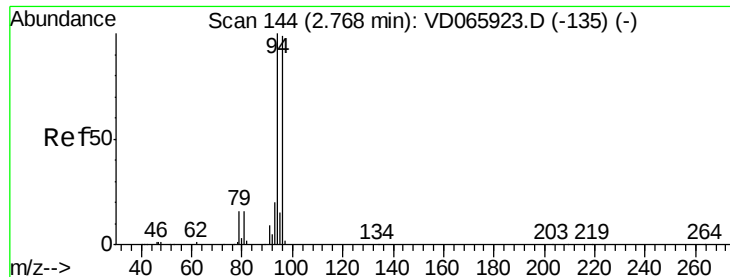
64 28.3 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 3.059 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

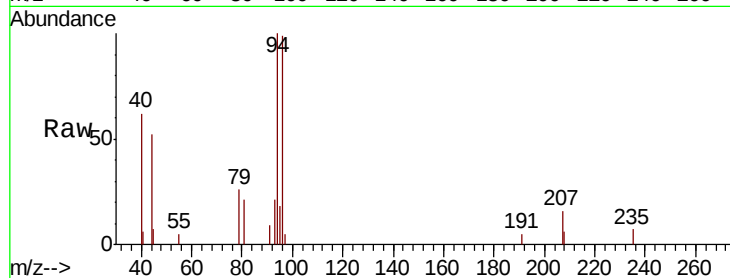
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 94 Resp: 6073

Ion Ratio Lower Upper

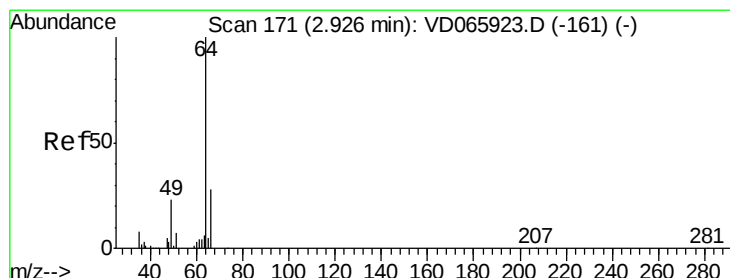
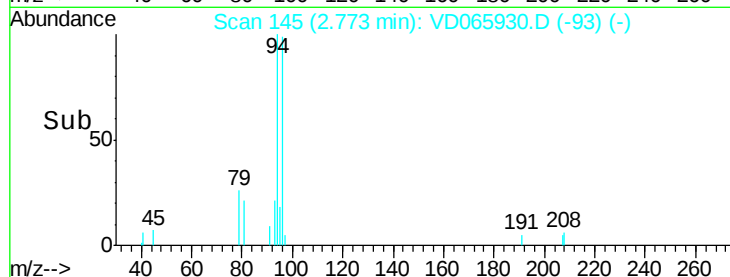
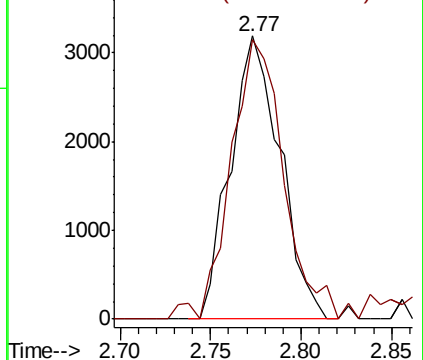
94 100

96 98.9 78.8 118.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.056 ug/l

RT: 2.93 min Scan# 171

Delta R.T. -0.00 min

Lab File: VD065930.D

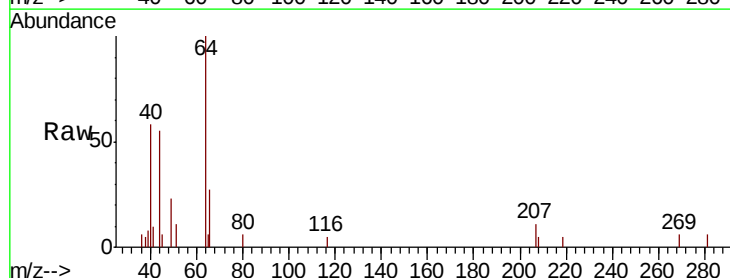
Acq: 07 Jul 2020 19:32

Tgt Ion: 64 Resp: 5726

Ion Ratio Lower Upper

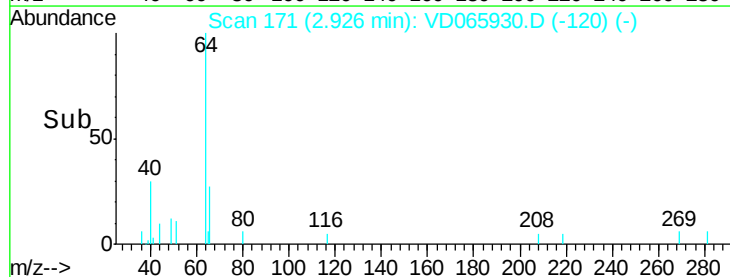
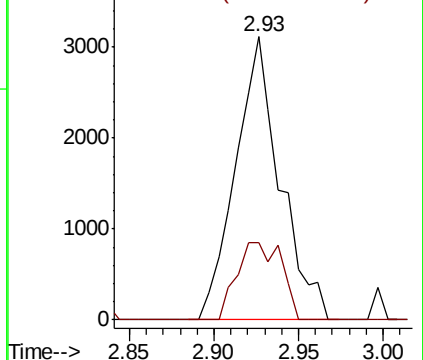
64 100

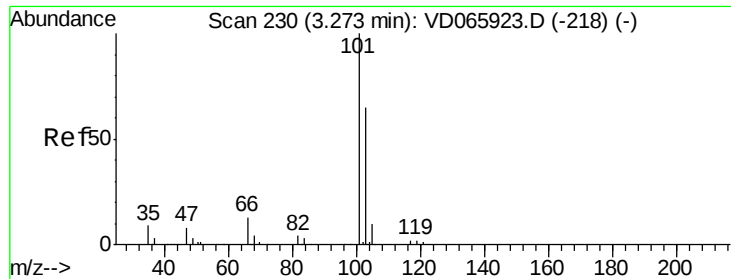
66 27.5 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



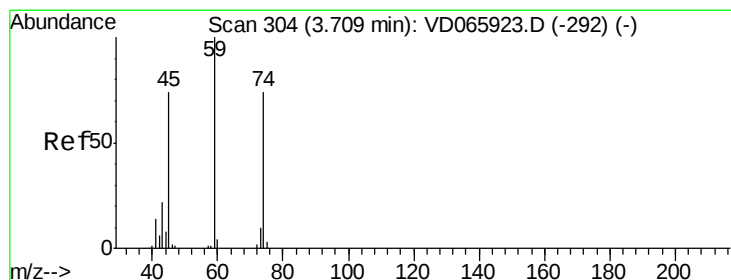
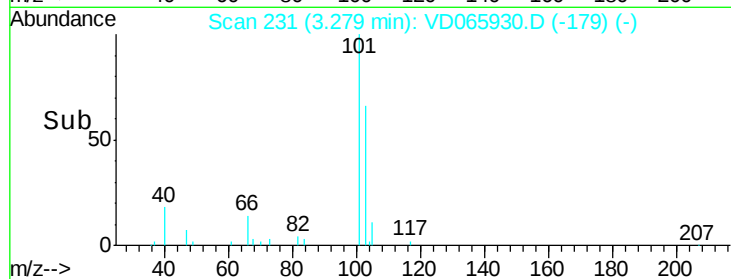
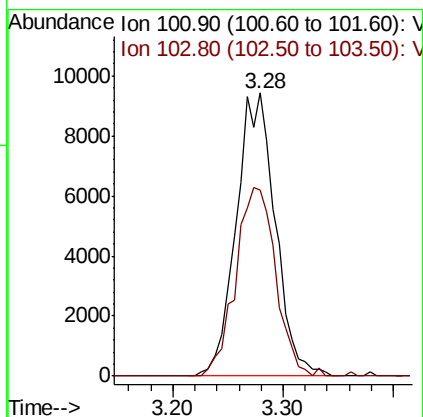
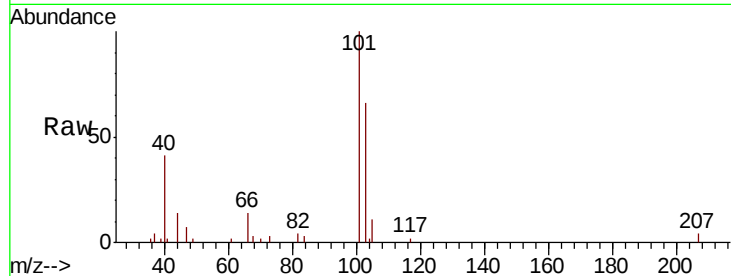


#7

Trichlorofluoromethane
 Concen: 3.487 ug/l
 RT: 3.28 min Scan# 231
 Delta R.T. 0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Instrument :
 MSVOA_D
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 LOD-MDL-SOIL-01-QT3-2020

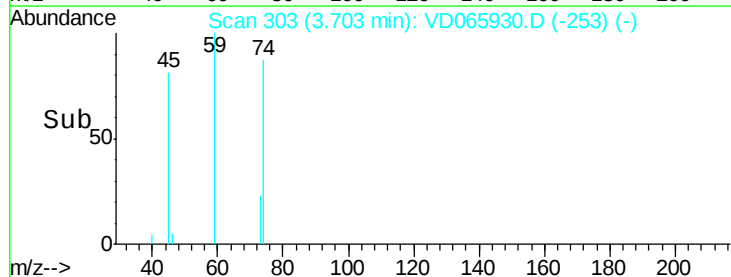
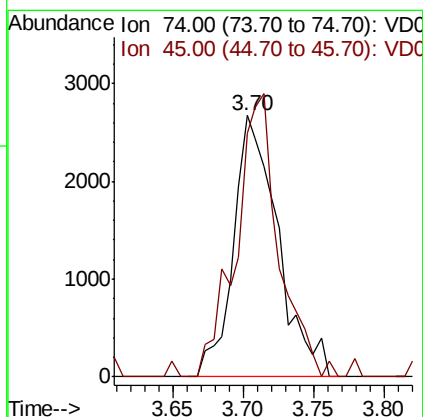
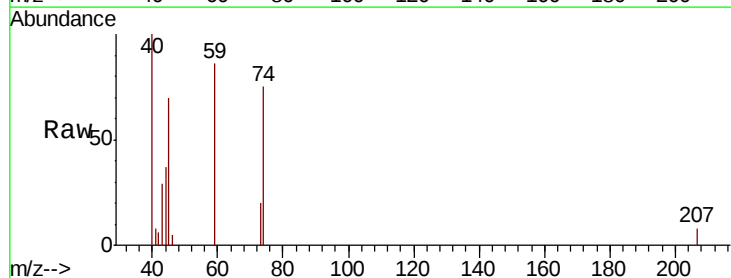
Tot Ion:101 Resp: 23422
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.7 77.5

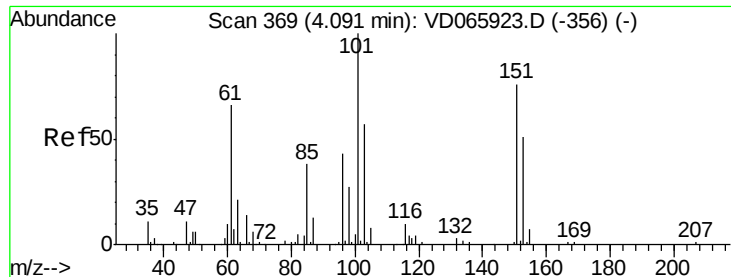


#8

Diethyl Ether
 Concen: 3.202 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 74 Resp: 5901
 Ion Ratio Lower Upper
 74 100
 45 103.9 51.1 153.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.331 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

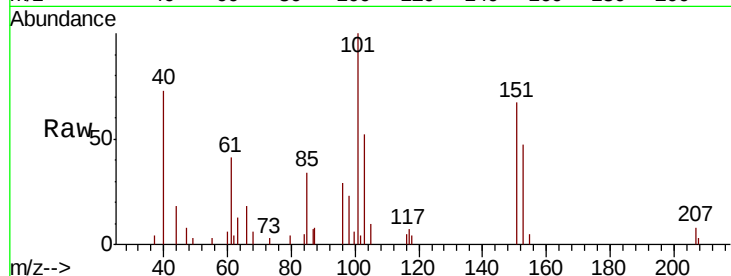
Tot Ion:101 Resp: 13384

Ion Ratio Lower Upper

101 100

85 40.0 33.8 50.8

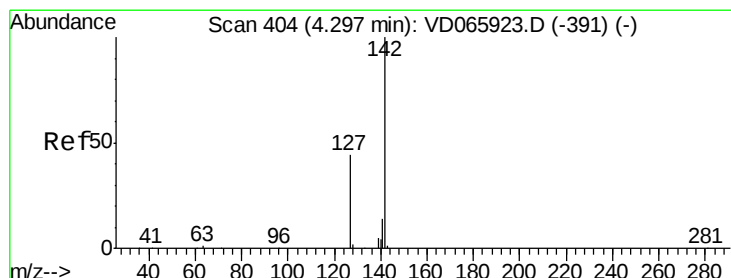
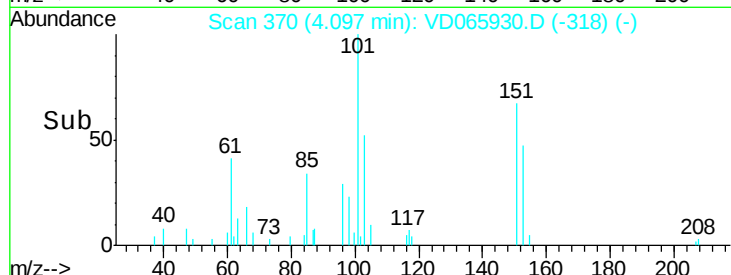
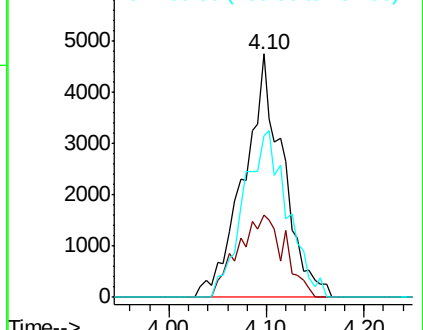
151 76.6 64.1 96.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.735 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

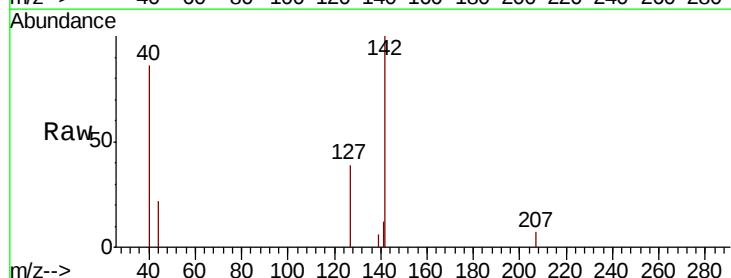
Tgt Ion:142 Resp: 10437

Ion Ratio Lower Upper

142 100

127 41.0 34.6 51.8

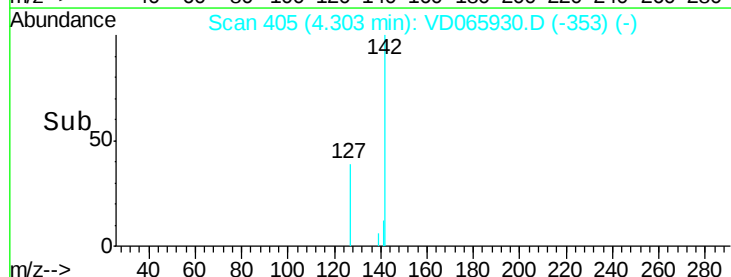
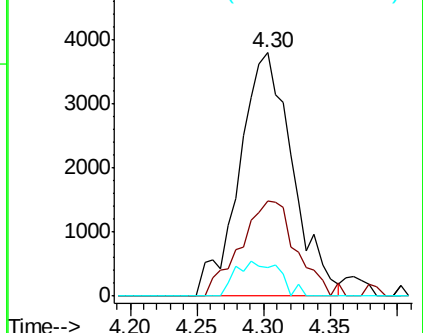
141 11.8 11.6 17.4

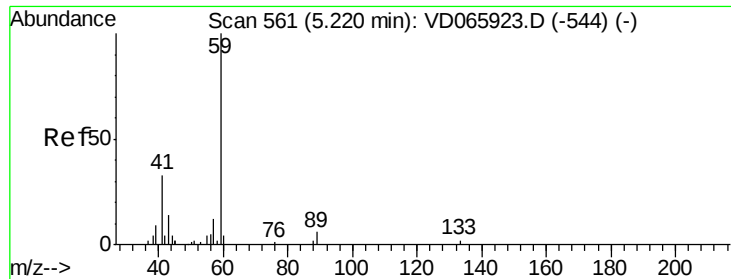


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



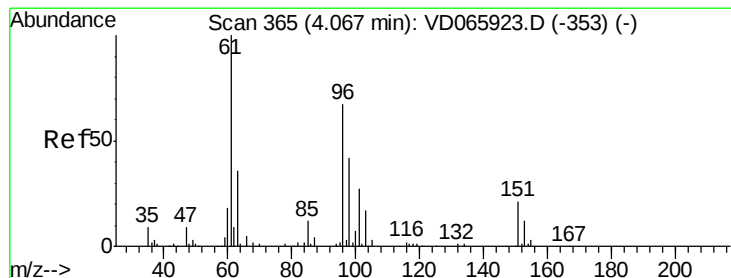
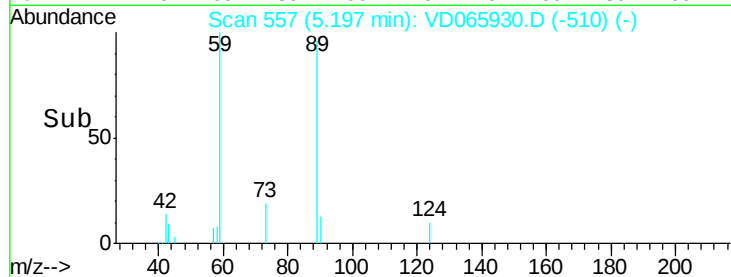
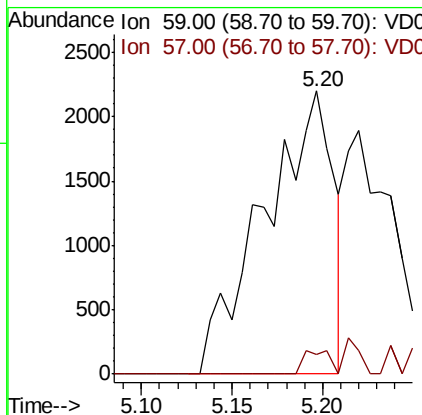
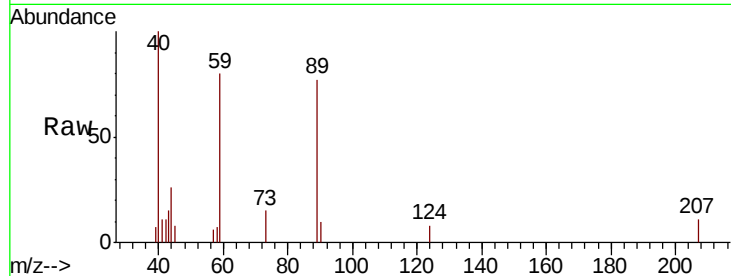


#11

Tert butyl alcohol
 Concen: 23.802 ug/l
 RT: 5.20 min Scan# 557
 Delta R.T. -0.02 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

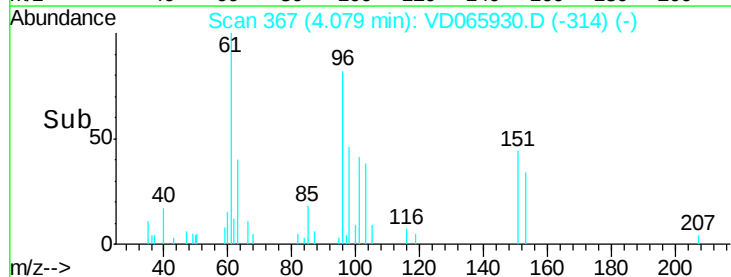
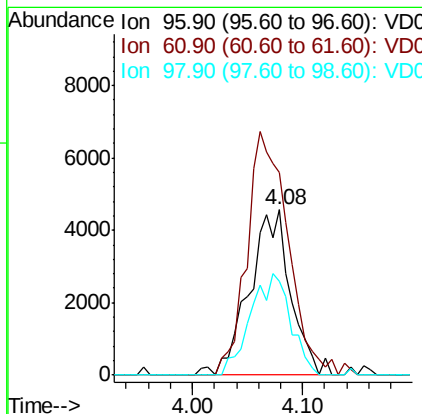
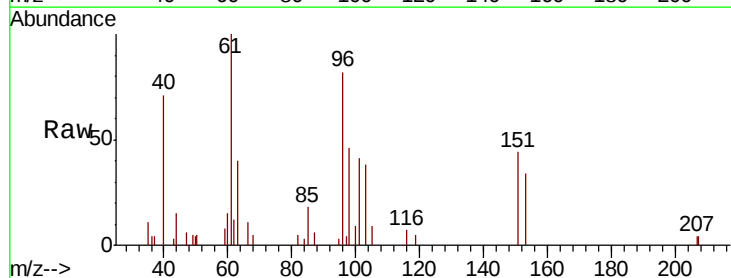
Tot Ion: 59 Resp: 5859
 Ion Ratio Lower Upper
 59 100
 57 3.1 8.7 13.1#

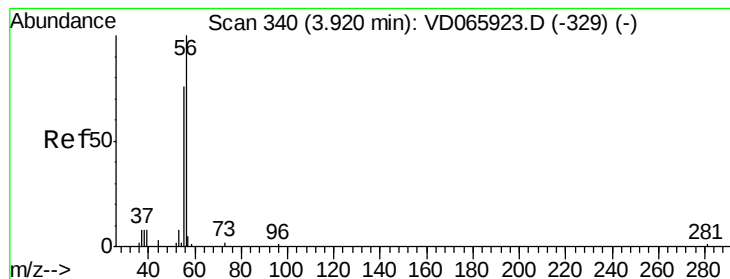


#12

1,1-Dichloroethene
 Concen: 3.190 ug/l
 RT: 4.08 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 96 Resp: 11975
 Ion Ratio Lower Upper
 96 100
 61 122.2 120.2 180.2
 98 56.4 50.6 76.0





#13

Acrolein

Concen: 16.048 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

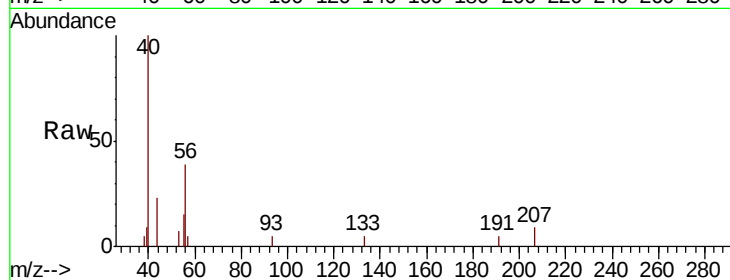
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 56 Resp: 3250

Ion Ratio Lower Upper

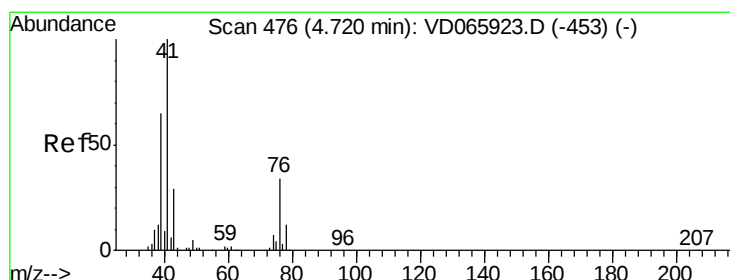
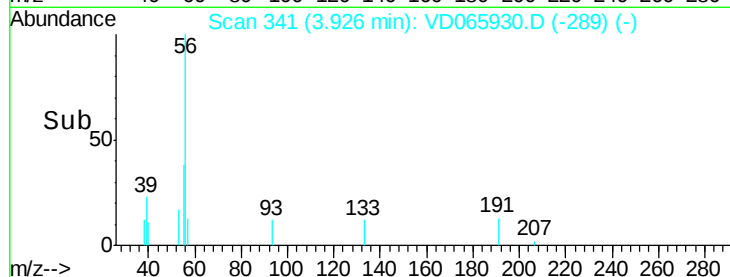
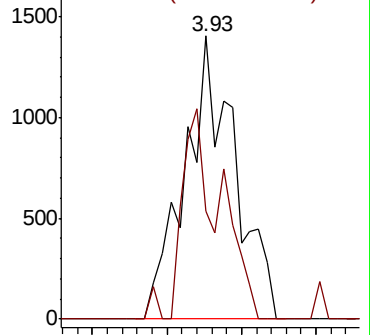
56 100

55 39.4 55.0 82.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.003 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

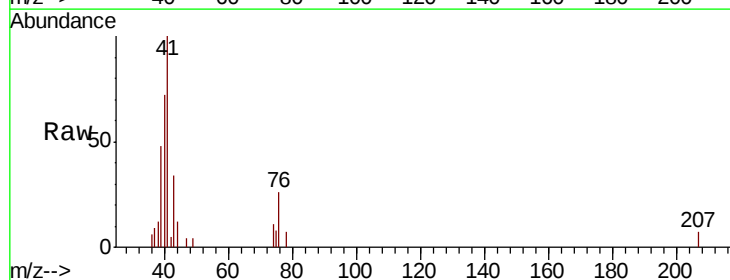
Tgt Ion: 41 Resp: 19104

Ion Ratio Lower Upper

41 100

39 0.0 52.2 78.4#

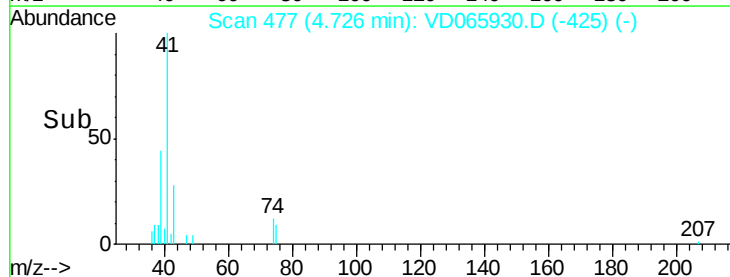
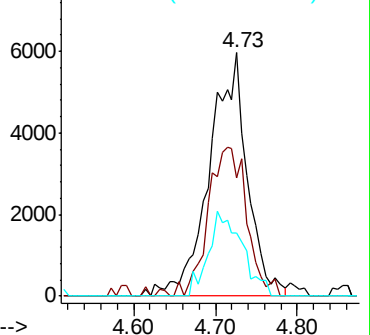
76 0.0 28.1 42.1#

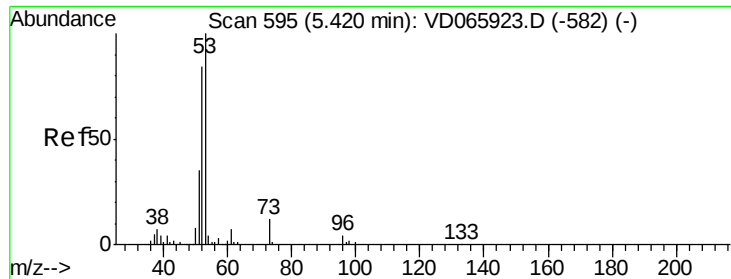


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 15.298 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

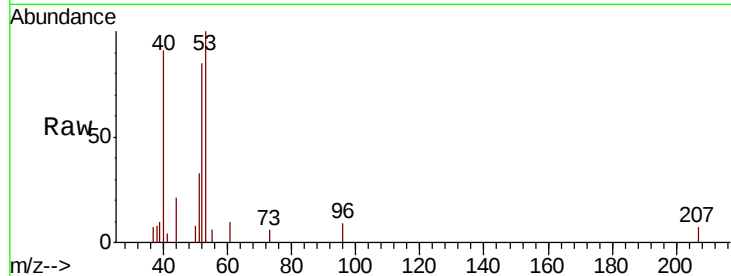
Tot Ion: 53 Resp: 12343

Ion Ratio Lower Upper

53 100

52 81.8 66.3 99.5

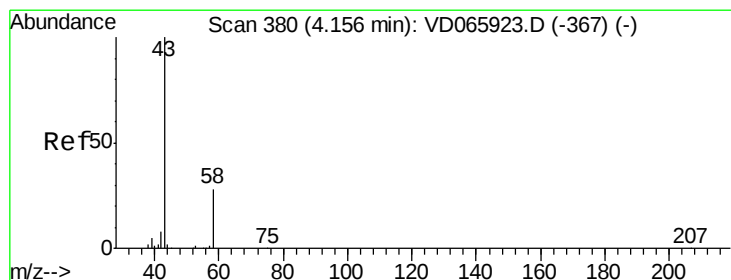
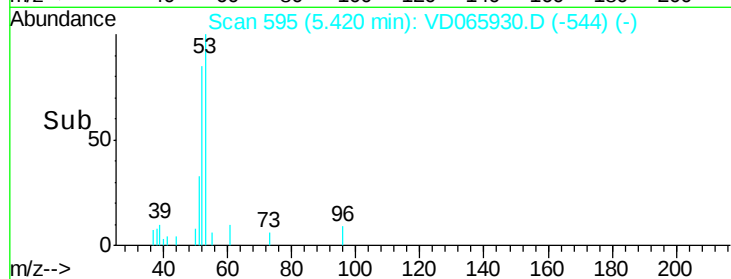
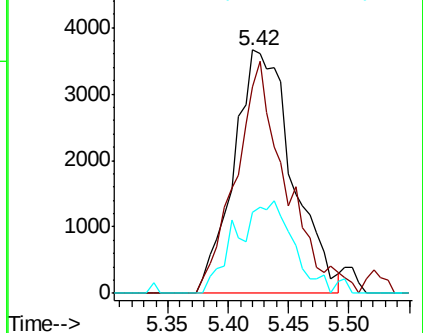
51 36.6 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 15.318 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065930.D

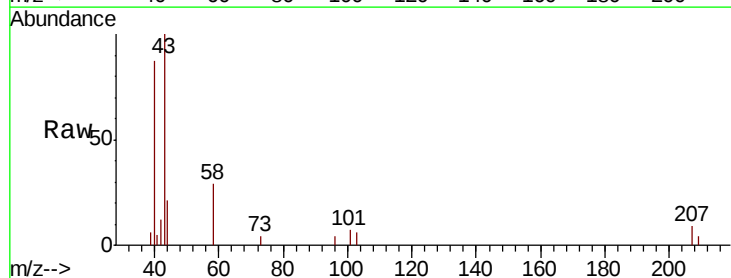
Acq: 07 Jul 2020 19:32

Tgt Ion: 43 Resp: 12322

Ion Ratio Lower Upper

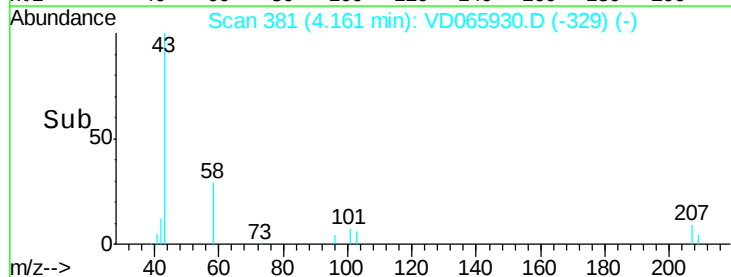
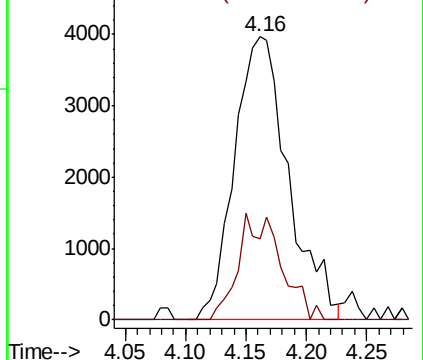
43 100

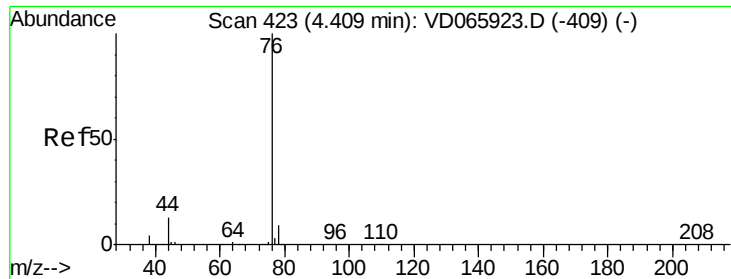
58 28.7 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 3.080 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

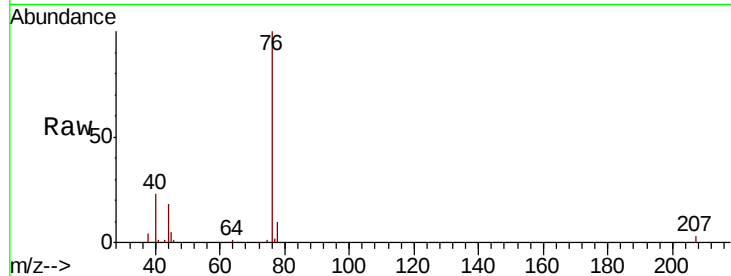
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 76 Resp: 36842

Ion Ratio Lower Upper

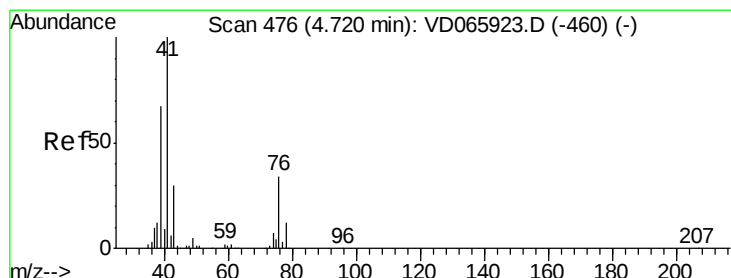
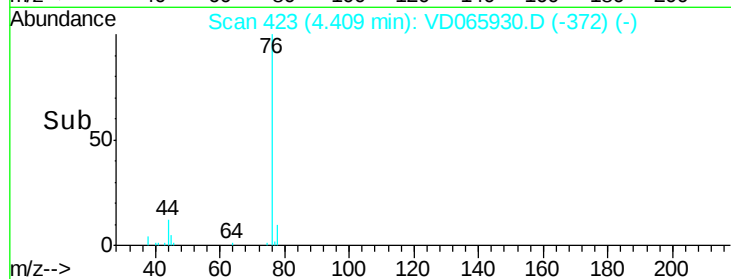
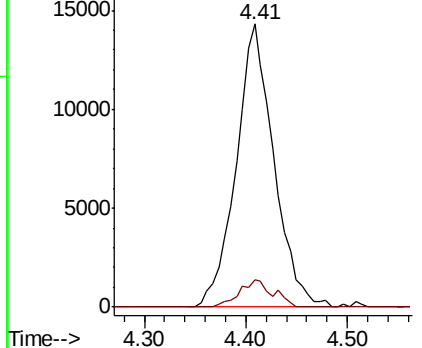
76 100

78 9.7 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 3.747 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.01 min

Lab File: VD065930.D

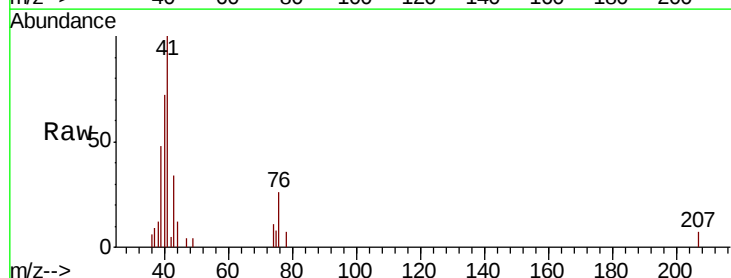
Acq: 07 Jul 2020 19:32

Tgt Ion: 43 Resp: 7065

Ion Ratio Lower Upper

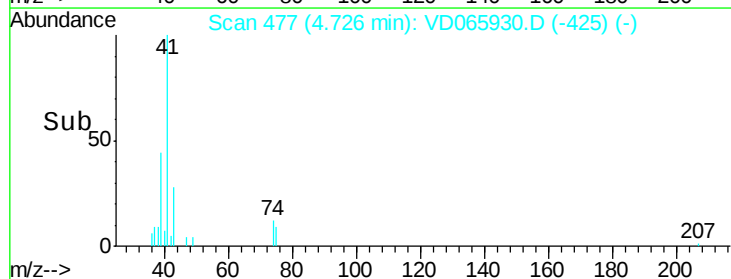
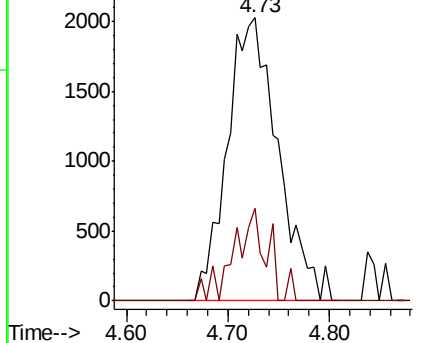
43 100

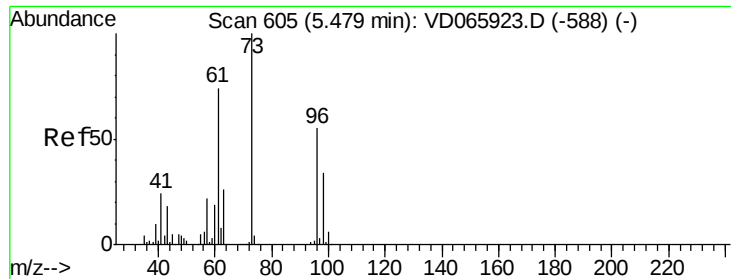
74 20.4 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



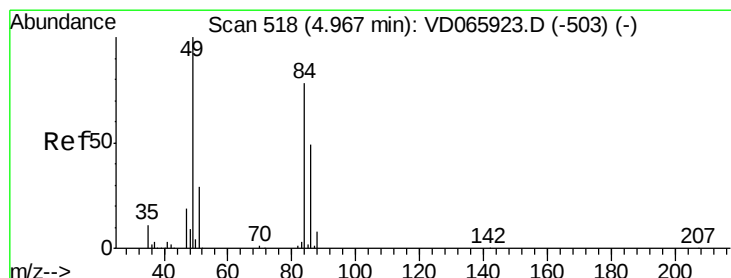
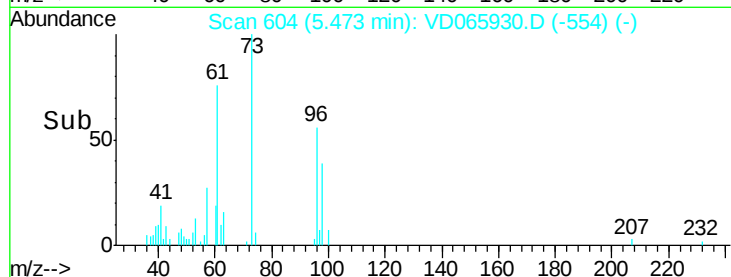
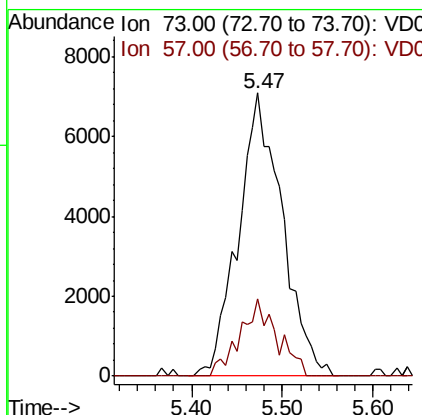
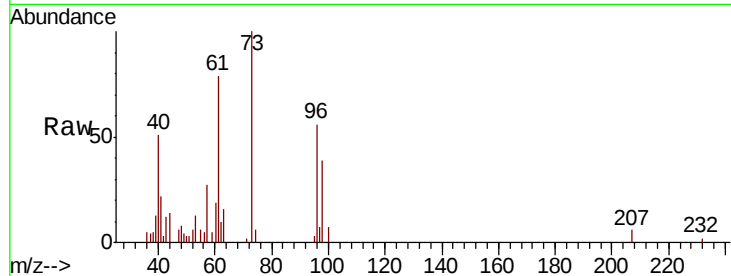


#19

Methyl tert-butyl Ether
 Concen: 2.993 ug/l
 RT: 5.47 min Scan# 604
 Delta R.T. -0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

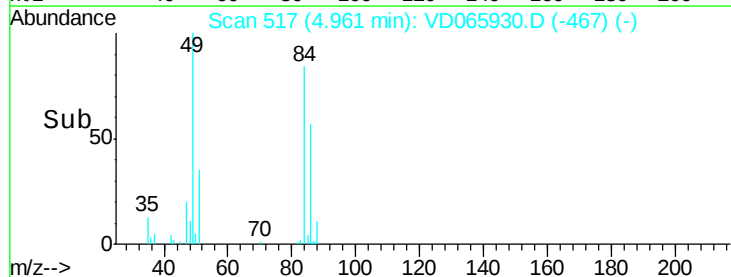
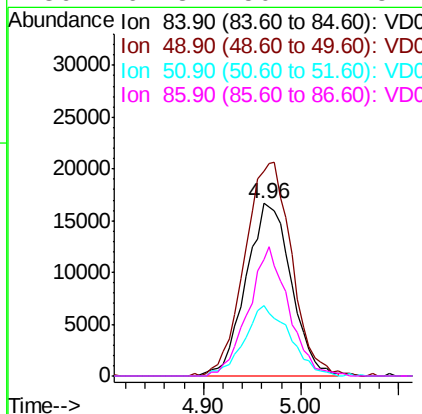
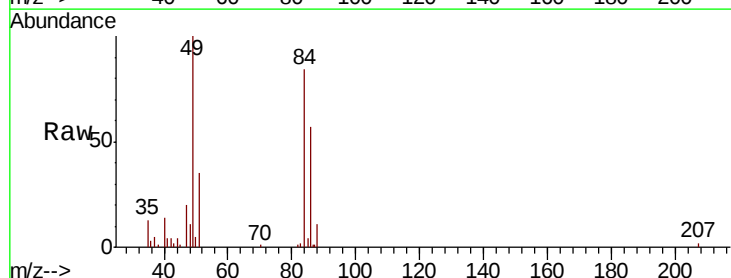
Tot Ion: 73 Resp: 23783
 Ion Ratio Lower Upper
 73 100
 57 27.5 17.7 26.5#

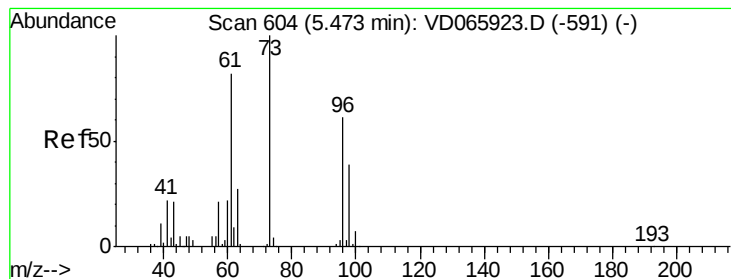


#20

Methylene Chloride
 Concen: 9.473 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 84 Resp: 54131
 Ion Ratio Lower Upper
 84 100
 49 118.7 102.2 153.2
 51 41.2 29.8 44.6
 86 67.3 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 3.202 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

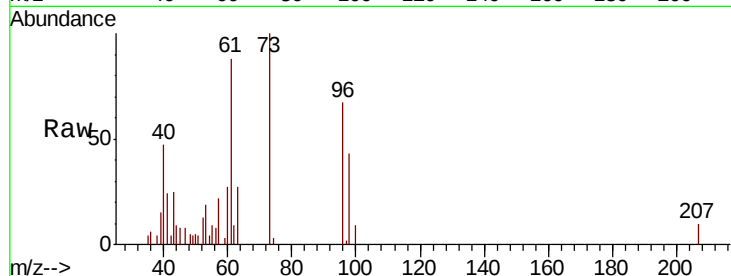
Tot Ion: 96 Resp: 13524

Ion Ratio Lower Upper

96 100

61 131.2 106.6 160.0

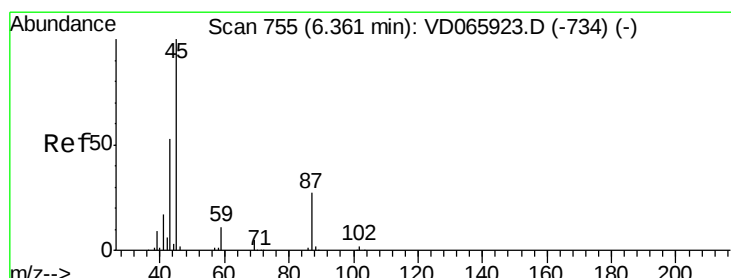
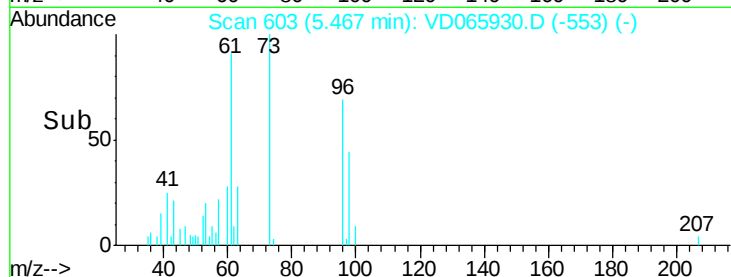
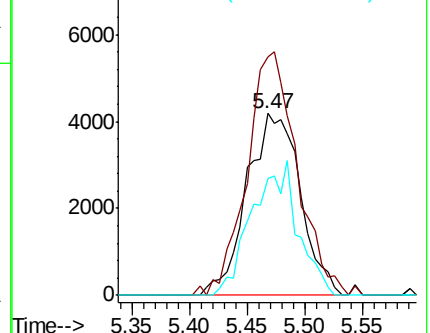
98 64.2 51.0 76.6



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 2.875 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Tgt Ion: 45 Resp: 34365

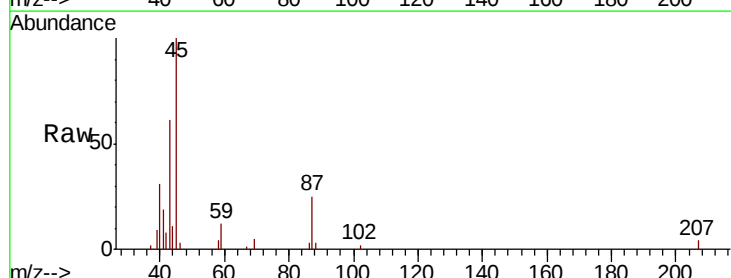
Ion Ratio Lower Upper

45 100

43 58.1 42.5 63.7

87 25.2 22.2 33.2

59 12.0 8.9 13.3

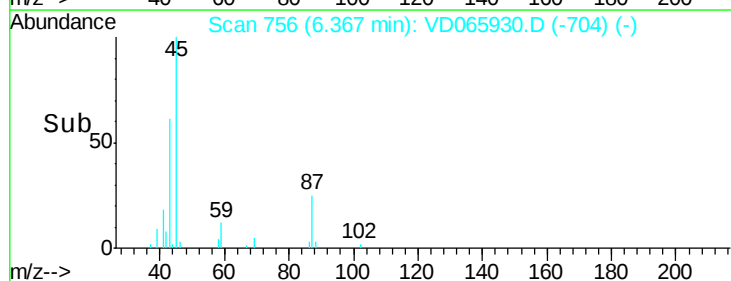
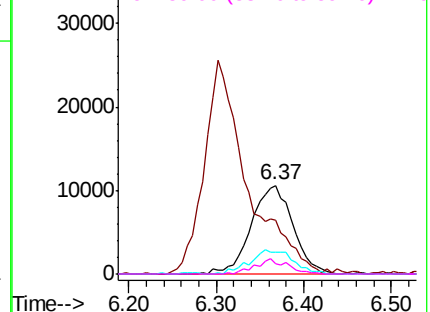


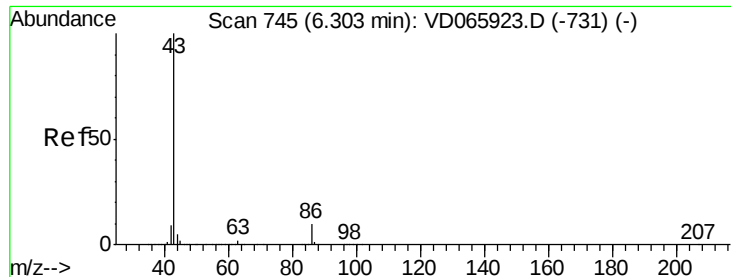
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 12.762 ug/l

RT: 6.30 min Scan# 745

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

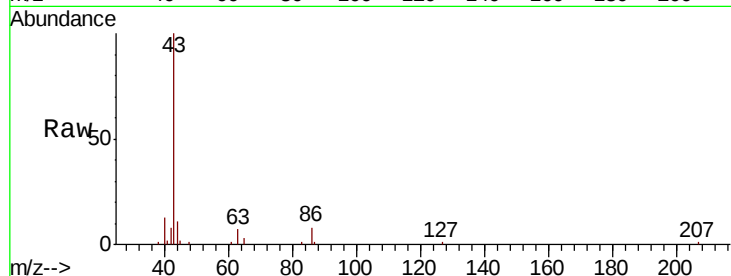
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 87080

Ion Ratio Lower Upper

43 100

86 8.3 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

30000

25000

20000

15000

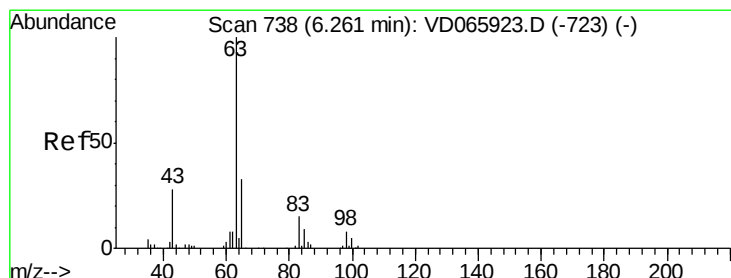
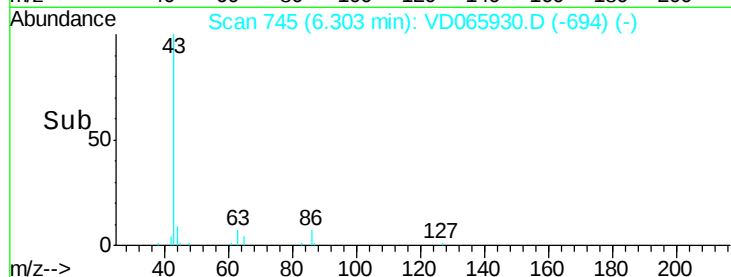
10000

5000

0

6.20 6.30 6.40

Time-->



#24

1,1-Dichloroethane

Concen: 3.032 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

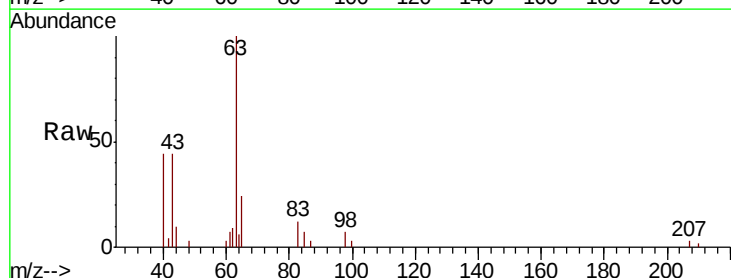
Tgt Ion: 63 Resp: 21615

Ion Ratio Lower Upper

63 100

98 6.6 3.8 11.4

100 3.3 2.5 7.5



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

10000

8000

6000

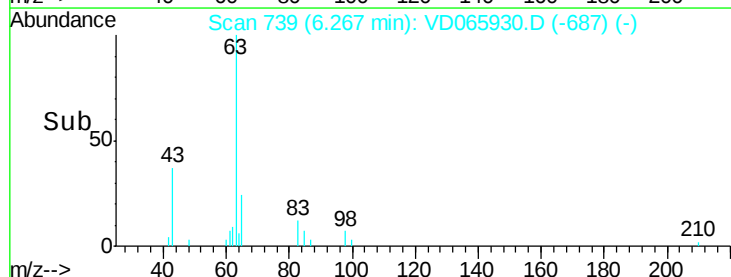
4000

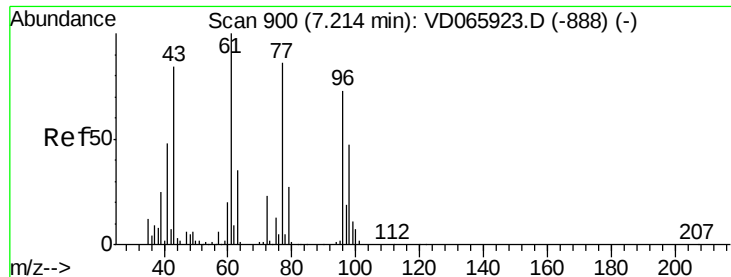
2000

0

6.15 6.20 6.25 6.30 6.35

Time-->





#25

2-Butanone

Concen: 17.177 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

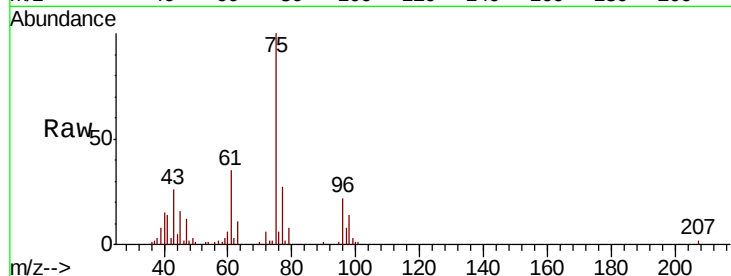
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 18258

Ion Ratio Lower Upper

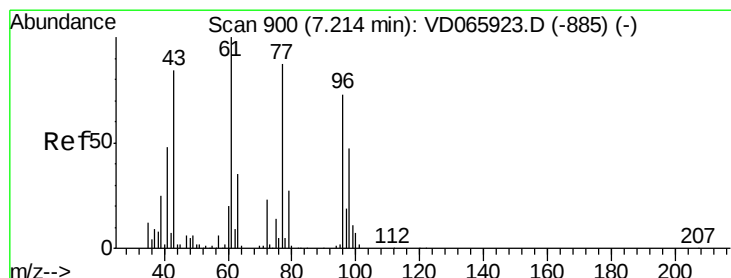
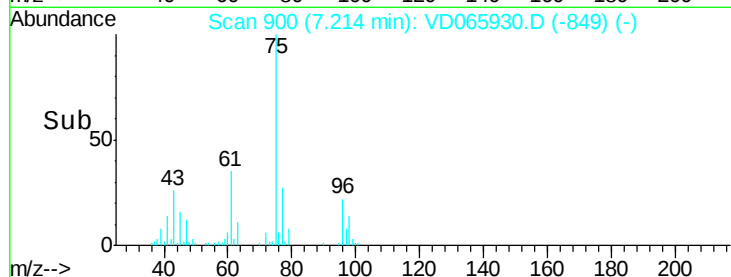
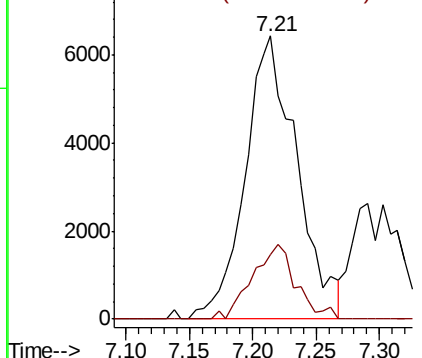
43 100

72 22.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.429 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065930.D

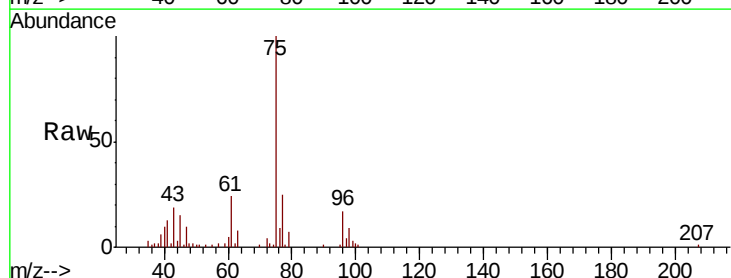
Acq: 07 Jul 2020 19:32

Tgt Ion: 77 Resp: 21380

Ion Ratio Lower Upper

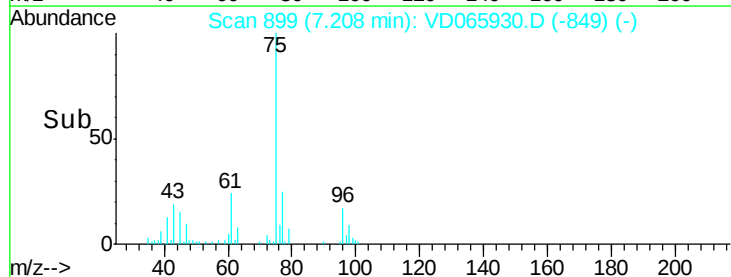
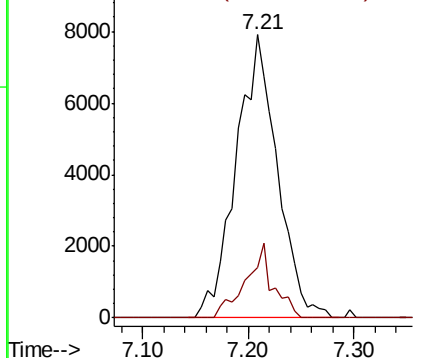
77 100

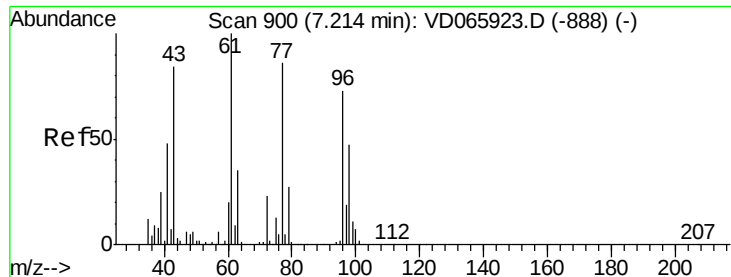
97 17.5 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



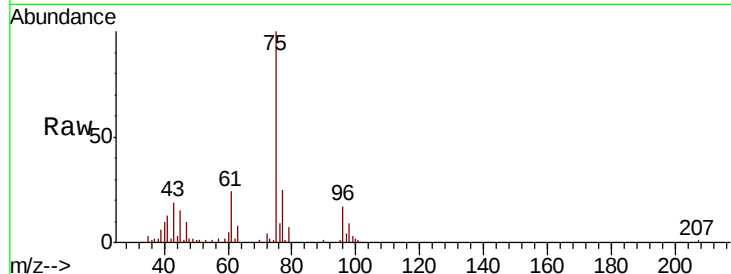


#27

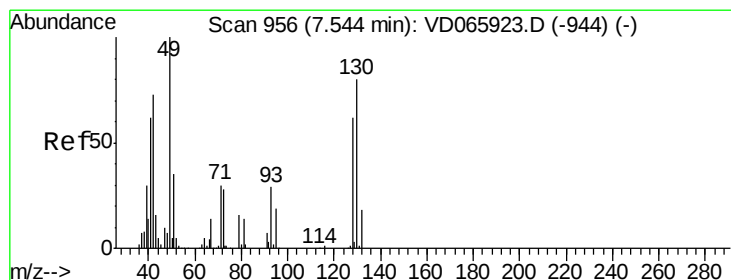
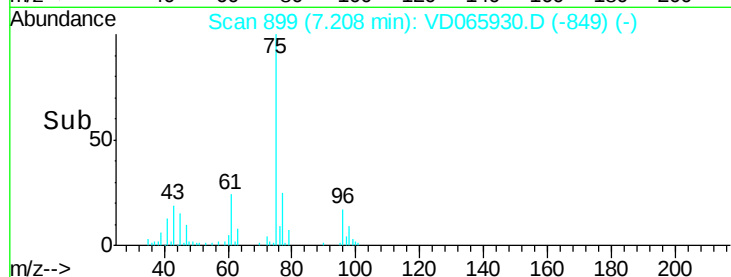
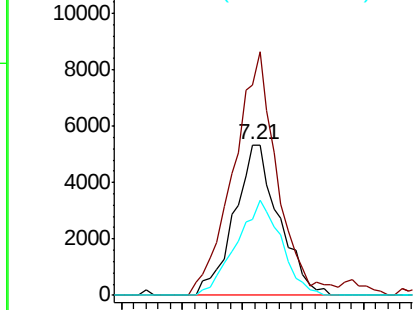
cis-1,2-Dichloroethene
Concen: 3.024 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 96 Resp: 13722
Ion Ratio Lower Upper
96 100
61 158.8 0.0 286.6
98 63.4 0.0 128.2



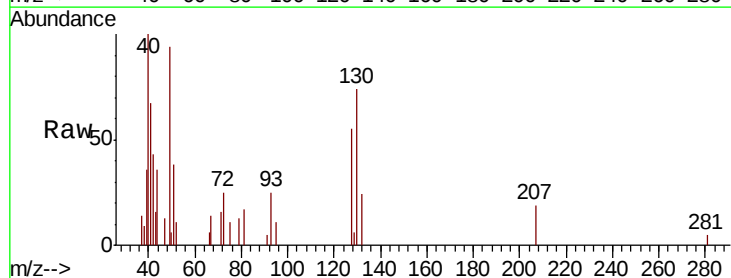
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



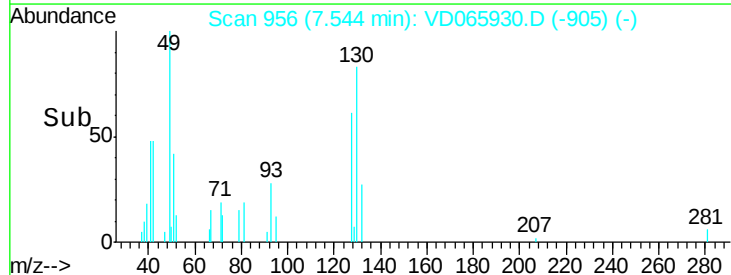
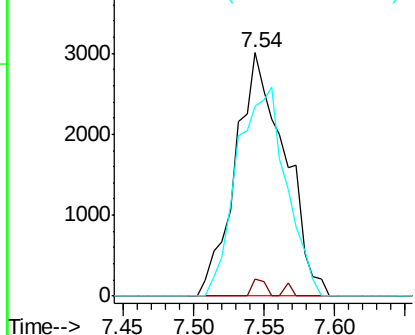
#28

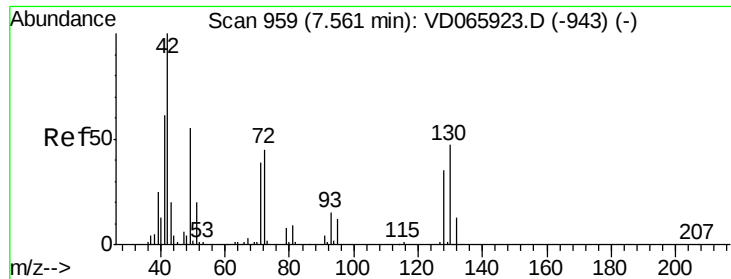
Bromochloromethane
Concen: 2.727 ug/l
RT: 7.54 min Scan# 956
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 49 Resp: 7342
Ion Ratio Lower Upper
49 100
129 1.8 0.0 4.8
130 0.0 65.8 98.8#



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

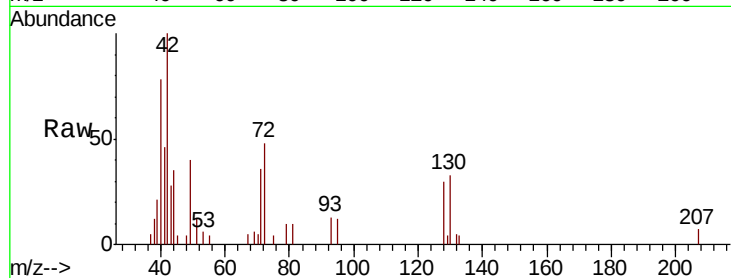




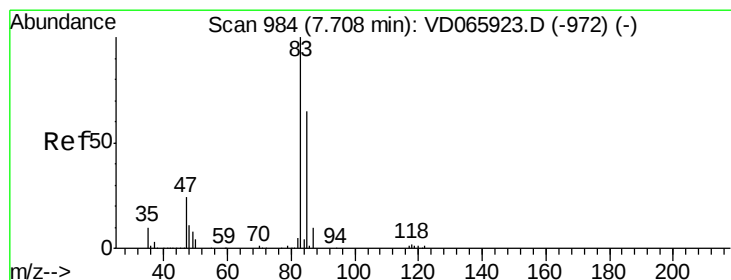
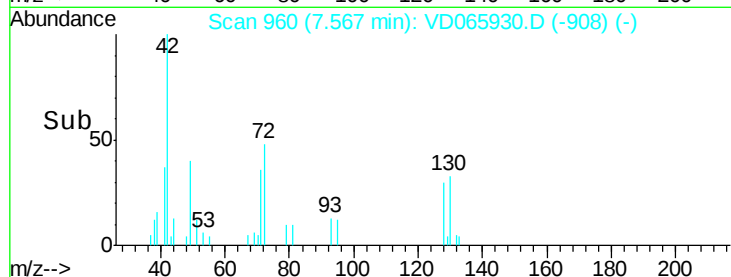
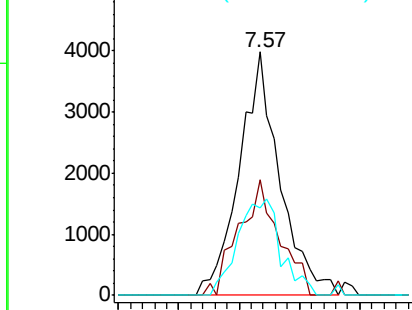
#29
Tetrahydrofuran
Concen: 13.759 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 42 Resp: 9300
Ion Ratio Lower Upper
42 100
72 47.1 32.8 49.2
71 42.3 31.0 46.4

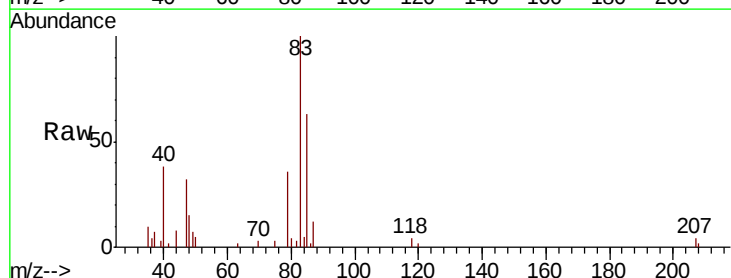


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

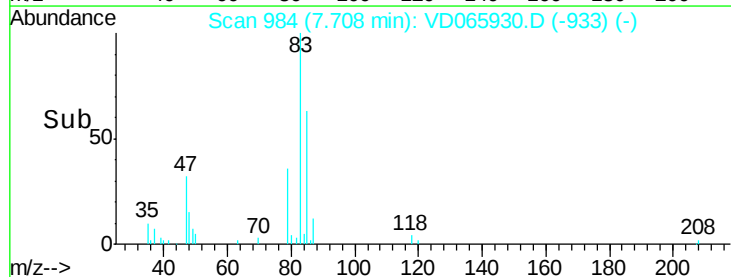
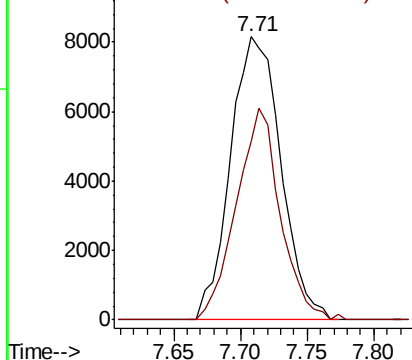


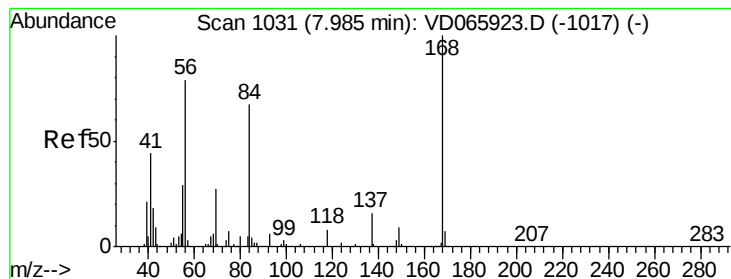
#30
Chloroform
Concen: 2.961 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 83 Resp: 21396
Ion Ratio Lower Upper
83 100
85 63.2 51.6 77.4



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





#31

Cyclohexane

Concen: 3.835 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

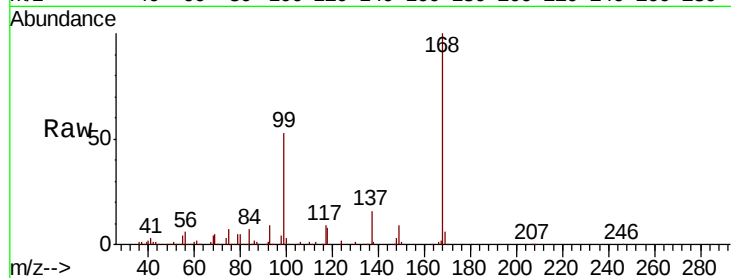
Tot Ion: 56 Resp: 26897

Ion Ratio Lower Upper

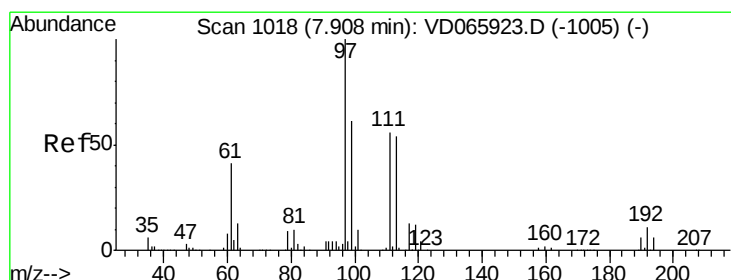
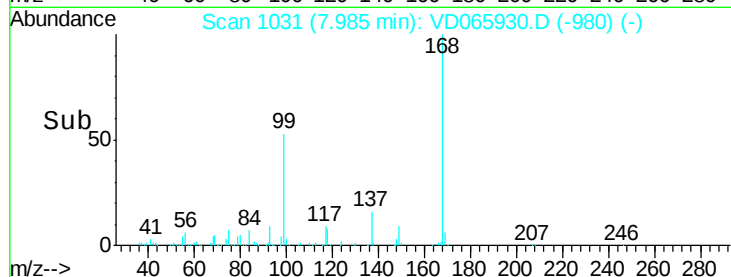
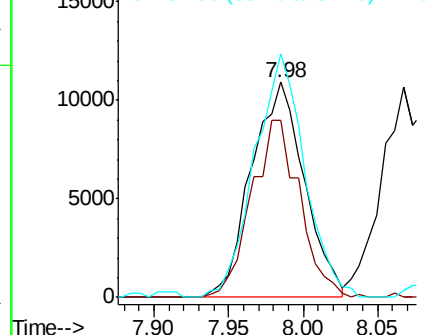
56 100

69 82.0 27.4 41.0#

84 113.1 68.6 102.8#



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



#32

1,1,1-Trichloroethane

Concen: 2.960 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

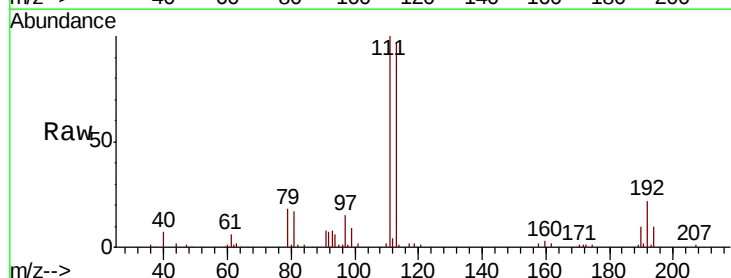
Tgt Ion: 97 Resp: 19518

Ion Ratio Lower Upper

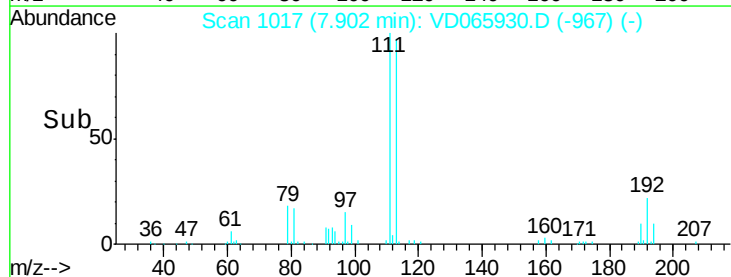
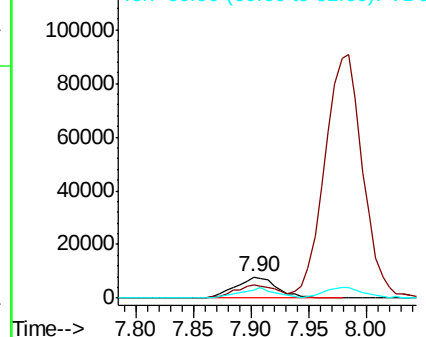
97 100

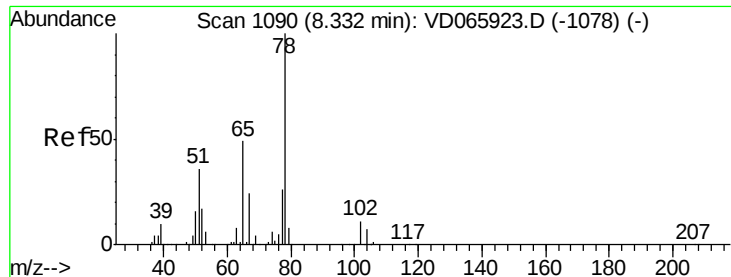
99 61.4 51.6 77.4

61 41.3 33.6 50.4



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





#33

1,2-Dichloroethane-d4

Concen: 53.281 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

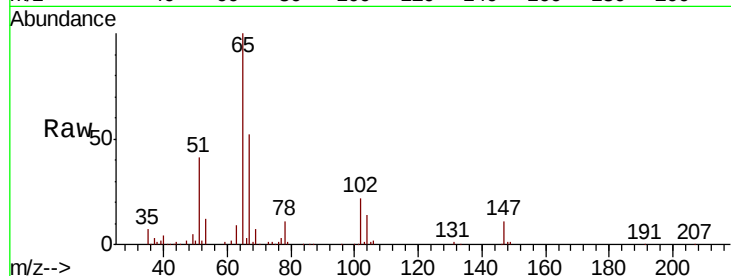
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 65 Resp: 182881

Ion Ratio Lower Upper

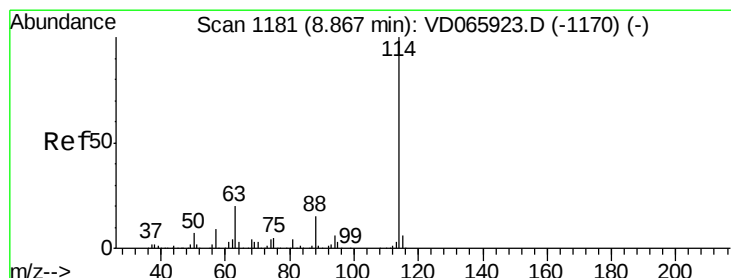
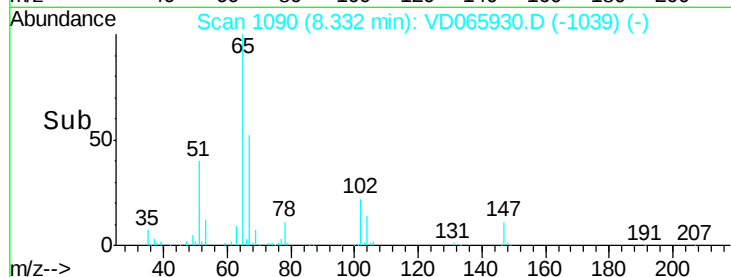
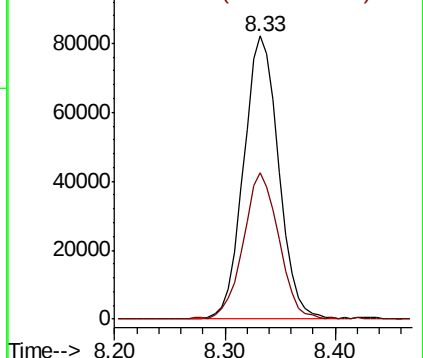
65 100

67 52.7 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

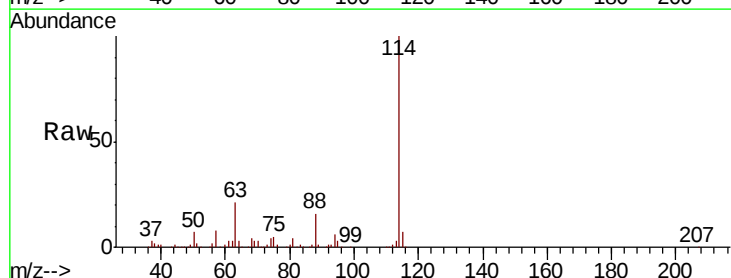
Tgt Ion: 114 Resp: 613444

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.2

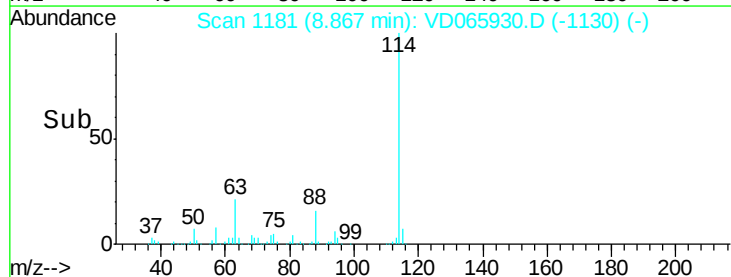
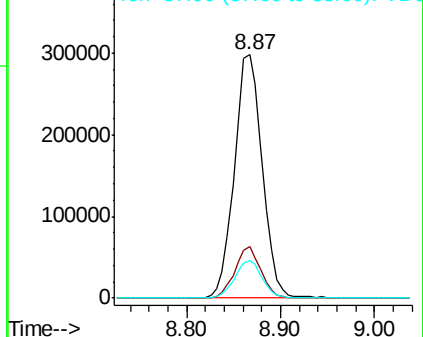
88 15.6 0.0 30.0

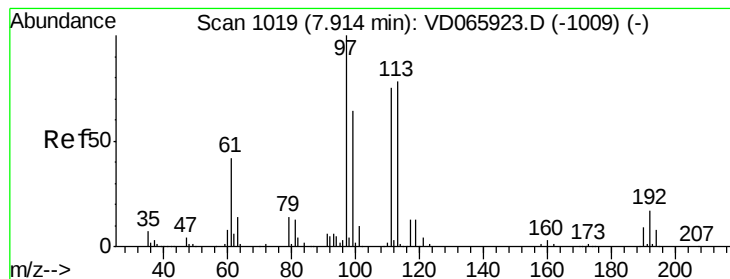


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.626 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

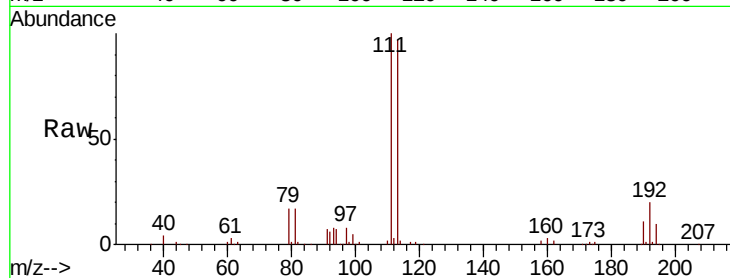
Tot Ion:113 Resp: 191581

Ion Ratio Lower Upper

113 100

111 102.6 80.9 121.3

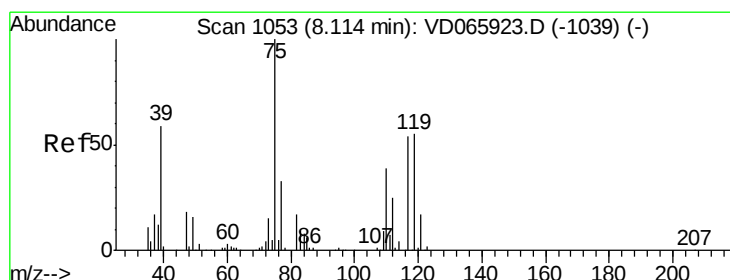
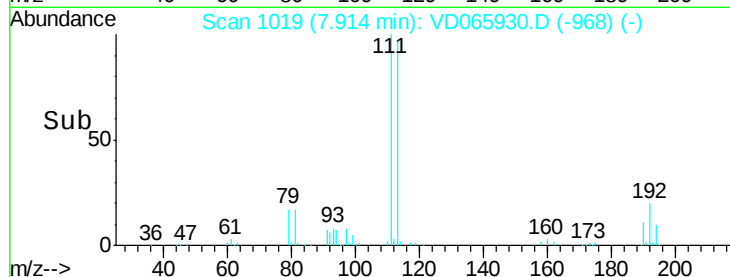
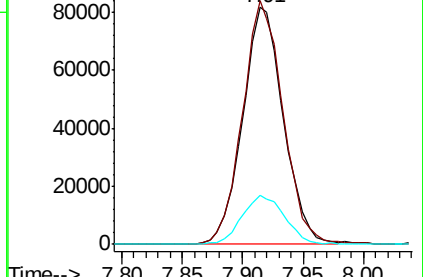
192 21.7 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.110 ug/l

RT: 8.11 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

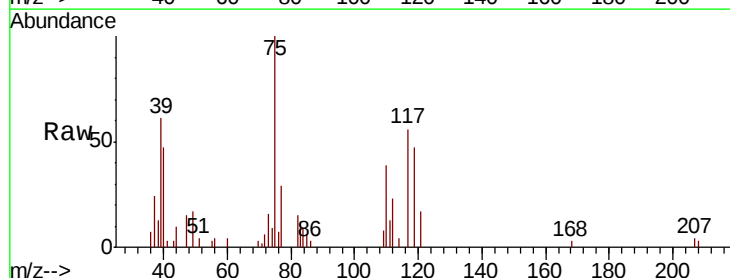
Tgt Ion: 75 Resp: 18844

Ion Ratio Lower Upper

75 100

110 33.8 18.5 55.5

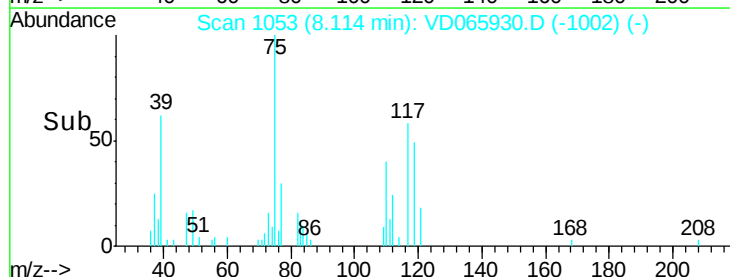
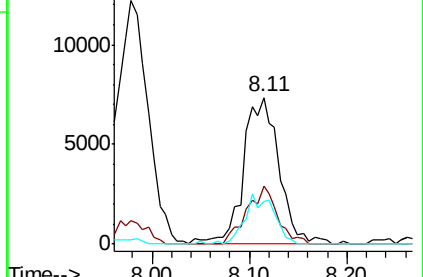
77 27.8 25.6 38.4

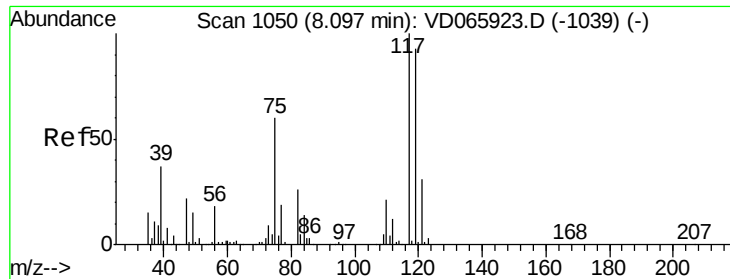


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

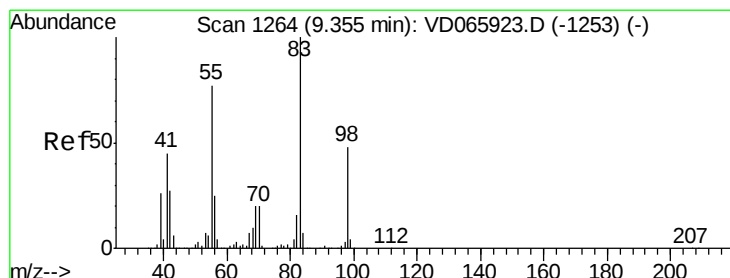
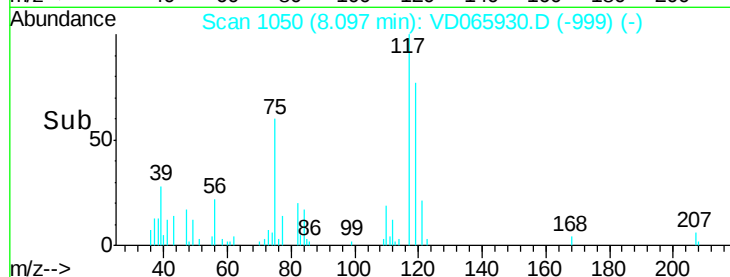
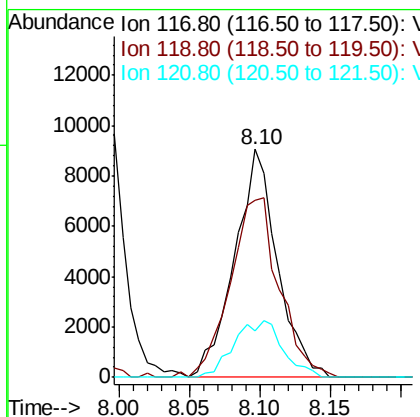
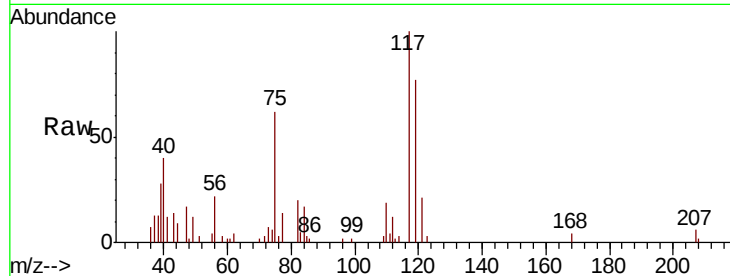




#38
Carbon Tetrachloride
Concen: 2.954 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

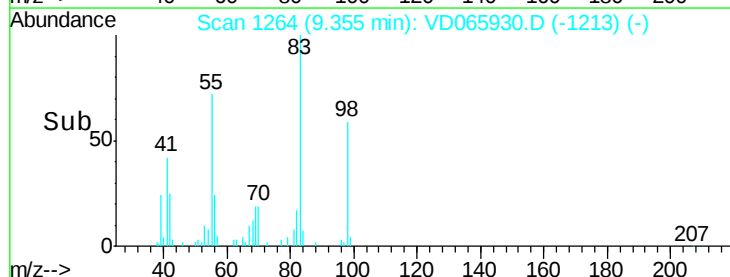
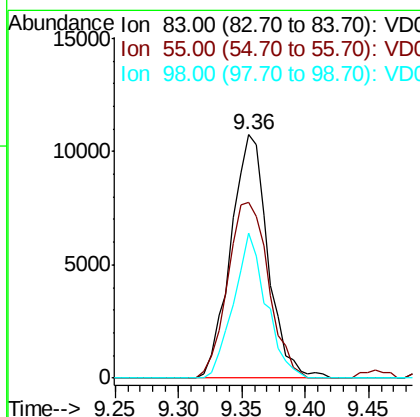
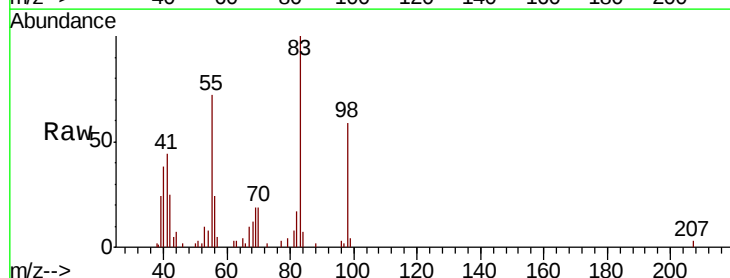
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

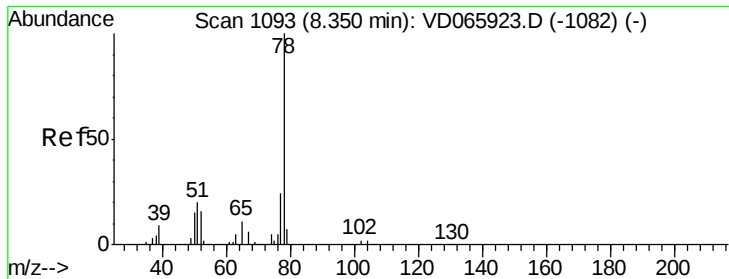
Tot Ion:117 Resp: 19186
Ion Ratio Lower Upper
117 100
119 77.4 74.7 112.1
121 20.5 24.9 37.3#



#39
Methylcyclohexane
Concen: 2.920 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 83 Resp: 21719
Ion Ratio Lower Upper
83 100
55 72.1 61.7 92.5
98 59.3 38.6 58.0#





#40

Benzene

Concen: 2.930 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

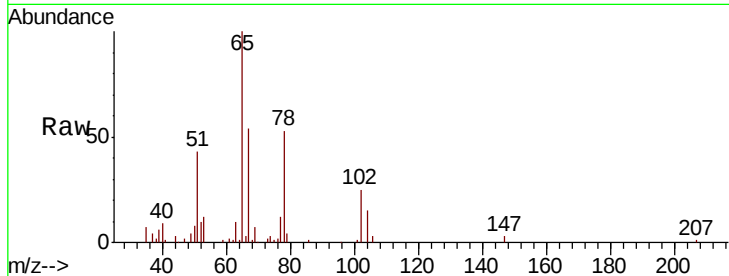
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 78 Resp: 49038

Ion Ratio Lower Upper

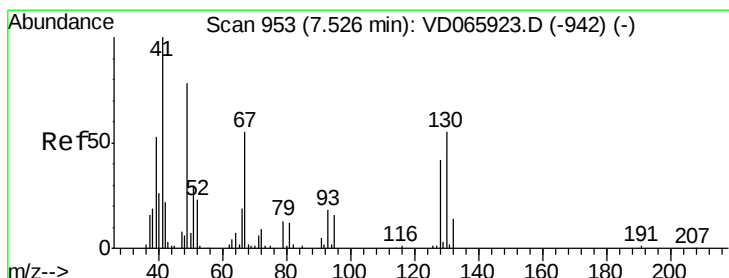
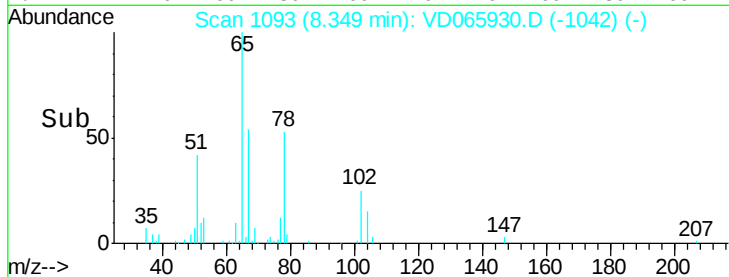
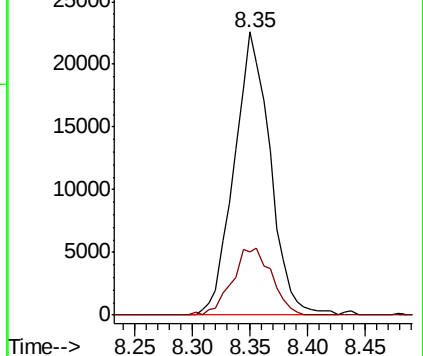
78 100

77 22.4 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#41

Methacrylonitrile

Concen: 4.709 ug/l

RT: 7.55 min Scan# 957

Delta R.T. 0.02 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Tgt Ion: 41 Resp: 6941

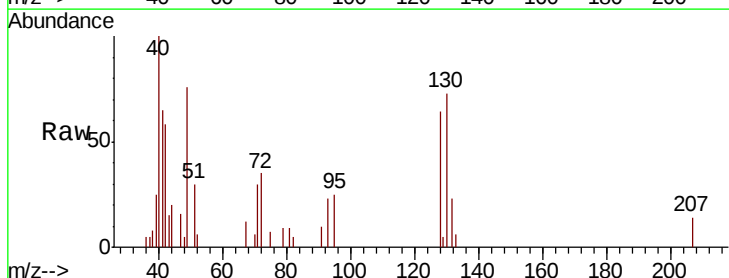
Ion Ratio Lower Upper

41 100

39 45.8 42.4 63.6

67 0.0 53.6 80.4#

52 0.0 22.2 33.2#

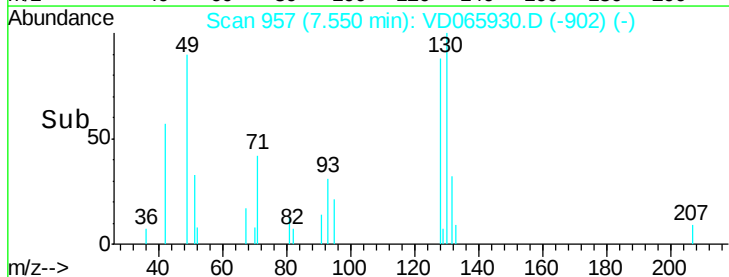
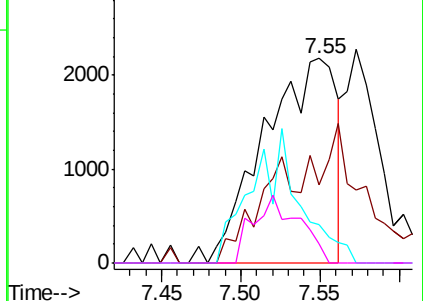


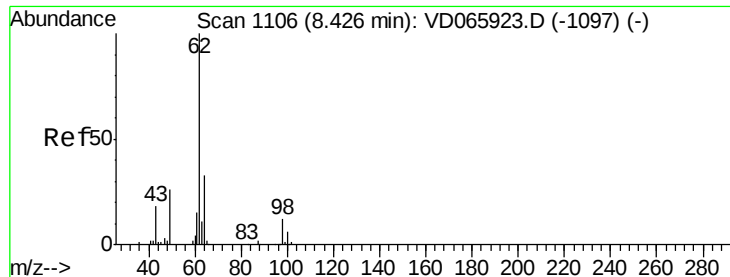
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#42

1,2-Dichloroethane

Concen: 2.989 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

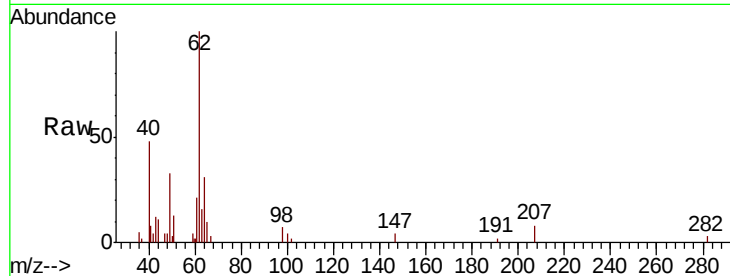
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 62 Resp: 14174

Ion Ratio Lower Upper

62 100

98 11.9 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

8.43

6000

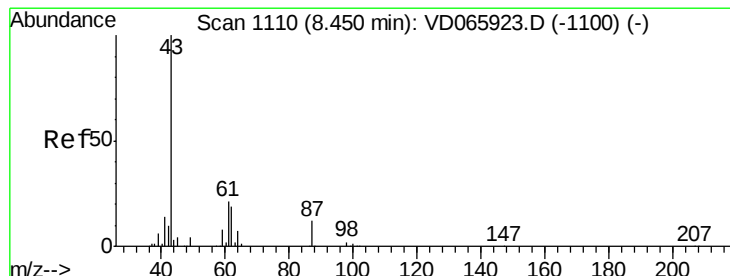
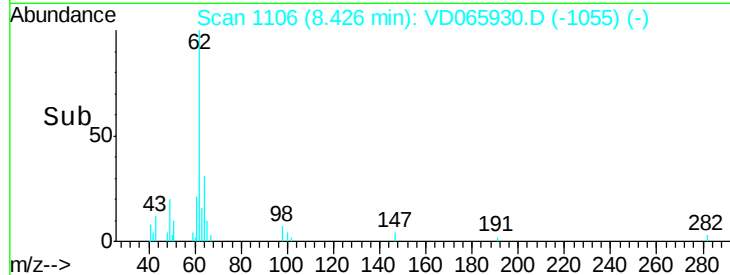
4000

2000

0

8.35 8.40 8.45 8.50

Time-->



#43

Isopropyl Acetate

Concen: 2.926 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

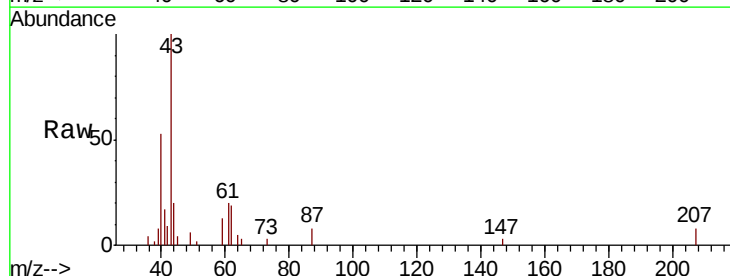
Tgt Ion: 43 Resp: 13826

Ion Ratio Lower Upper

43 100

61 0.0 23.2 34.8#

87 8.2 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

8.46

6000

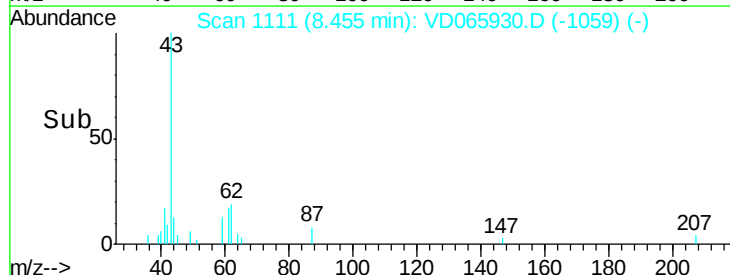
4000

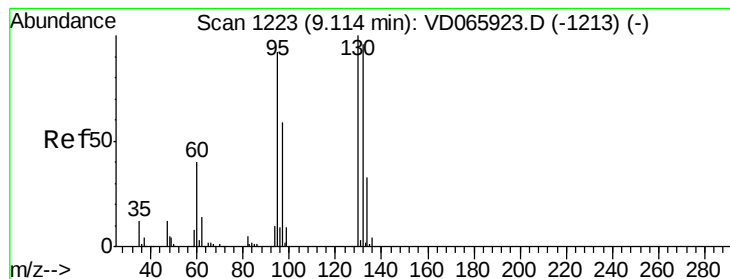
2000

0

8.35 8.40 8.45 8.50 8.55

Time-->





#44

Trichloroethene

Concen: 2.934 ug/l

RT: 9.12 min Scan# 1224

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

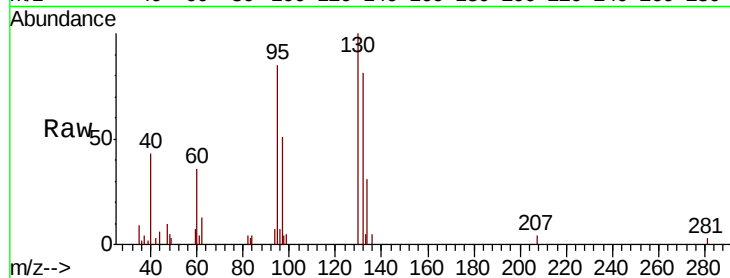
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:130 Resp: 14430

Ion Ratio Lower Upper

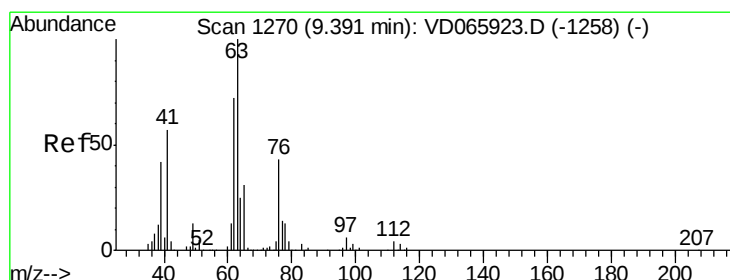
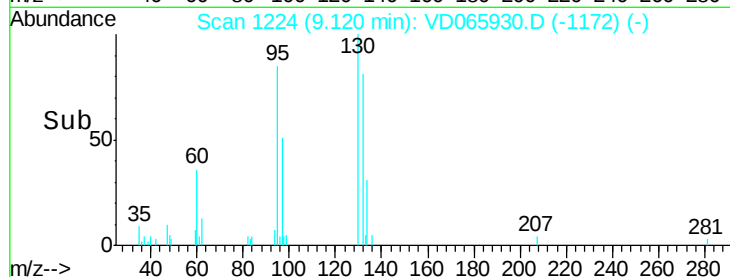
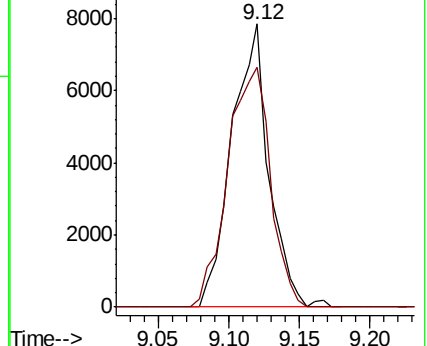
130 100

95 84.8 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 3.060 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD065930.D

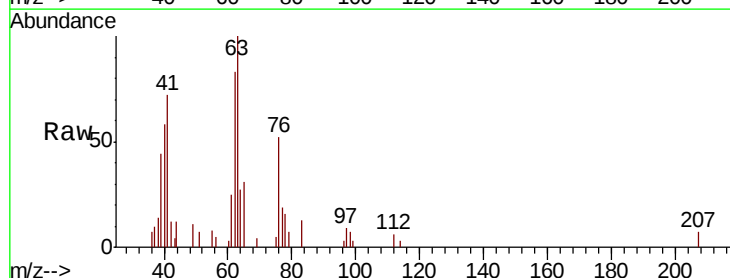
Acq: 07 Jul 2020 19:32

Tgt Ion: 63 Resp: 12713

Ion Ratio Lower Upper

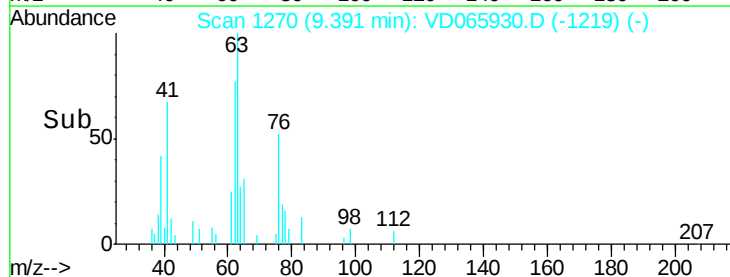
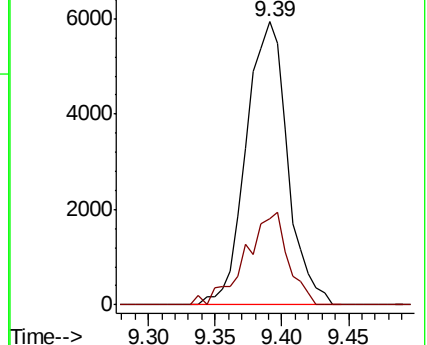
63 100

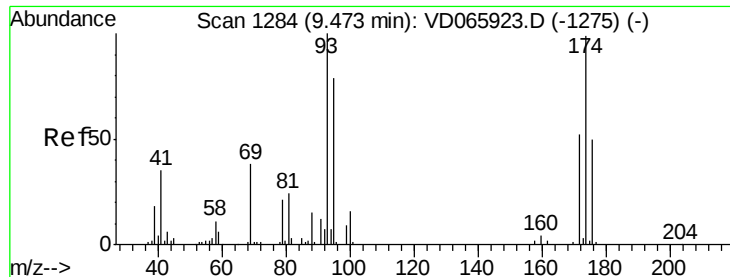
65 30.5 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC





#46

Dibromomethane

Concen: 2.851 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

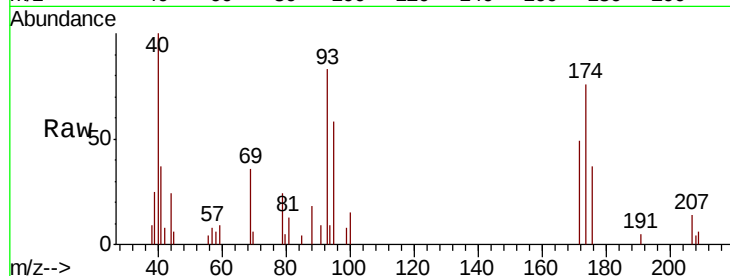
Tot Ion: 93 Resp: 6167

Ion Ratio Lower Upper

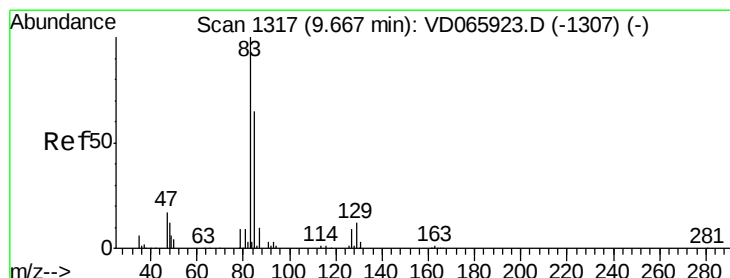
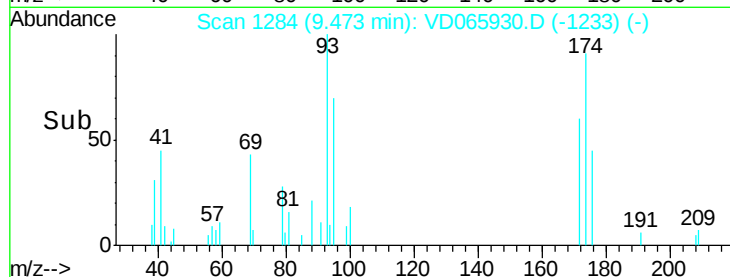
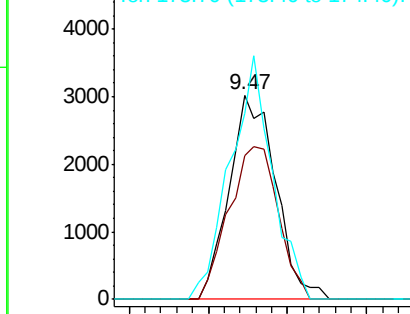
93 100

95 79.4 68.2 102.2

174 107.2 88.0 132.0



Abundance Ion 92.80 (92.50 to 93.50): VDC
Ion 94.80 (94.50 to 95.50): VDC
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 2.911 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

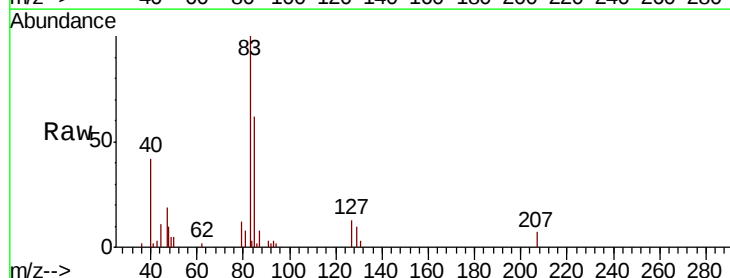
Tgt Ion: 83 Resp: 16890

Ion Ratio Lower Upper

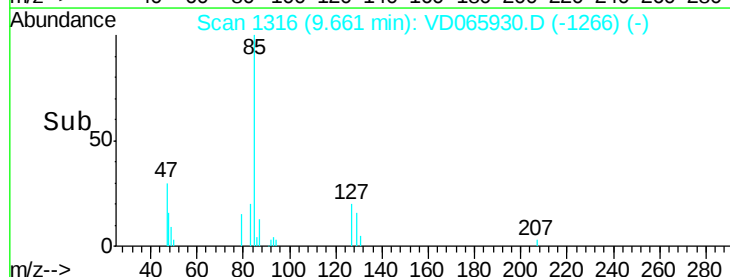
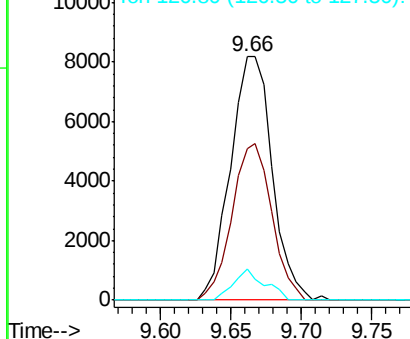
83 100

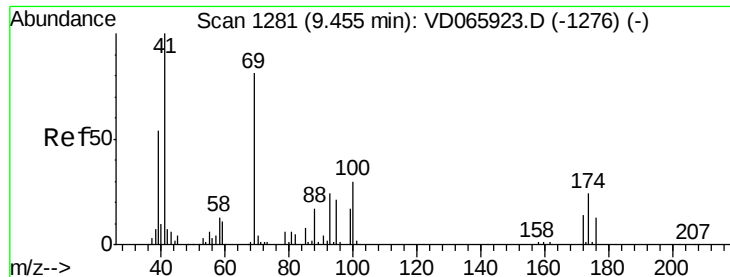
85 62.4 51.6 77.4

127 12.8 7.2 10.8#



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

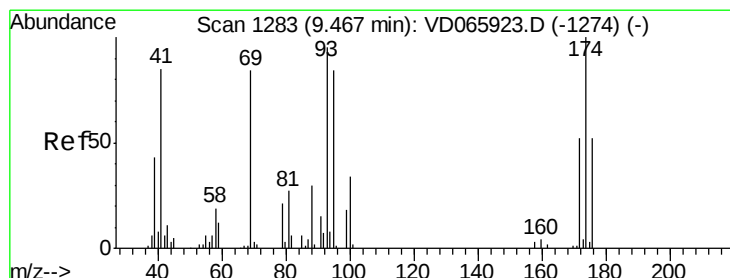
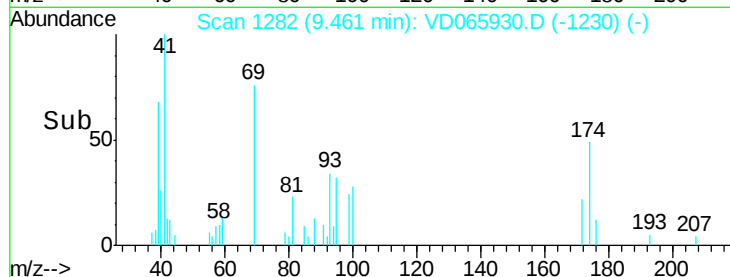
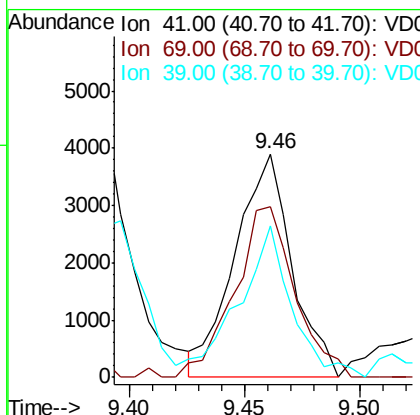
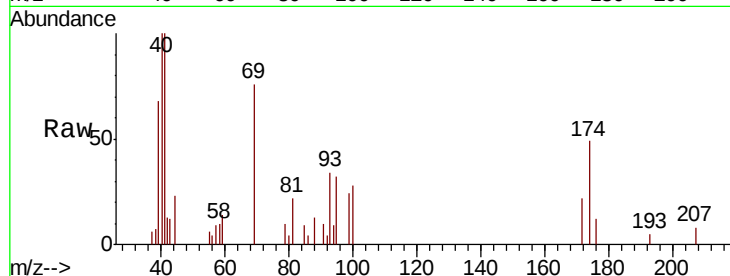




#48
Methvl methacrylate
Concen: 2.815 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

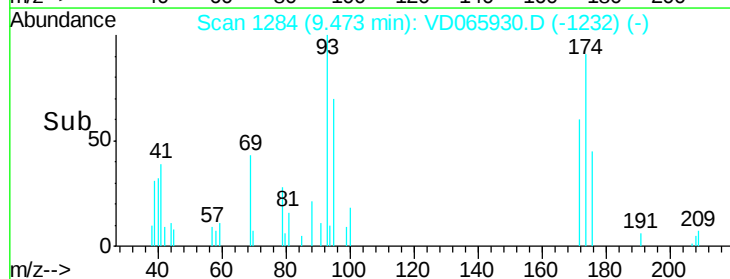
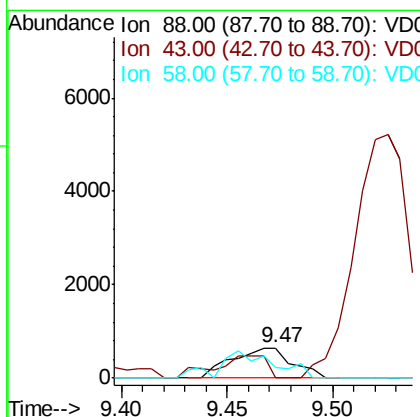
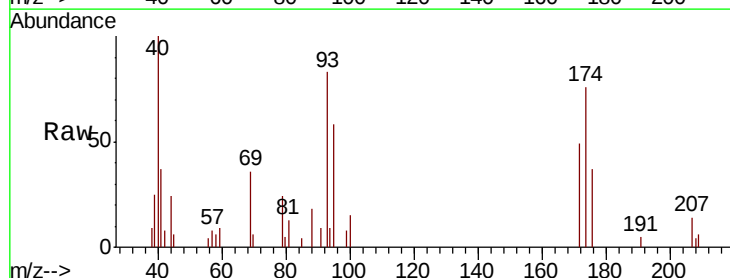
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

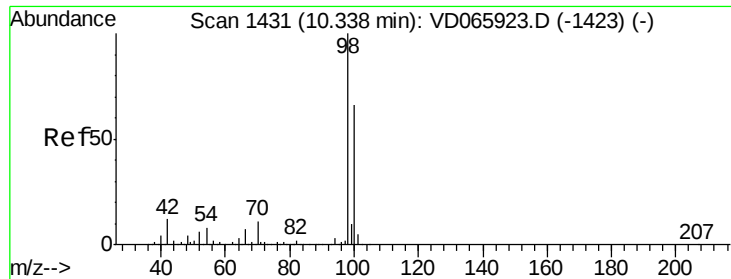
Tot Ion: 41 Resp: 6697
Ion Ratio Lower Upper
41 100
69 81.0 62.2 93.4
39 63.7 39.9 59.9#



#49
1,4-Dioxane
Concen: 49.925 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 88 Resp: 1283
Ion Ratio Lower Upper
88 100
43 62.2 28.2 42.4#
58 81.5 58.6 87.8





#50

Toluene-d8

Concen: 50.355 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

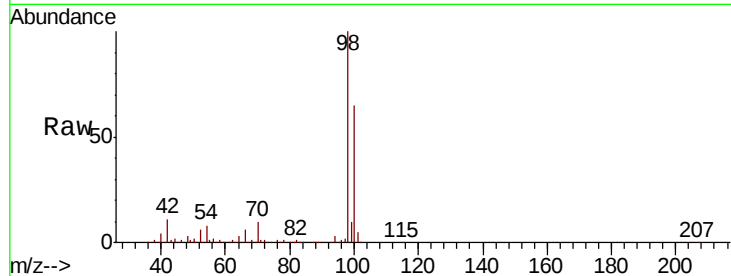
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 98 Resp: 695269

Ion Ratio Lower Upper

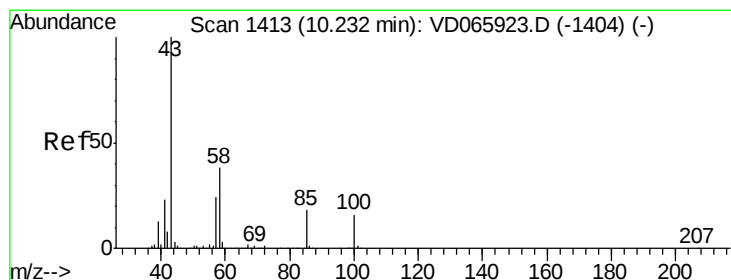
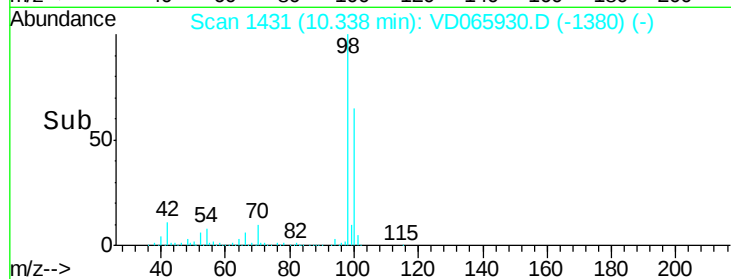
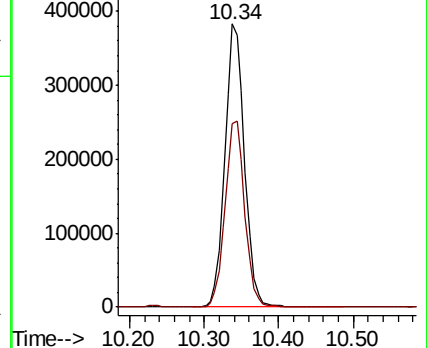
98 100

100 66.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 13.564 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD065930.D

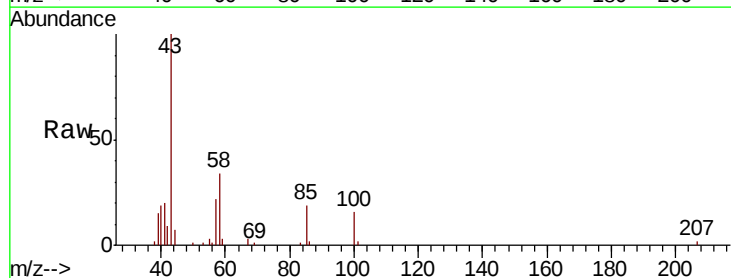
Acq: 07 Jul 2020 19:32

Tgt Ion: 43 Resp: 32402

Ion Ratio Lower Upper

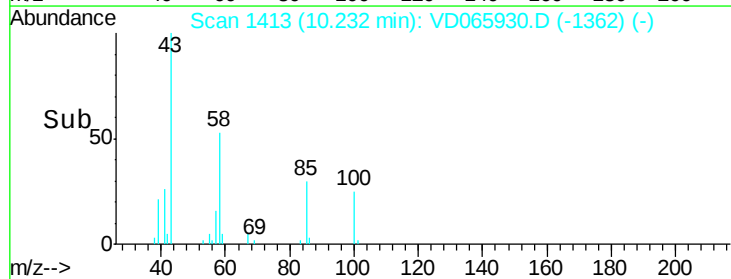
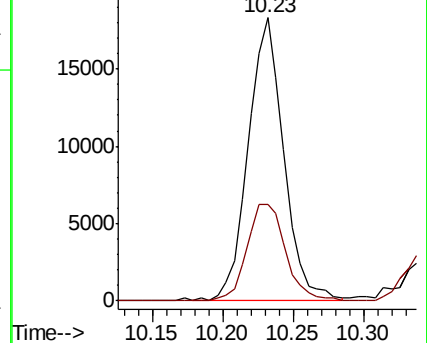
43 100

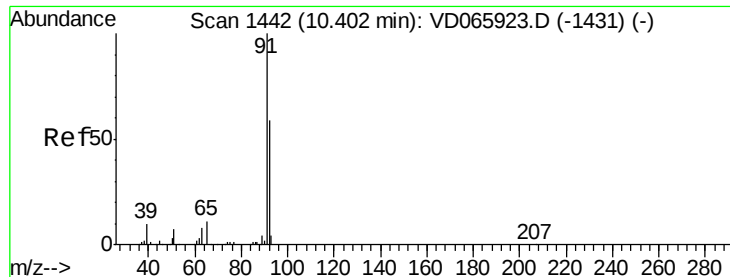
58 37.2 30.5 45.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#52

Toluene

Concen: 2.929 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

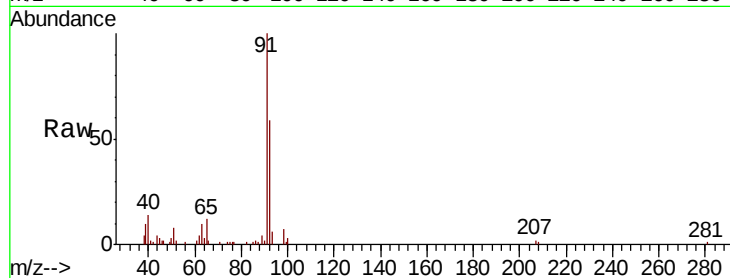
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 92 Resp: 31186

Ion Ratio Lower Upper

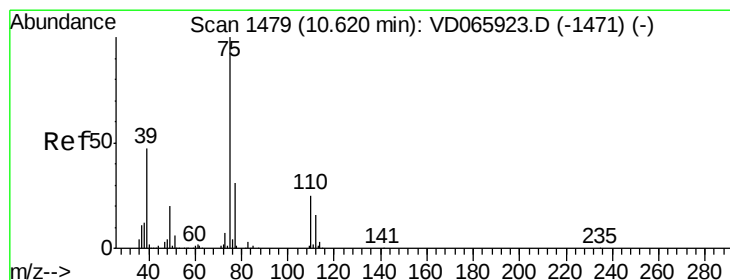
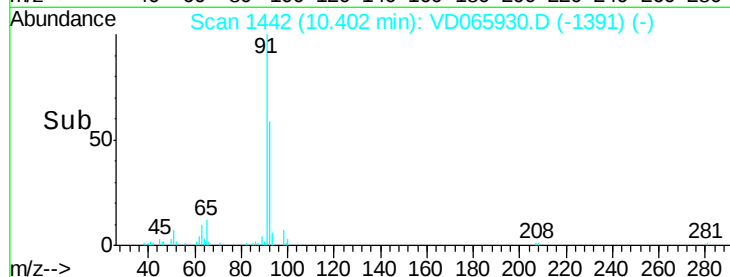
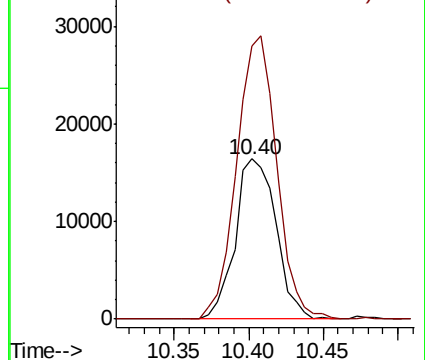
92 100

91 173.2 136.0 204.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#53

t-1,3-Dichloropropene

Concen: 2.825 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.00 min

Lab File: VD065930.D

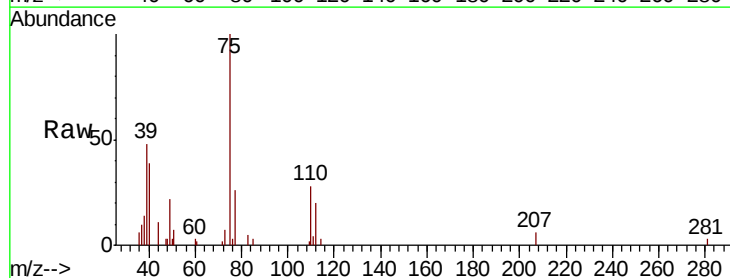
Acq: 07 Jul 2020 19:32

Tgt Ion: 75 Resp: 15411

Ion Ratio Lower Upper

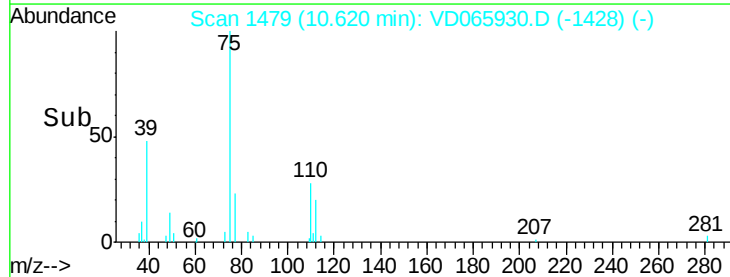
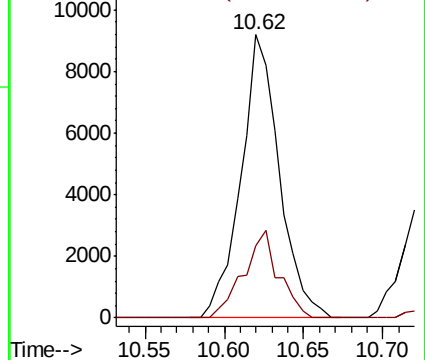
75 100

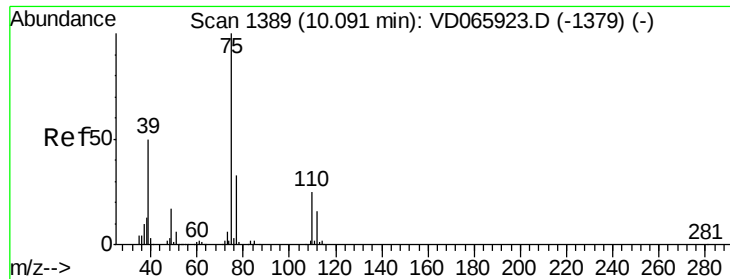
77 25.7 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC





#54

cis-1,3-Dichloropropene

Concen: 2.659 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

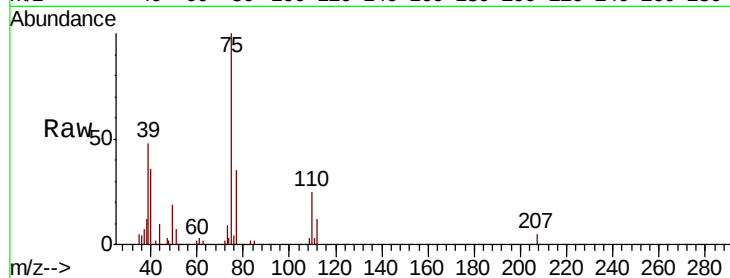
Tot Ion: 75 Resp: 17526

Ion Ratio Lower Upper

75 100

77 35.0 26.6 39.8

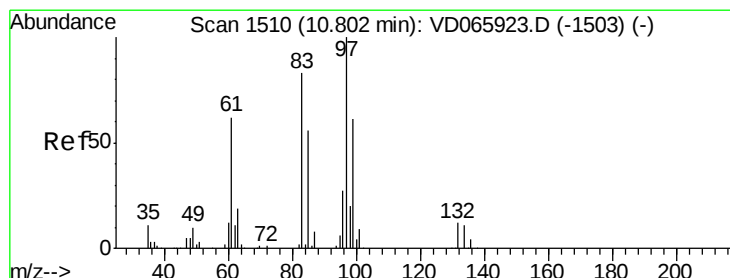
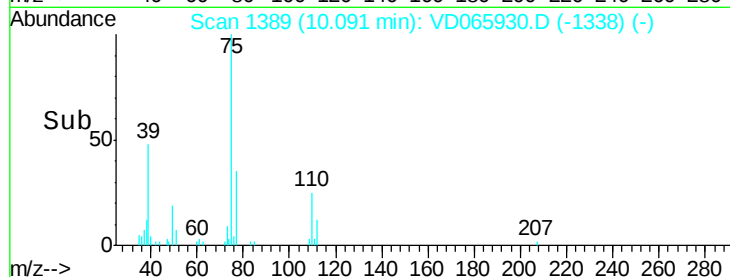
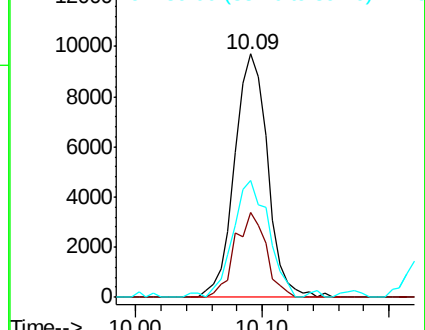
39 46.3 39.6 59.4



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC



#55

1,1,2-Trichloroethane

Concen: 3.027 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Tgt Ion: 97 Resp: 9021

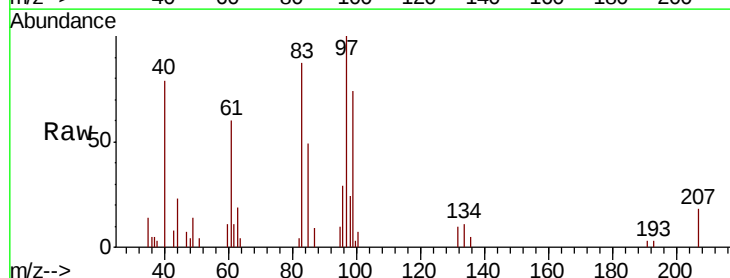
Ion Ratio Lower Upper

97 100

83 87.3 66.9 100.3

85 49.2 44.5 66.7

99 74.0 49.2 73.8#

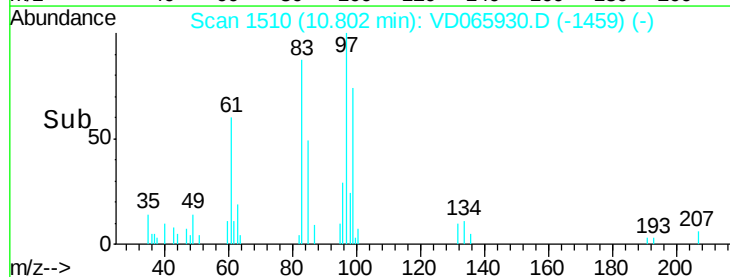
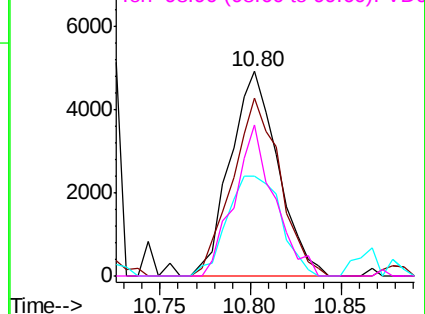


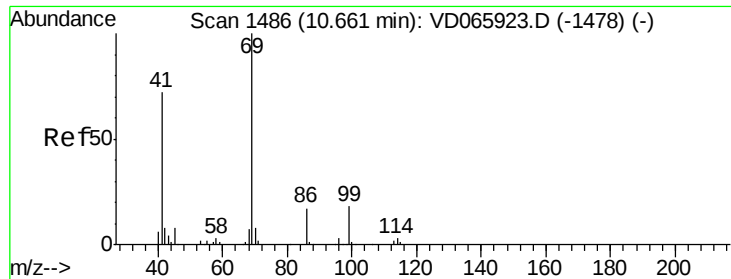
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 2.666 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

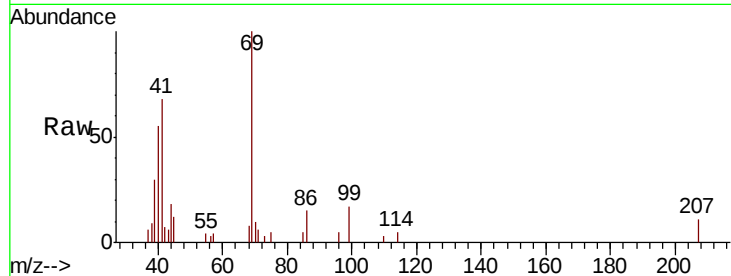
Tot Ion: 69 Resp: 9702

Ion Ratio Lower Upper

69 100

41 72.9 56.5 84.7

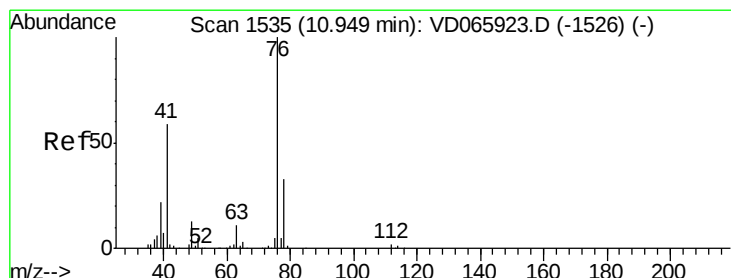
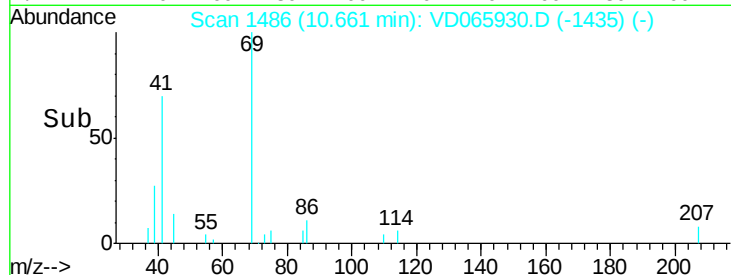
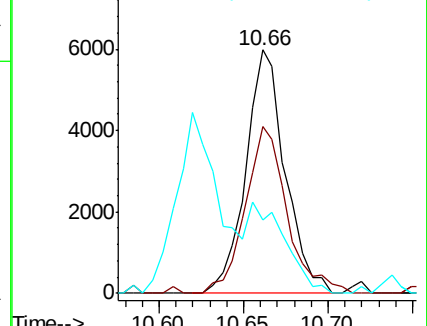
39 34.3 29.2 43.8



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#57

1,3-Dichloropropane

Concen: 2.765 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD065930.D

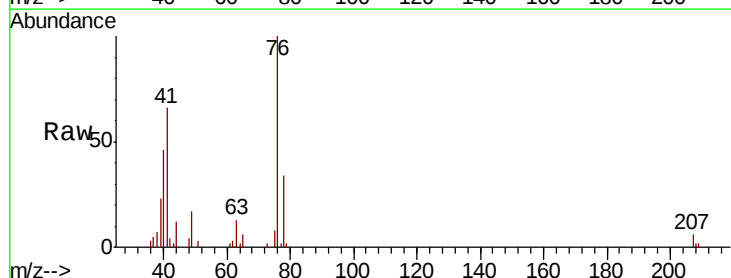
Acq: 07 Jul 2020 19:32

Tgt Ion: 76 Resp: 14411

Ion Ratio Lower Upper

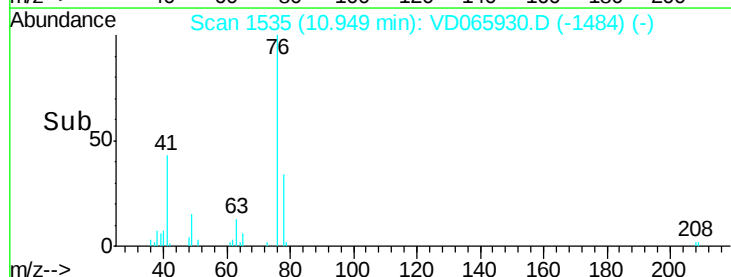
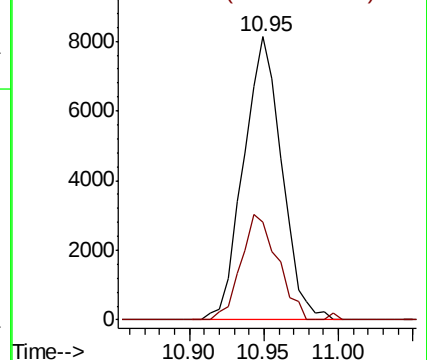
76 100

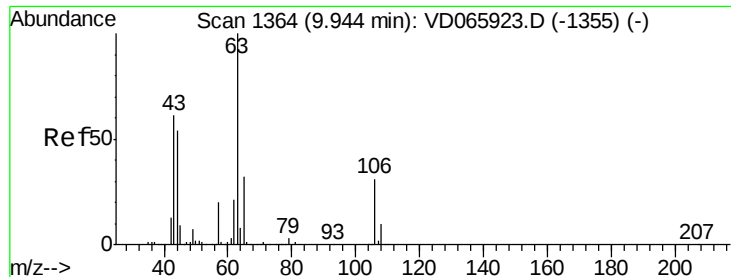
78 35.8 25.8 38.6



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

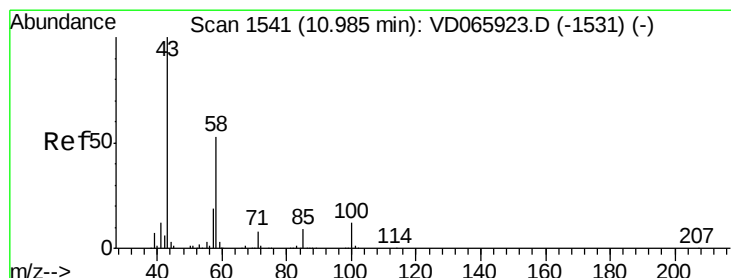
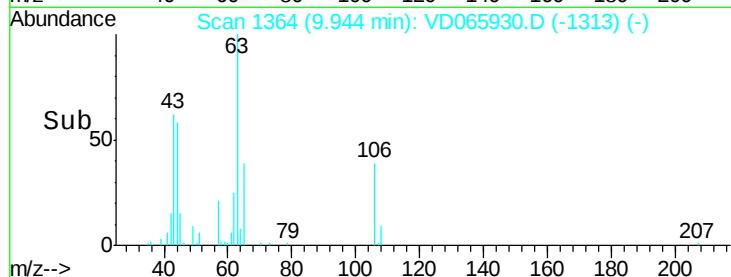
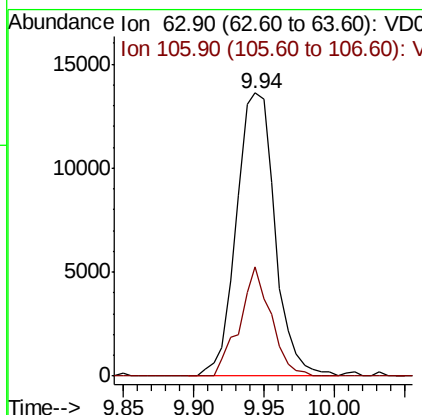
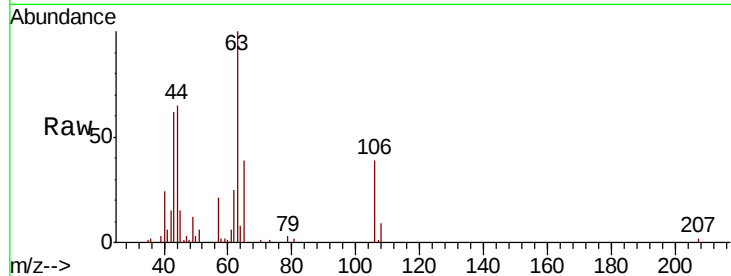




#58
2-Chloroethyl Vinyl ether
Concen: 14.712 ug/l
RT: 9.94 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

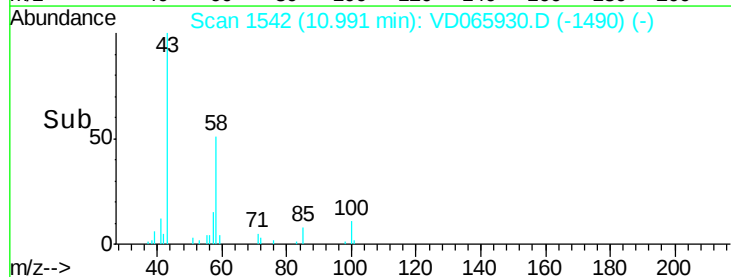
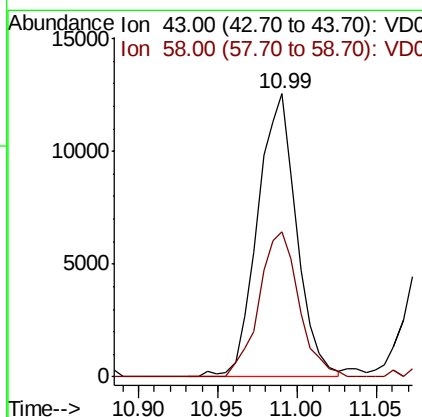
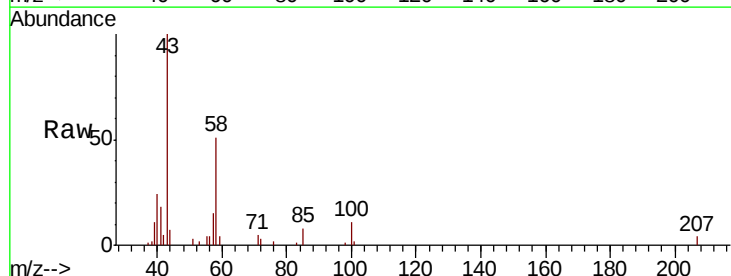
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

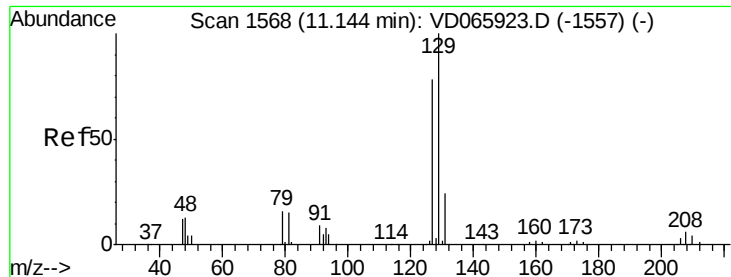
Tot Ion: 63 Resp: 25933
Ion Ratio Lower Upper
63 100
106 31.5 23.8 35.6



#59
2-Hexanone
Concen: 13.072 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 43 Resp: 21476
Ion Ratio Lower Upper
43 100
58 52.4 26.6 79.8

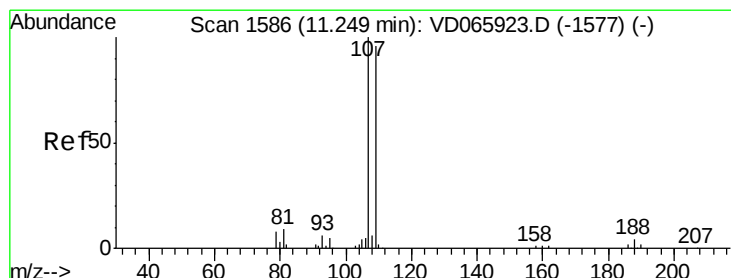
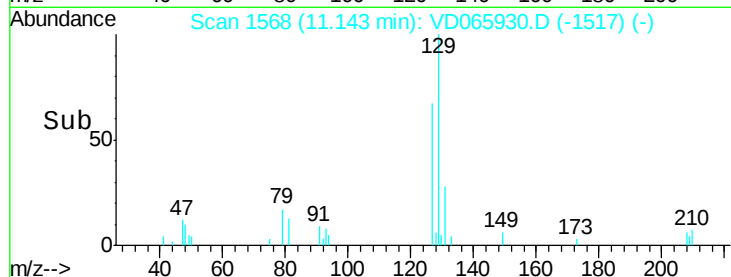
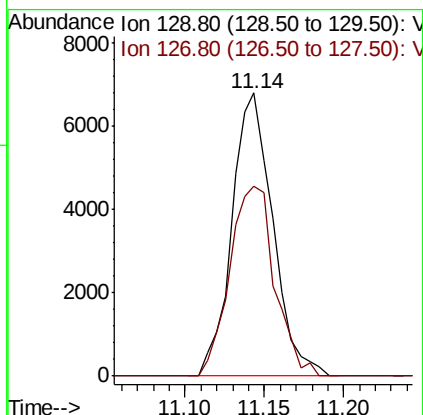
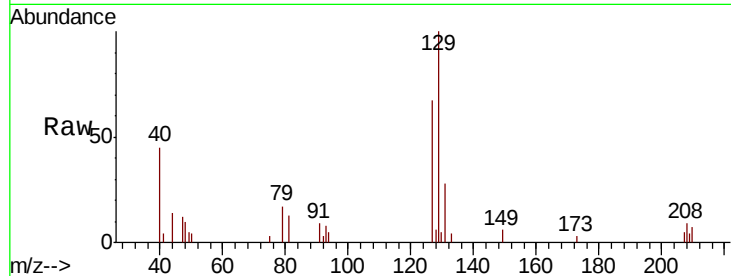




#60
Dibromochloromethane
Concen: 2.990 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

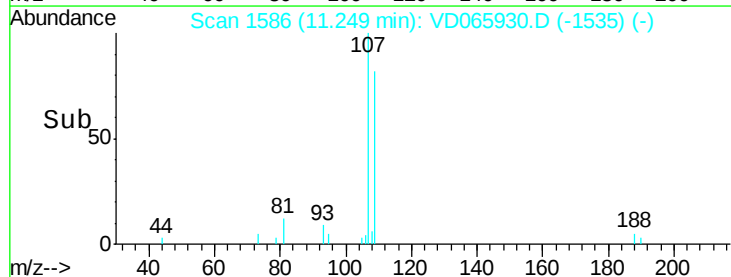
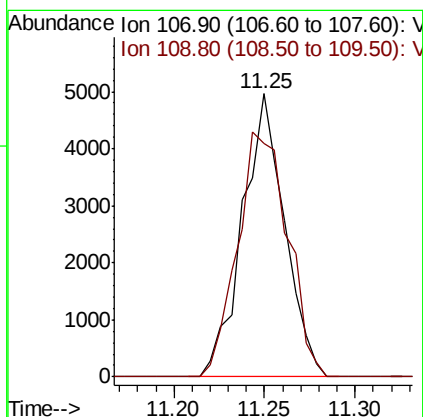
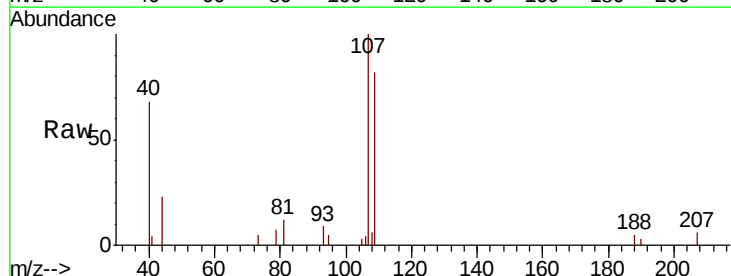
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

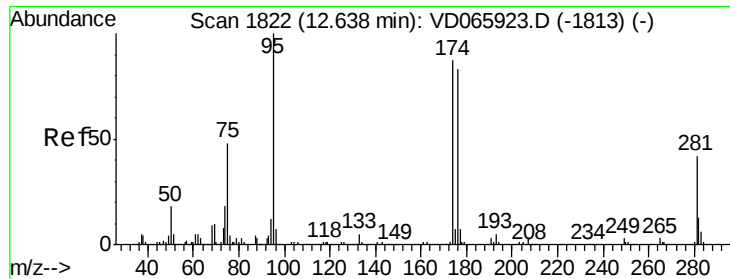
Tot Ion:129 Resp: 12174
Ion Ratio Lower Upper
129 100
127 73.6 38.8 116.4



#61
1,2-Dibromoethane
Concen: 2.700 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion:107 Resp: 8023
Ion Ratio Lower Upper
107 100
109 102.9 75.4 113.0

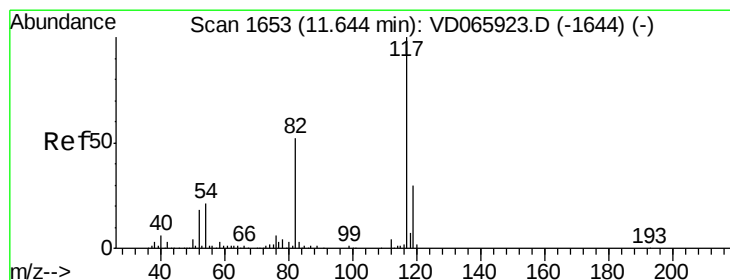
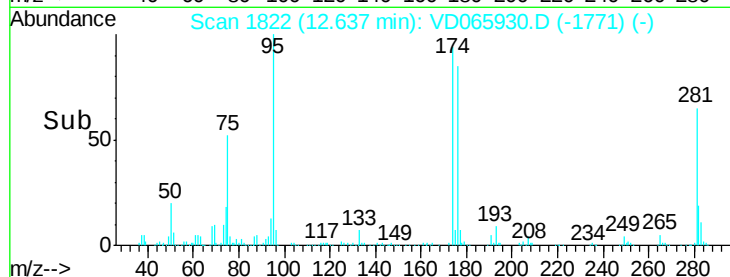
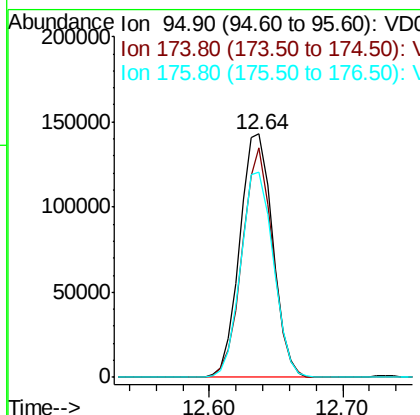
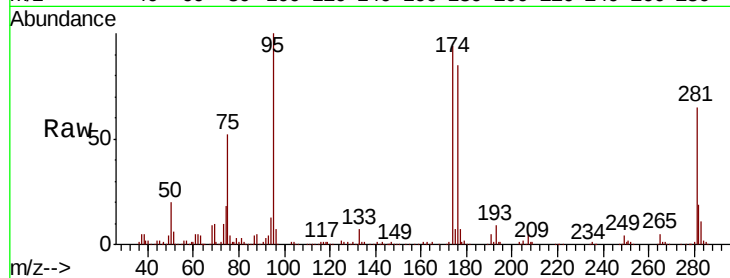




#62
4-Bromofluorobenzene
Concen: 51.465 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

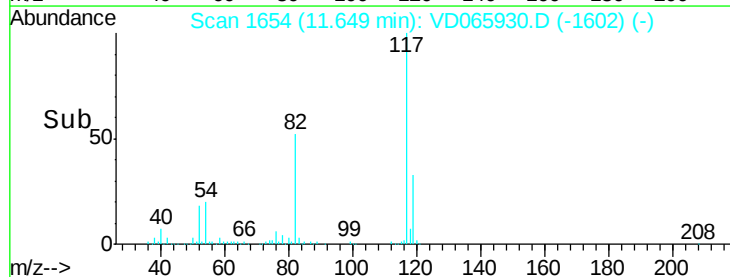
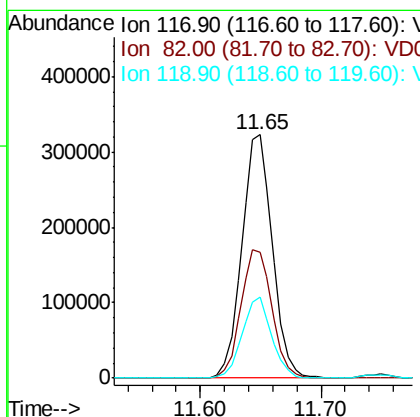
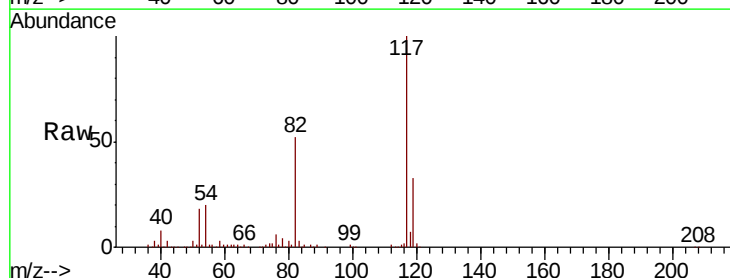
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

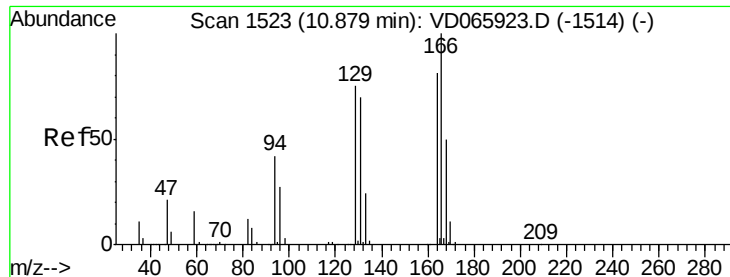
Tot Ion: 95 Resp: 244024
Ion Ratio Lower Upper
95 100
174 86.6 0.0 169.4
176 83.7 0.0 164.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 117 Resp: 567032
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 33.3 24.3 36.5





#64

Tetrachloroethene

Concen: 3.431 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:164 Resp: 14149

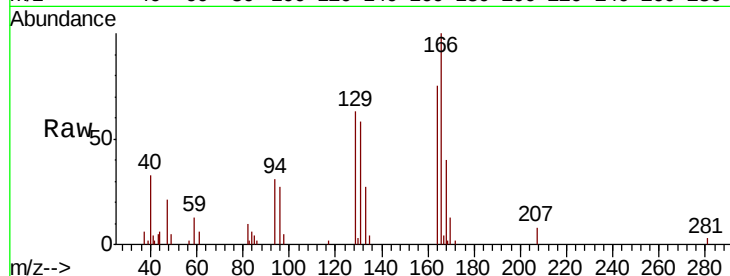
Ion Ratio Lower Upper

164 100

166 133.7 99.0 148.4

129 84.1 73.9 110.9

131 77.9 69.6 104.4

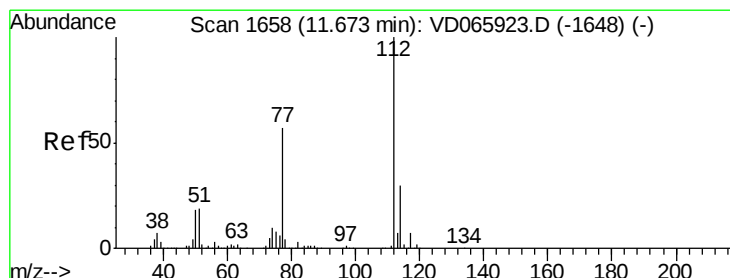
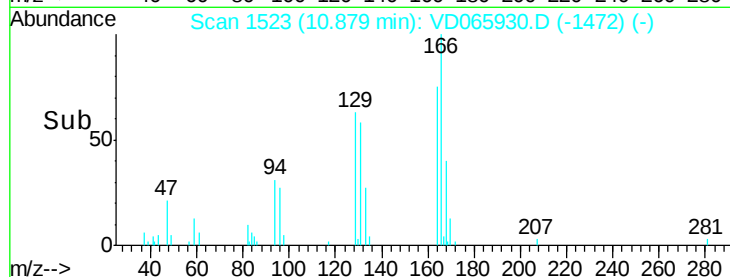
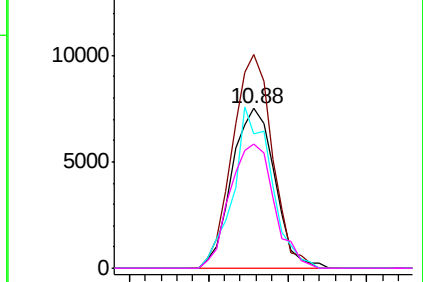


Abundance Ion 163.80 (163.50 to 164.50): V

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: 2.999 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VD065930.D

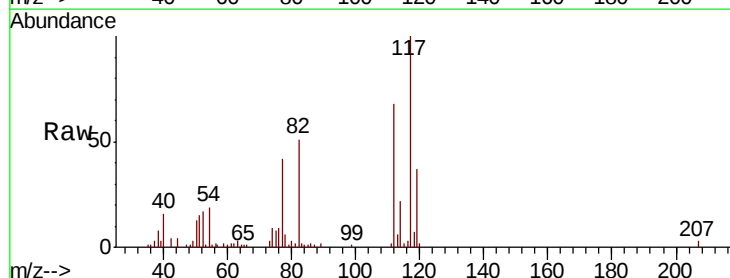
Acq: 07 Jul 2020 19:32

Tgt Ion:112 Resp: 34269

Ion Ratio Lower Upper

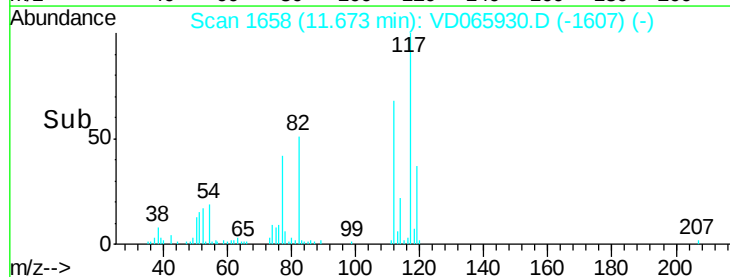
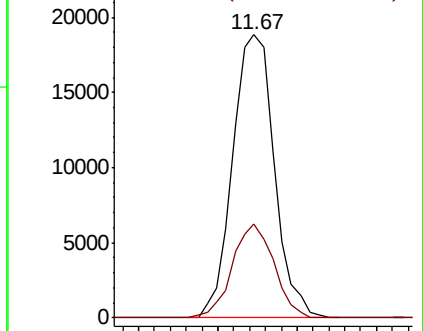
112 100

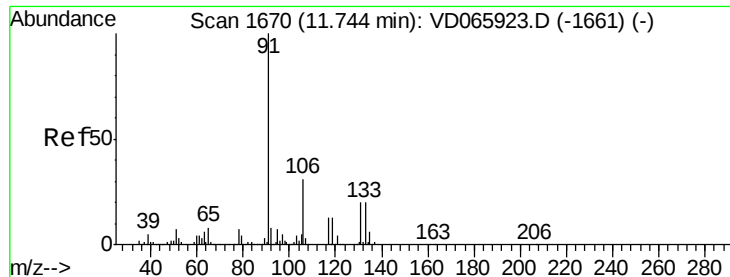
114 33.0 24.2 36.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 2.899 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

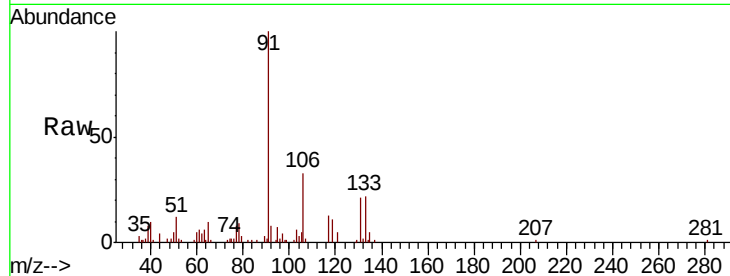
Tot Ion:131 Resp: 12392

Ion Ratio Lower Upper

131 100

133 103.0 47.9 143.6

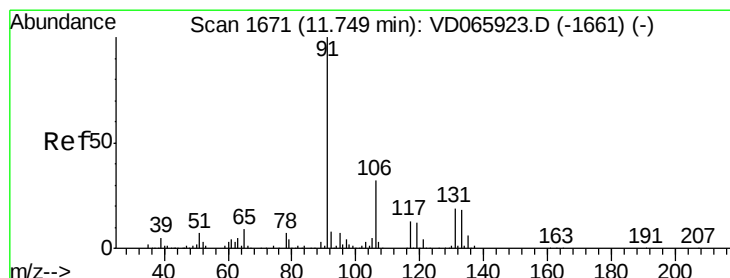
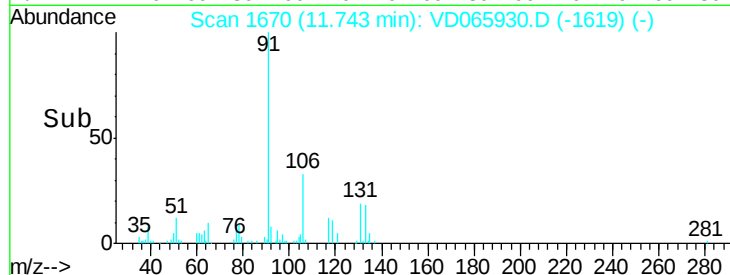
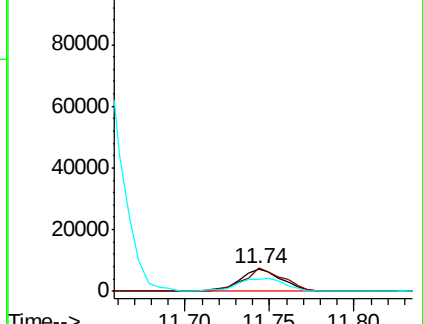
119 65.3 31.9 95.9



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 2.960 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065930.D

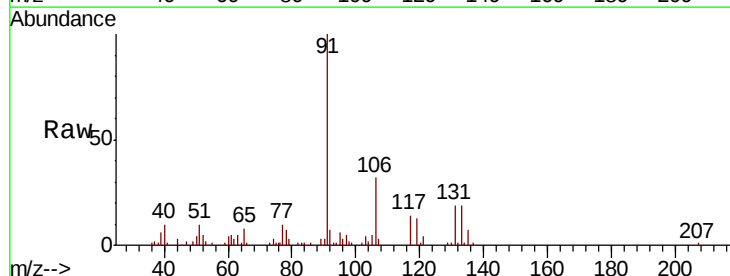
Acq: 07 Jul 2020 19:32

Tgt Ion: 91 Resp: 60083

Ion Ratio Lower Upper

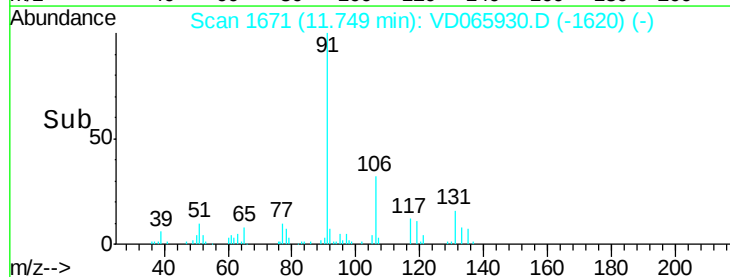
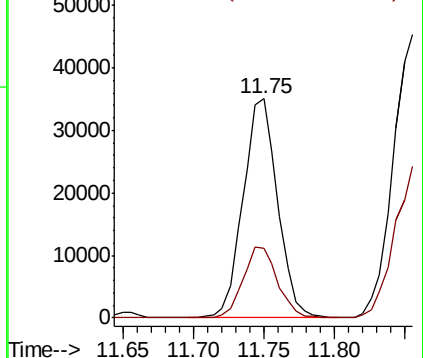
91 100

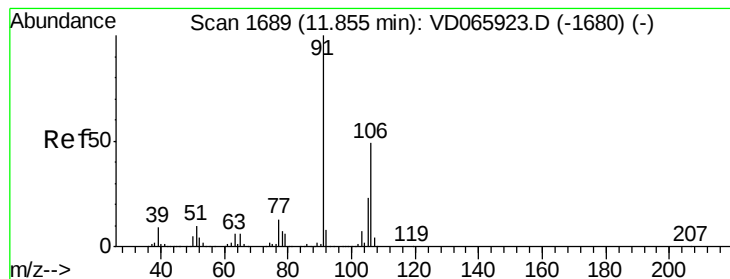
106 31.5 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 5.799 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

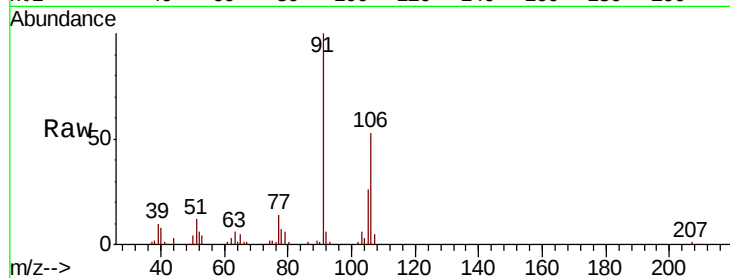
LOD-MDL-SOIL-01-QT3-2020

Tot Ion:106 Resp: 44723

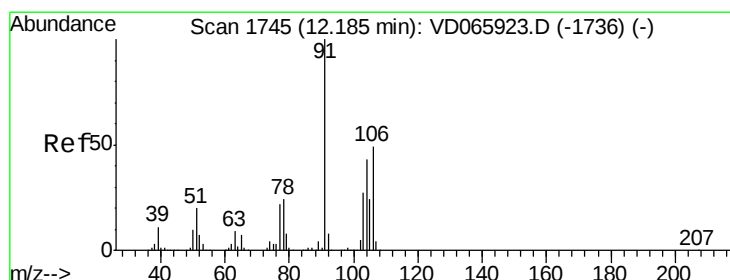
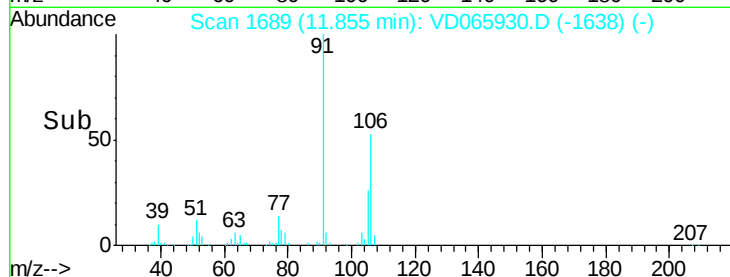
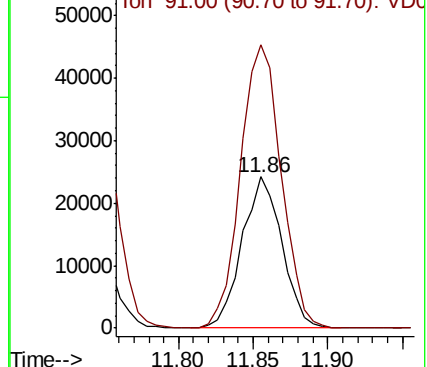
Ion Ratio Lower Upper

106 100

91 192.2 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 2.733 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VD065930.D

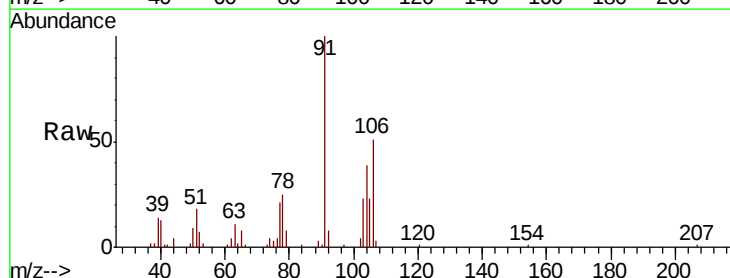
Acq: 07 Jul 2020 19:32

Tgt Ion:106 Resp: 19201

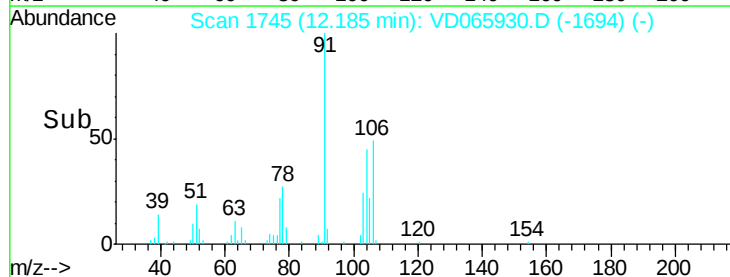
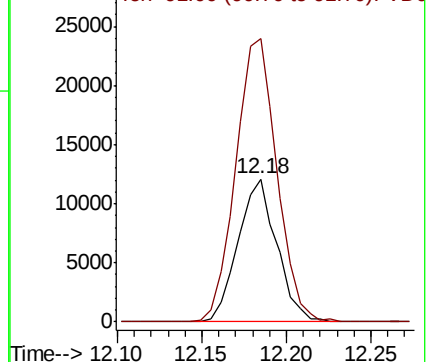
Ion Ratio Lower Upper

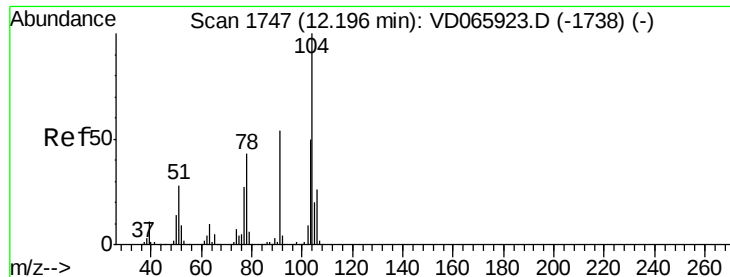
106 100

91 211.3 104.1 312.2



Abundance Ion 106.00 (105.70 to 106.70): V

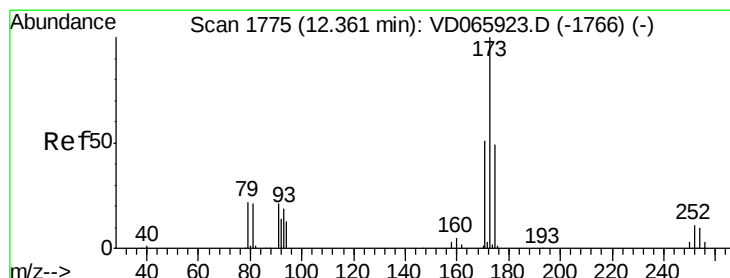
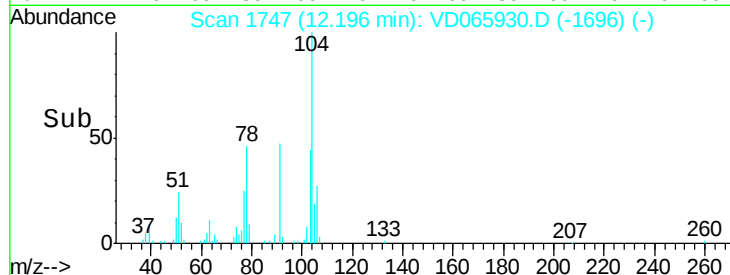
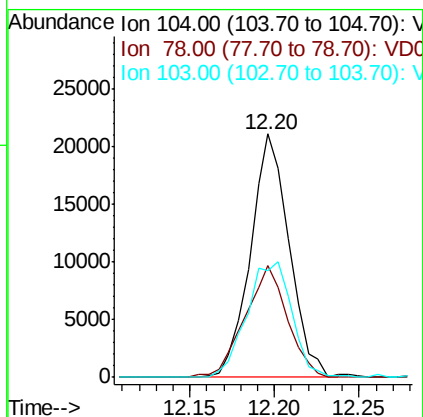
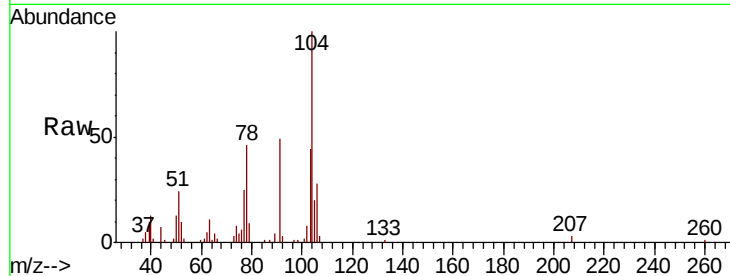




#70
Stvrene
Concen: 2.763 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

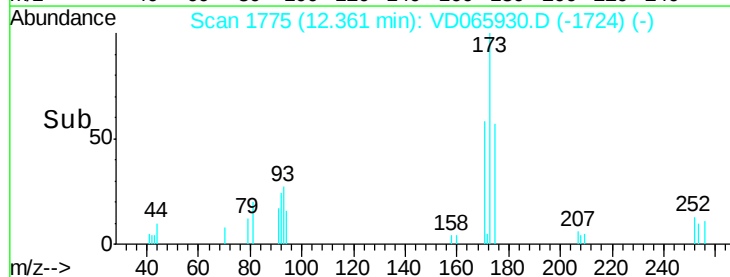
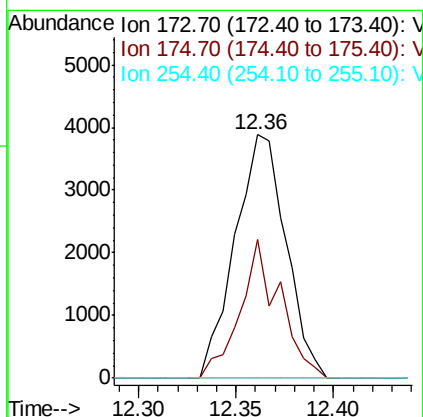
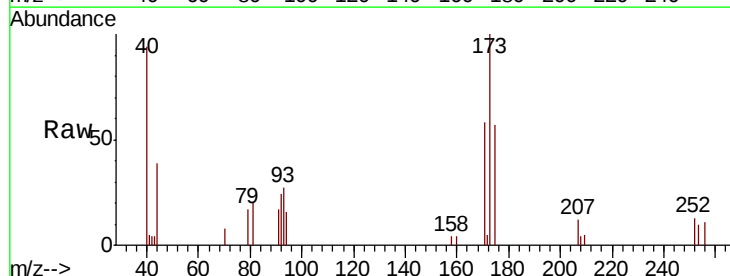
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

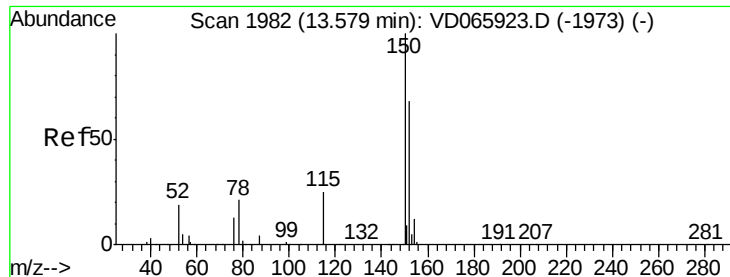
Tot Ion:104 Resp: 33504
Ion Ratio Lower Upper
104 100
78 50.0 38.8 58.2
103 55.3 43.6 65.4



#71
Bromoform
Concen: 2.899 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion:173 Resp: 7010
Ion Ratio Lower Upper
173 100
175 44.6 24.2 72.6
254 0.0 0.0 0.0



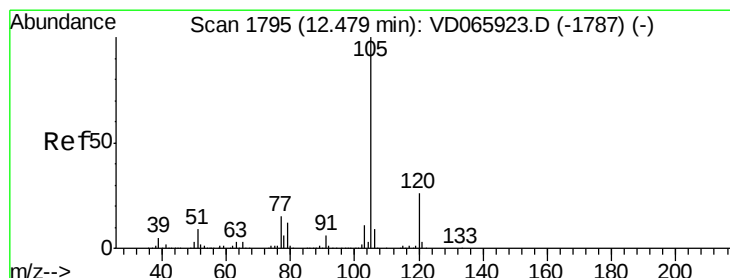
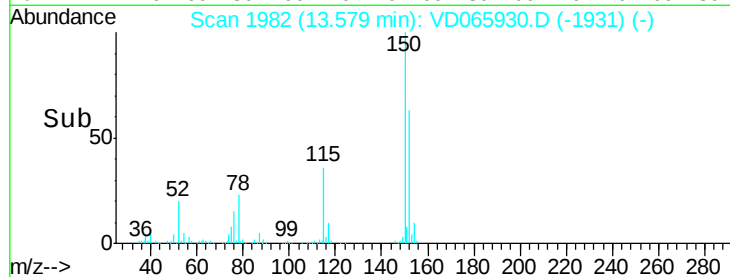
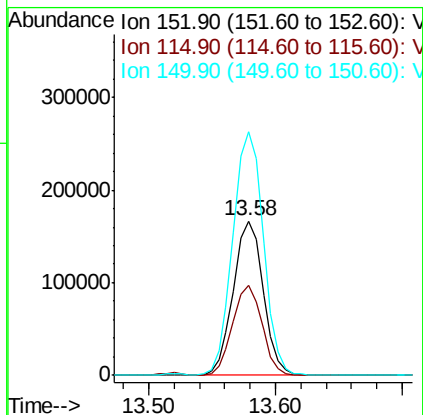
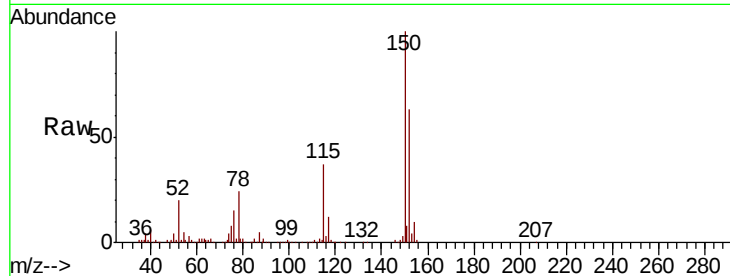


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

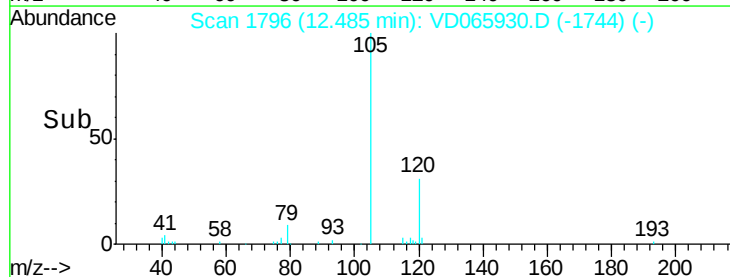
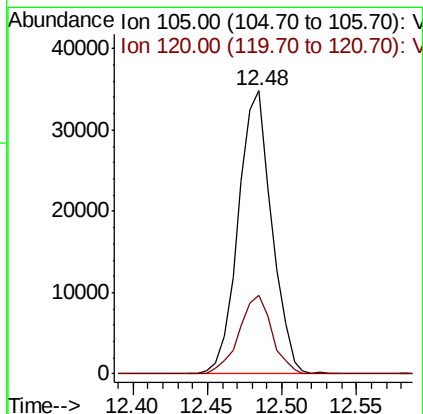
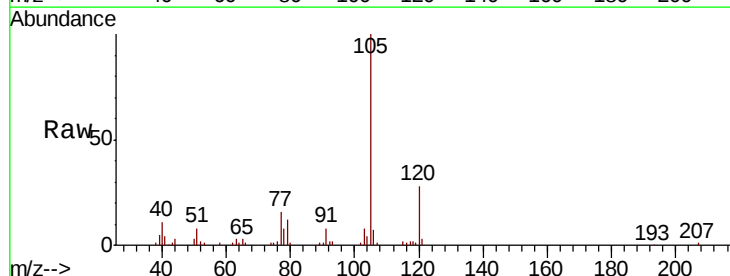
Tot Ion:152 Resp: 271798
Ion Ratio Lower Upper
152 100
115 57.3 27.8 83.3
150 161.5 0.0 347.2

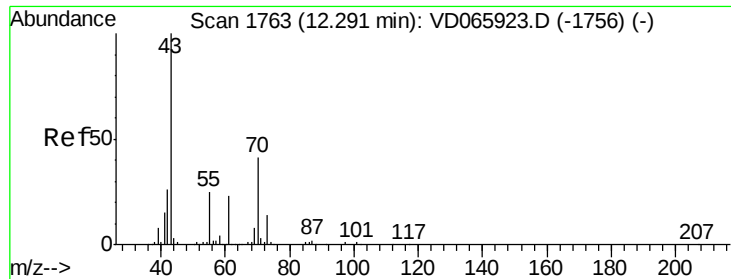


#73

Isopropylbenzene
Concen: 2.848 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.01 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion:105 Resp: 54018
Ion Ratio Lower Upper
105 100
120 27.3 13.3 39.8

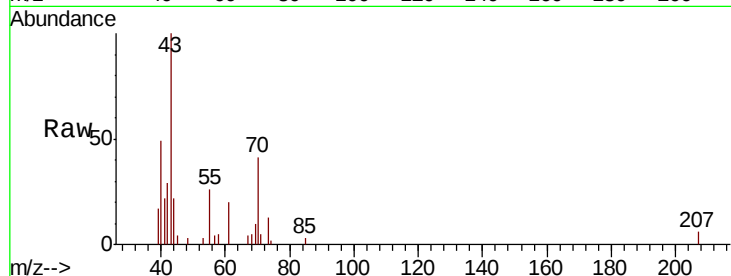




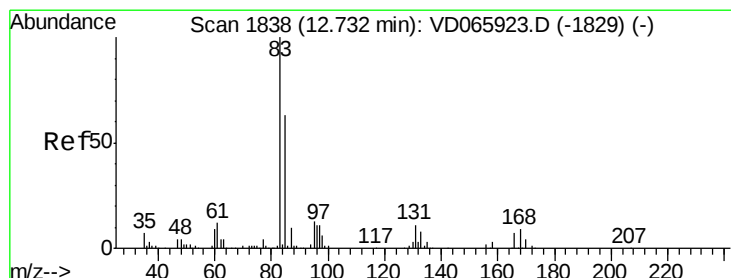
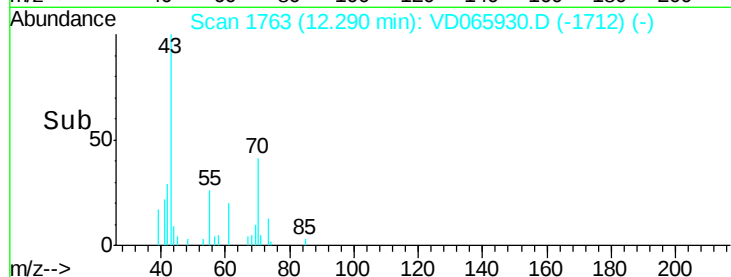
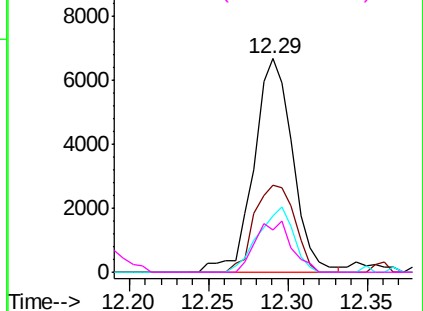
#74
N-amvl acetate
Concen: 2.676 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 11390
Ion Ratio Lower Upper
43 100
70 42.1 33.6 50.4
55 27.8 20.1 30.1
61 21.9 18.9 28.3

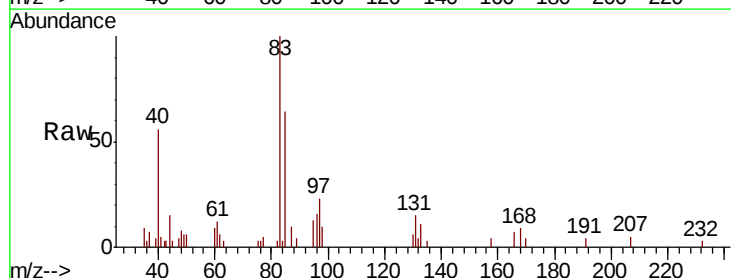


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC

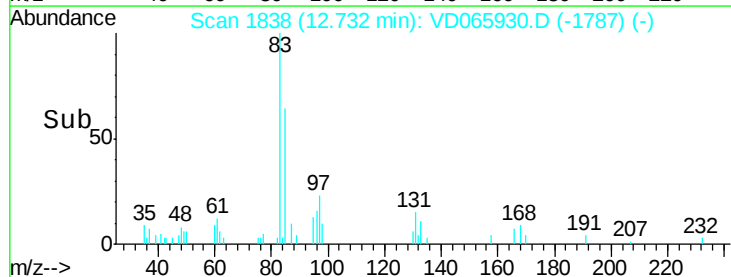
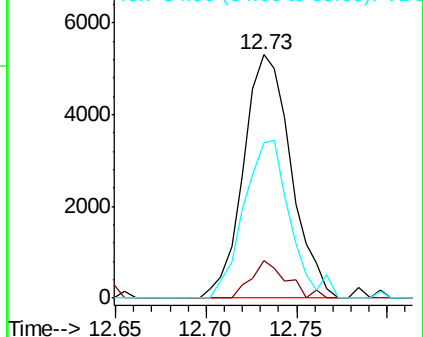


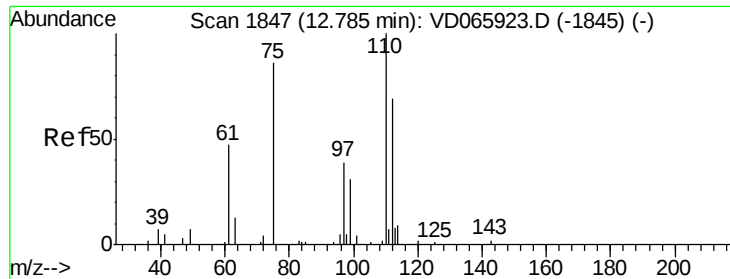
#75
1,1,2,2-Tetrachloroethane
Concen: 3.077 ug/l
RT: 12.73 min Scan# 1838
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion: 83 Resp: 9690
Ion Ratio Lower Upper
83 100
131 11.4 5.6 16.8
85 62.6 32.6 98.0



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC

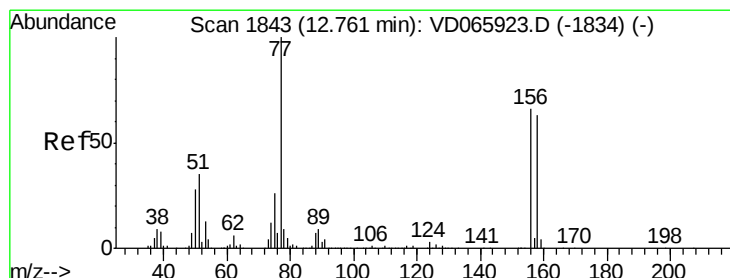
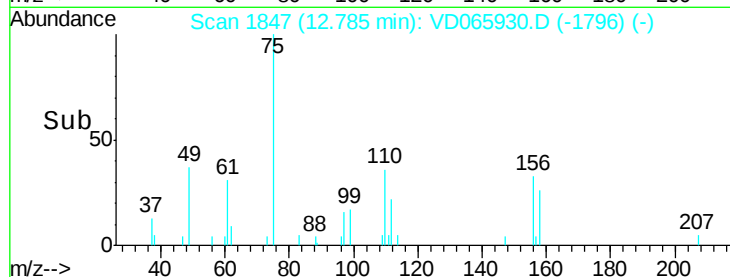
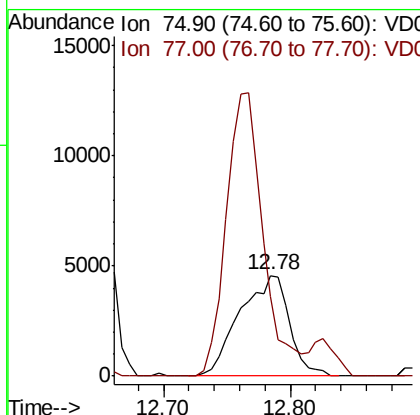
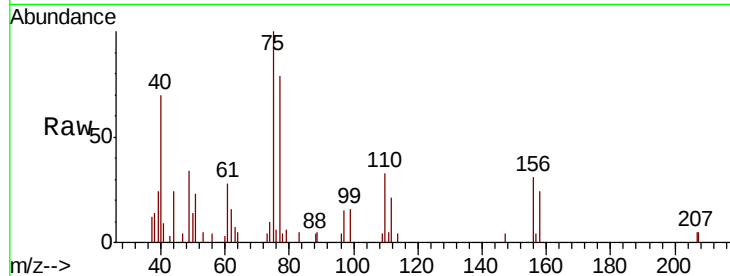




#76
 1,2,3-Trichloropropane
 Concen: 5.434 ug/l
 RT: 12.78 min Scan# 1847
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

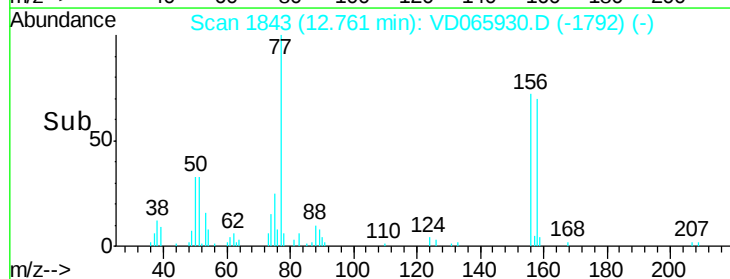
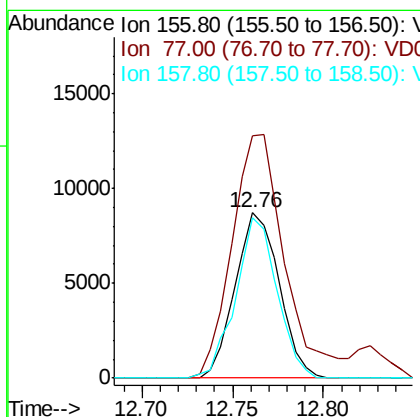
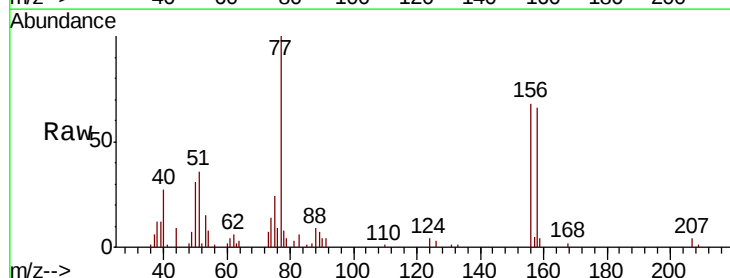
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

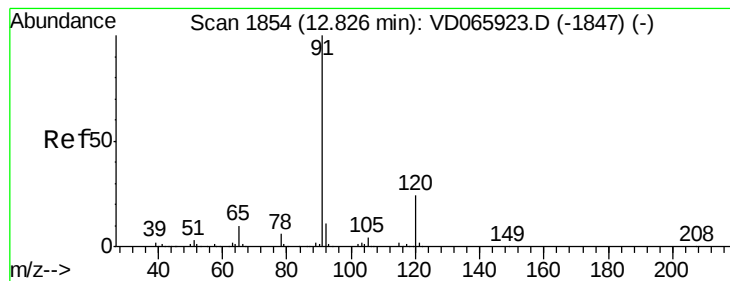
Tot Ion: 75 Resp: 12390
 Ion Ratio Lower Upper
 75 100
 77 208.3 0.0 0.0#



#77
 Bromobenzene
 Concen: 3.200 ug/l
 RT: 12.76 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 156 Resp: 14722
 Ion Ratio Lower Upper
 156 100
 77 175.3 85.0 255.0
 158 91.2 49.0 147.0





#78

n-propylbenzene

Concen: 3.027 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

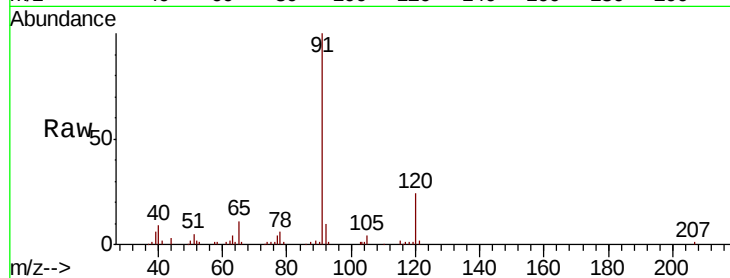
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 91 Resp: 67316

Ion Ratio Lower Upper

91 100

120 24.5 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC

12.82

40000

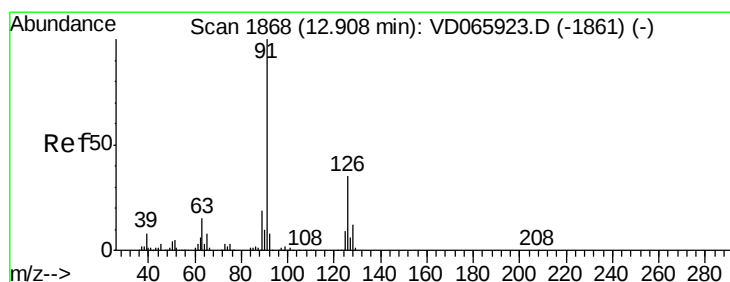
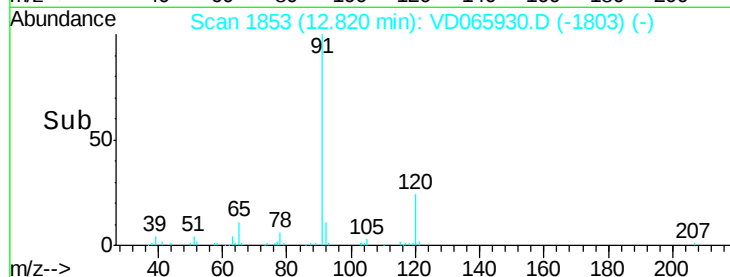
30000

20000

10000

0

Time--> 12.75 12.80 12.85



#79

2-Chlorotoluene

Concen: 2.896 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VD065930.D

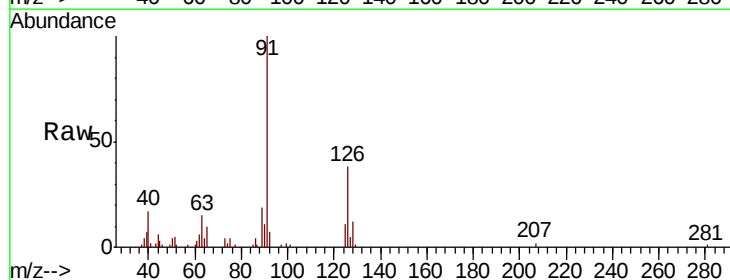
Acq: 07 Jul 2020 19:32

Tgt Ion: 91 Resp: 36531

Ion Ratio Lower Upper

91 100

126 36.6 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): VDC

12.91

25000

20000

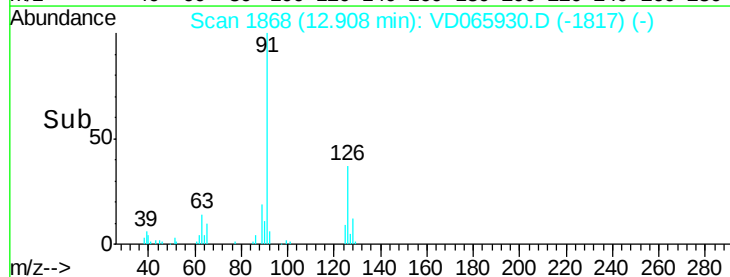
15000

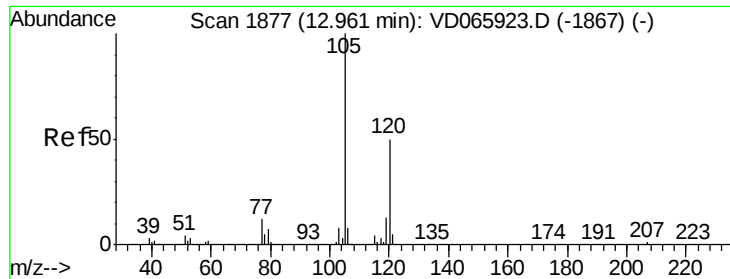
10000

5000

0

Time--> 12.85 12.90 12.95

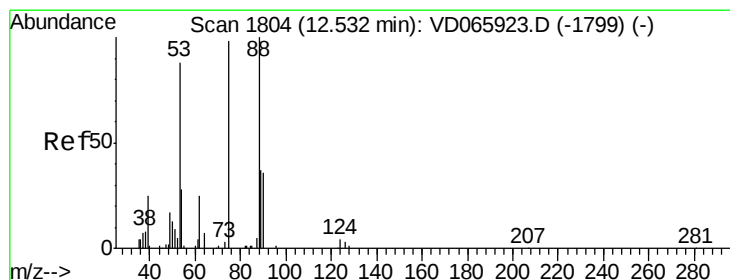
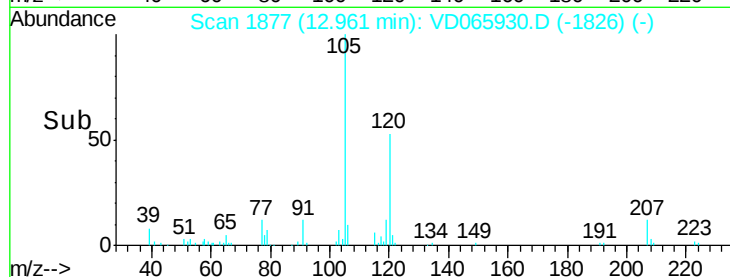
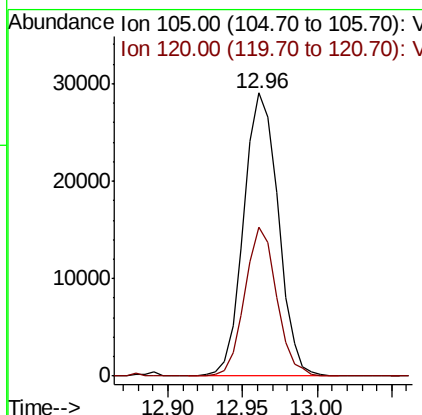
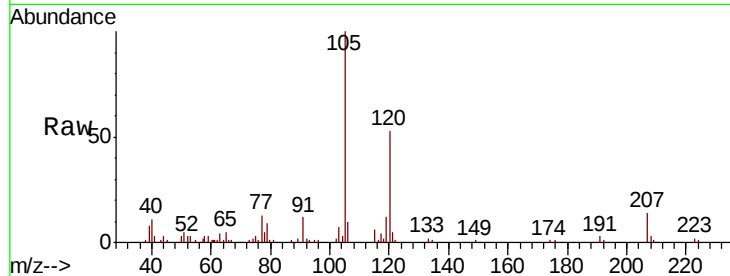




#80
 1,3,5-Trimethylbenzene
 Concen: 2.995 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

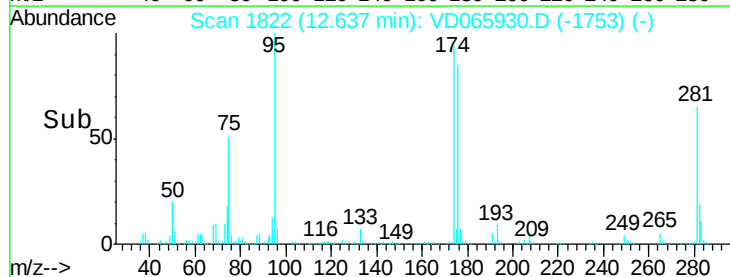
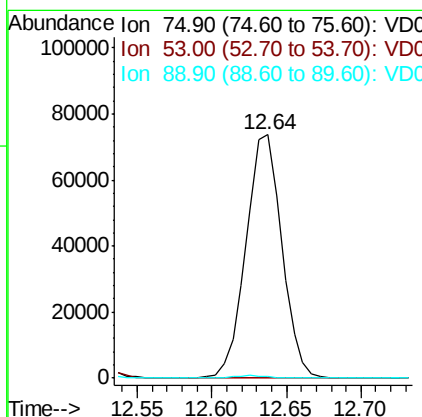
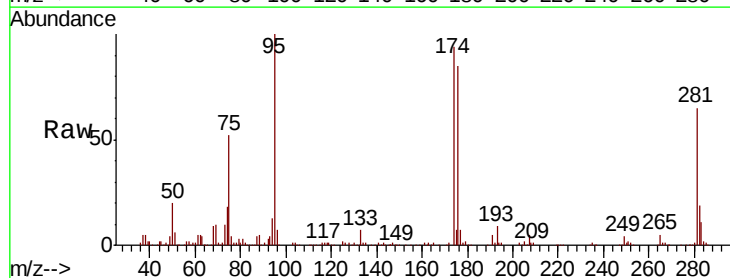
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

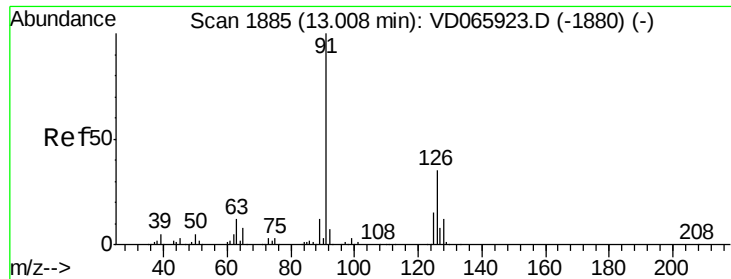
Tot Ion:105 Resp: 46472
 Ion Ratio Lower Upper
 105 100
 120 48.6 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 115.472 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 75 Resp: 122529
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.8 113.8#
 89 0.8 37.5 56.3#





#82

4-Chlorotoluene

Concen: 3.108 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

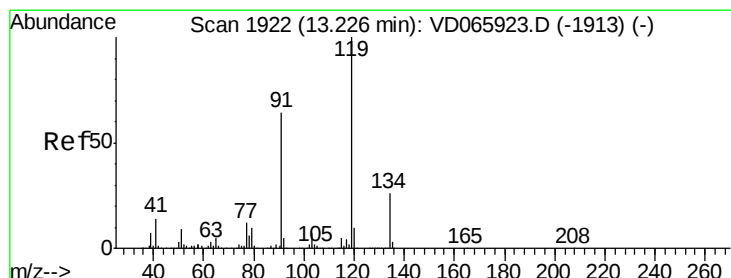
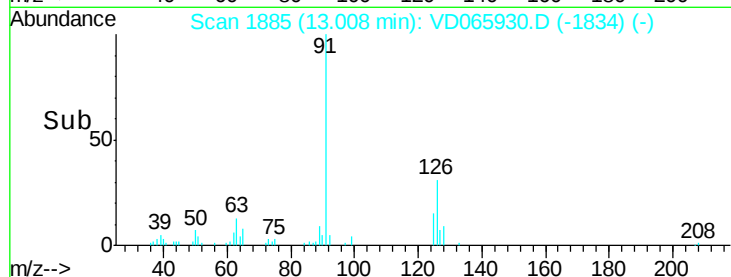
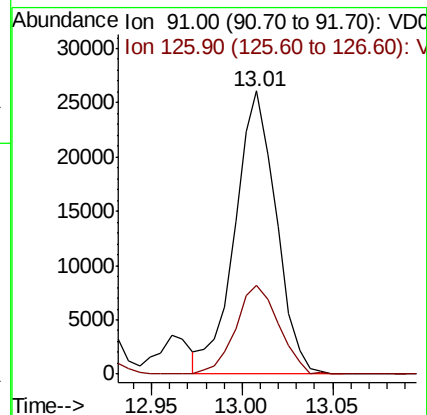
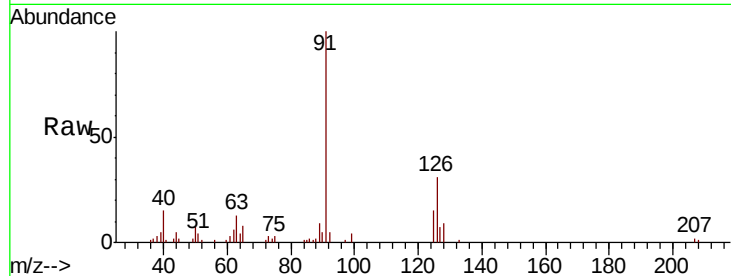
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 91 Resp: 41135

Ion Ratio Lower Upper

91 100

126 32.9 17.3 51.7



#83

tert-Butylbenzene

Concen: 2.838 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

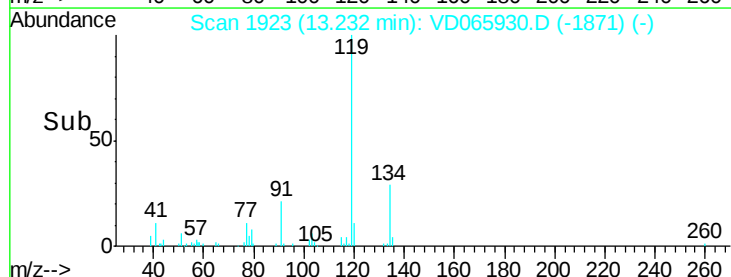
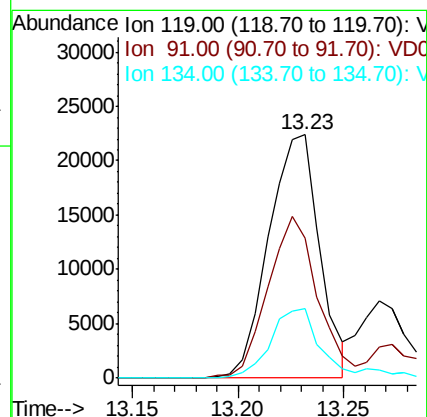
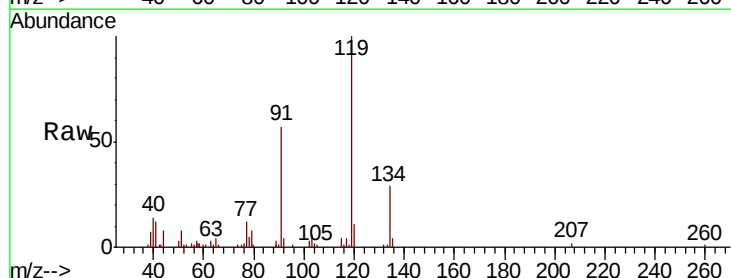
Tgt Ion: 119 Resp: 37509

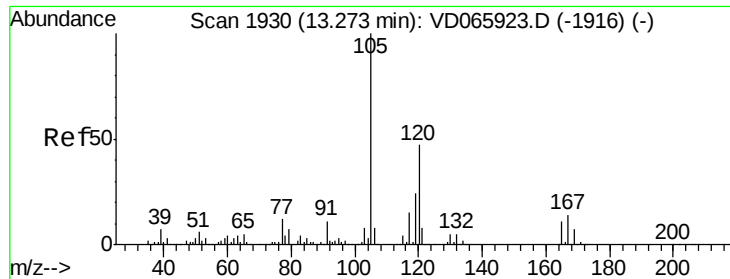
Ion Ratio Lower Upper

119 100

91 65.1 32.4 97.2

134 27.3 14.1 42.4

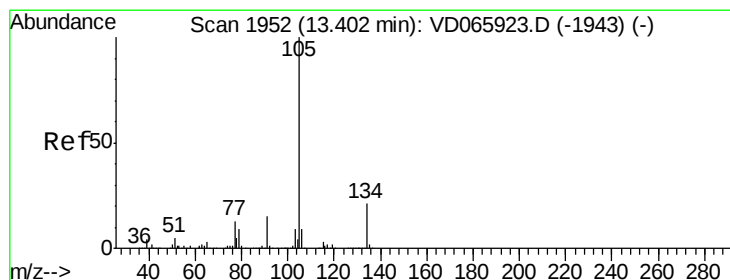
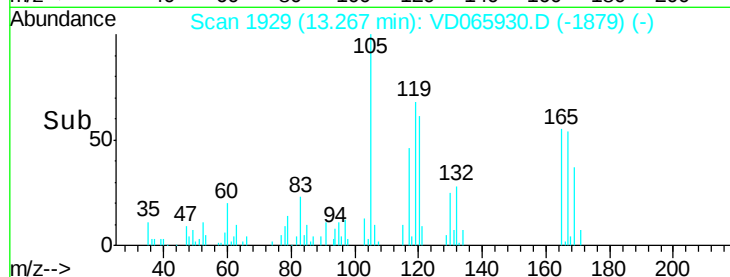
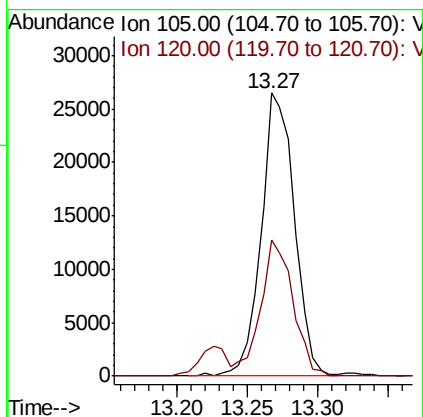
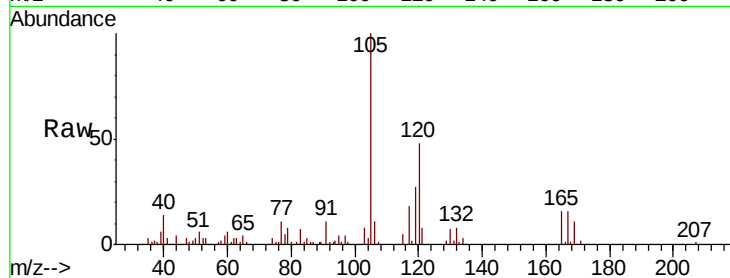




#84
 1,2,4-Trimethylbenzene
 Concen: 2.840 ug/l
 RT: 13.27 min Scan# 1929
 Delta R.T. -0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

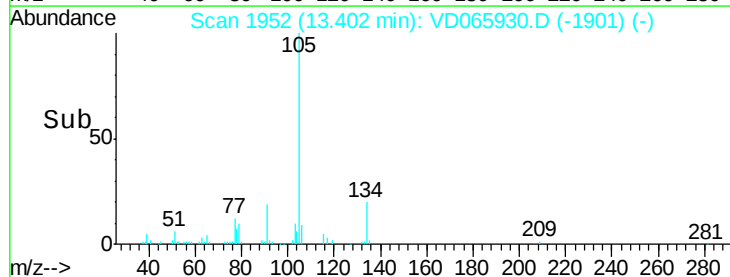
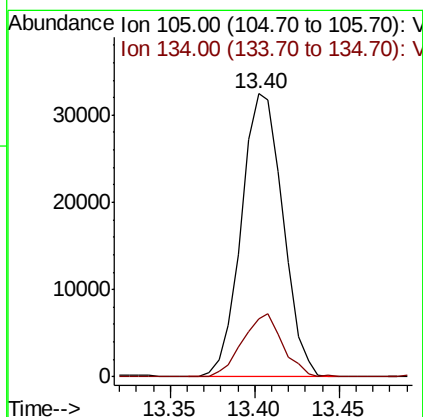
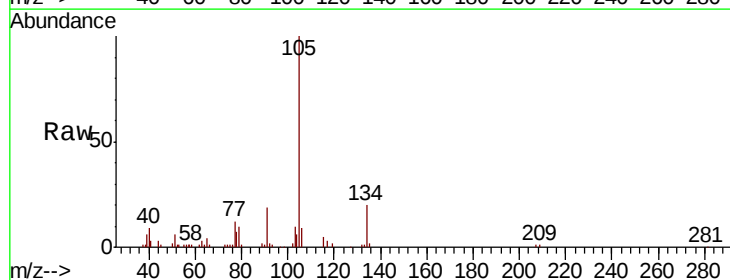
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

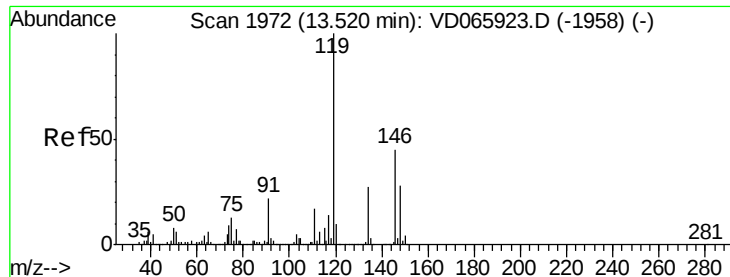
Tot Ion:105 Resp: 43860
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.2 69.5



#85
 sec-Butylbenzene
 Concen: 2.957 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion:105 Resp: 55401
 Ion Ratio Lower Upper
 105 100
 134 21.5 10.4 31.1

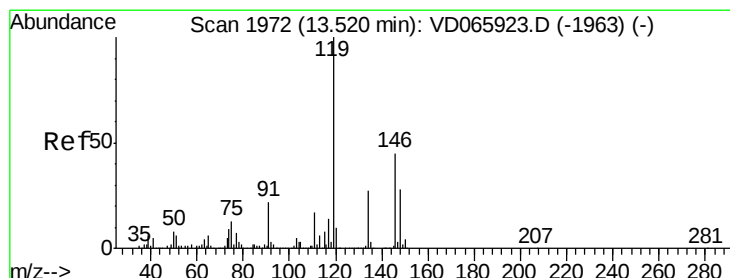
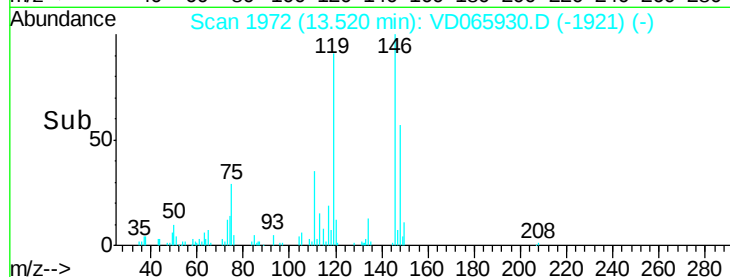
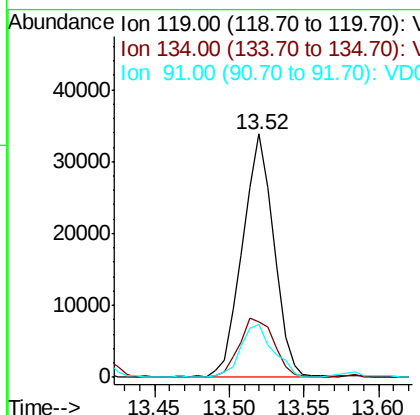
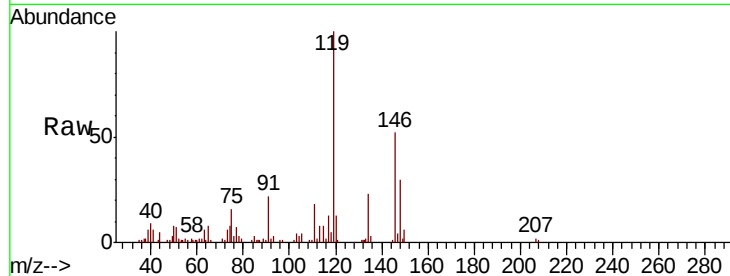




#86
 p-Isopropyltoluene
 Concen: 2.890 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

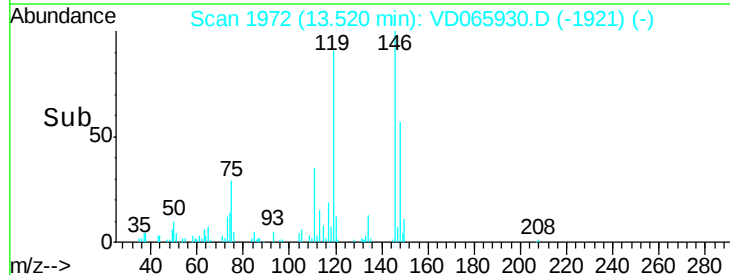
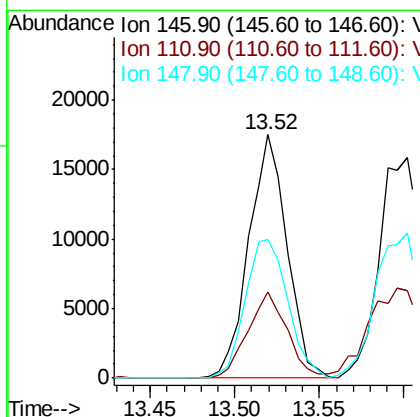
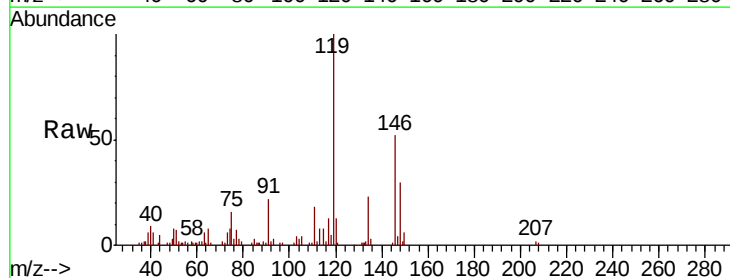
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

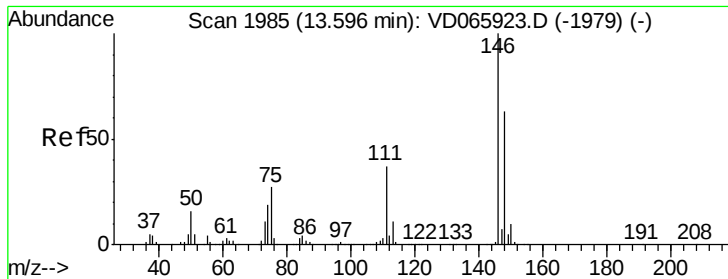
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.4	40.1
91	22.6	11.3	33.8



#87
 1,3-Dichlorobenzene
 Concen: 3.197 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	19.3	57.8
148	63.5	32.0	96.0





#88

1,4-Dichlorobenzene

Concen: 3.257 ug/l

RT: 13.60 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

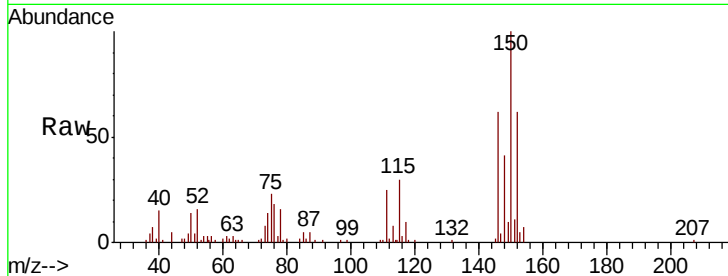
Instrument :

MSVOA_D

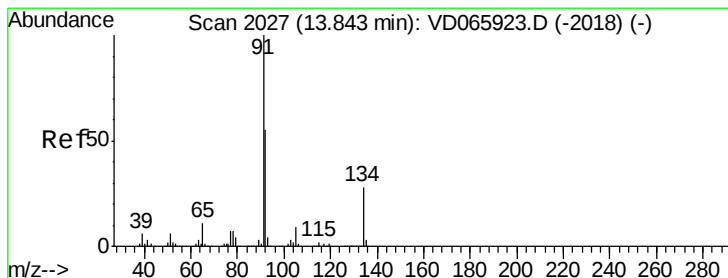
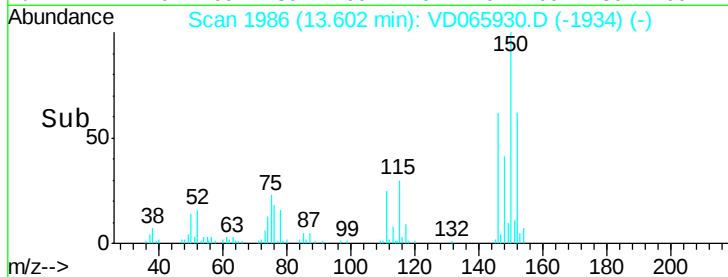
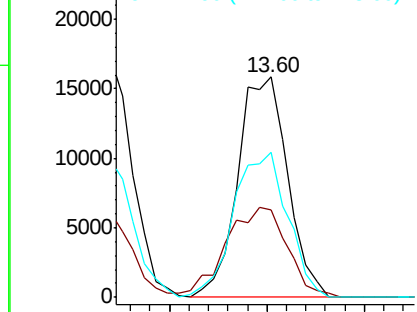
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	146	Resp:	27973
Ion	Ratio	Lower	Upper
146	100		
111	50.7	18.9	56.7
148	71.4	32.1	96.3



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: 2.919 ug/l

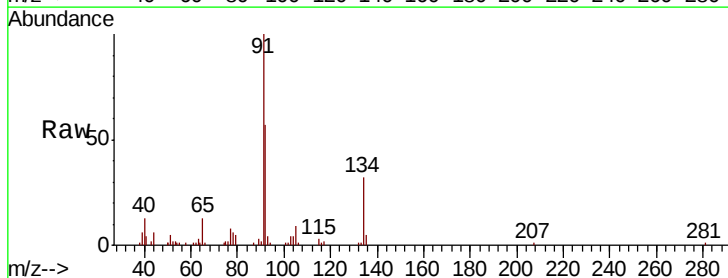
RT: 13.84 min Scan# 2027

Delta R.T. -0.00 min

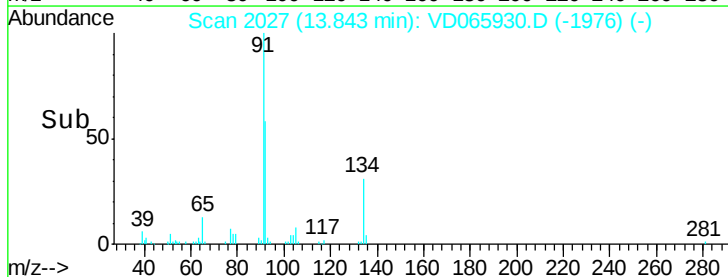
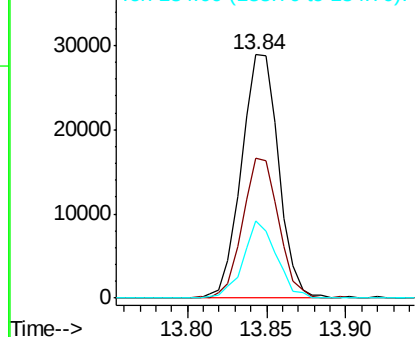
Lab File: VD065930.D

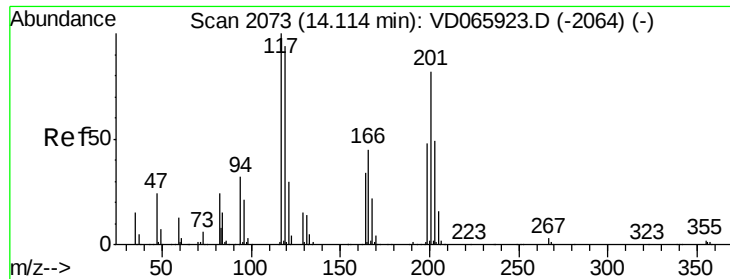
Acq: 07 Jul 2020 19:32

Tgt Ion:	91	Resp:	46966
Ion	Ratio	Lower	Upper
91	100		
92	55.7	27.2	81.6
134	28.1	13.8	41.3



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.00 (133.70 to 134.70): V

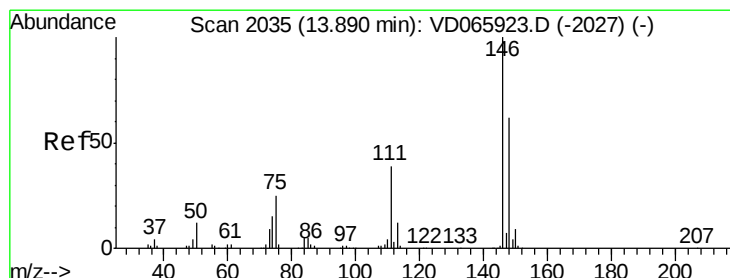
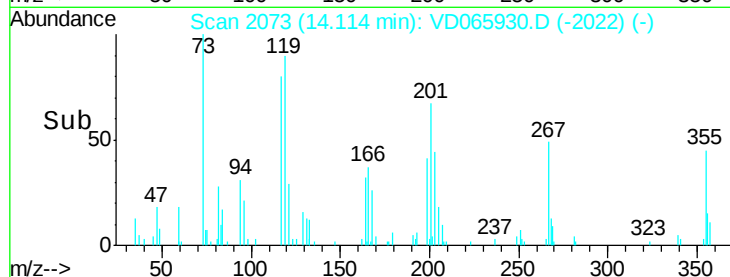
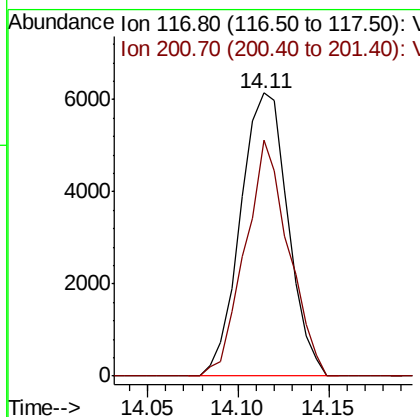
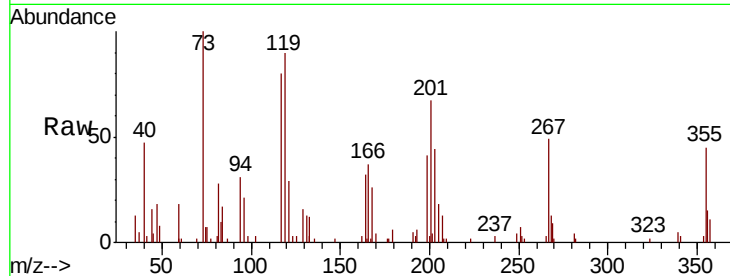




#90
Hexachloroethane
Concen: 3.236 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

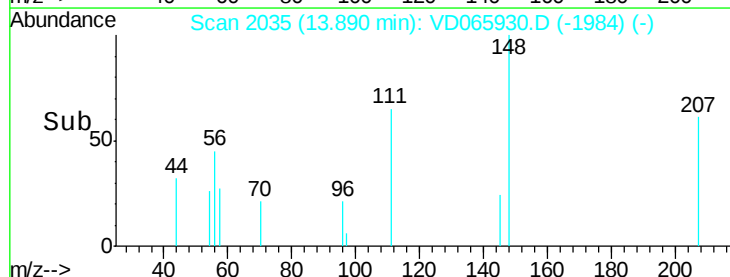
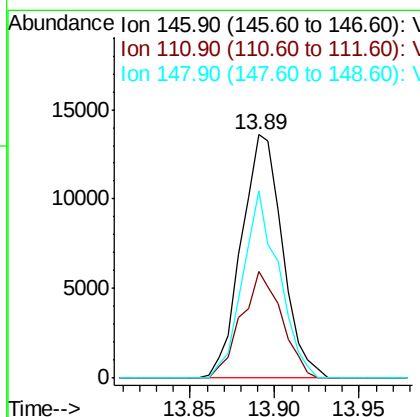
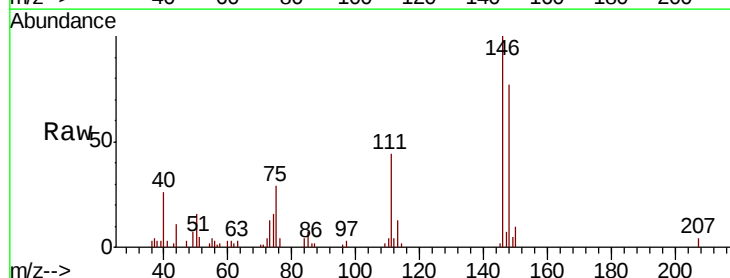
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

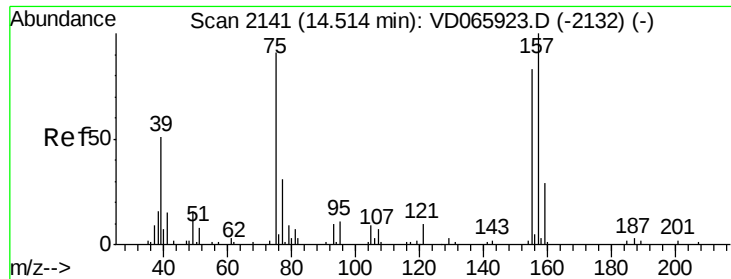
Tot Ion:117 Resp: 11182
Ion Ratio Lower Upper
117 100
201 76.8 40.0 120.0



#91
1,2-Dichlorobenzene
Concen: 3.064 ug/l
RT: 13.89 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VD065930.D
Acq: 07 Jul 2020 19:32

Tgt Ion:146 Resp: 23054
Ion Ratio Lower Upper
146 100
111 42.8 19.7 59.0
148 67.4 32.5 97.5

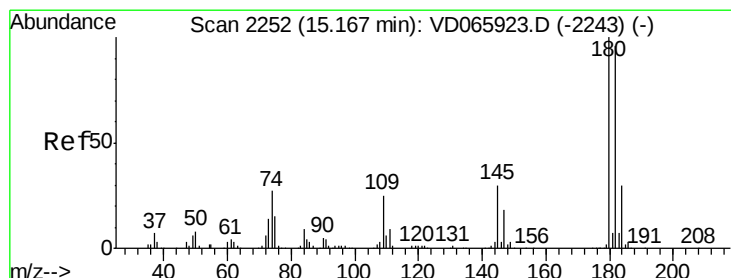
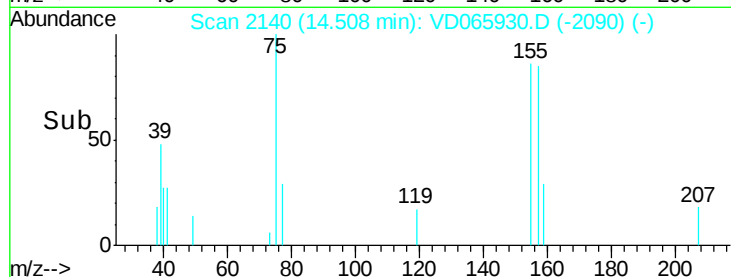
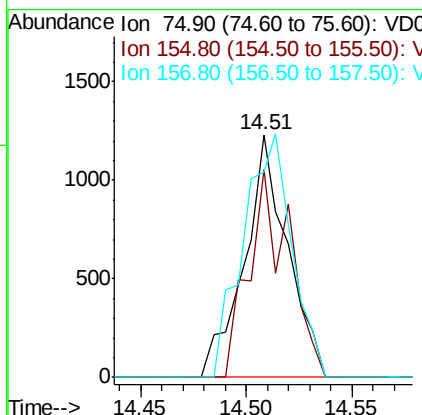
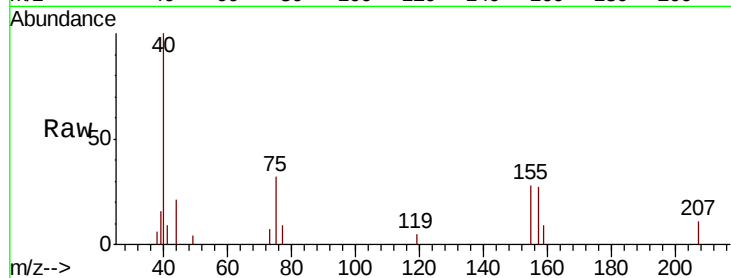




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.319 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. -0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

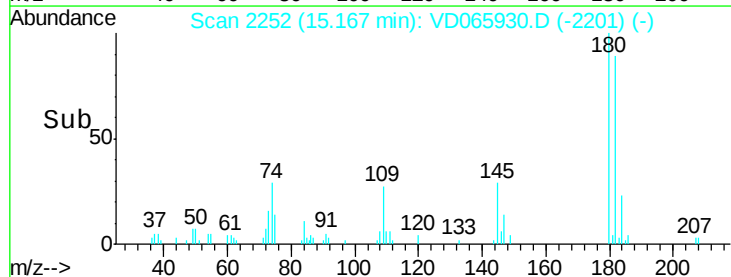
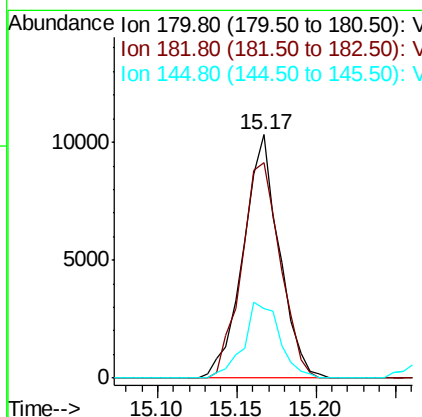
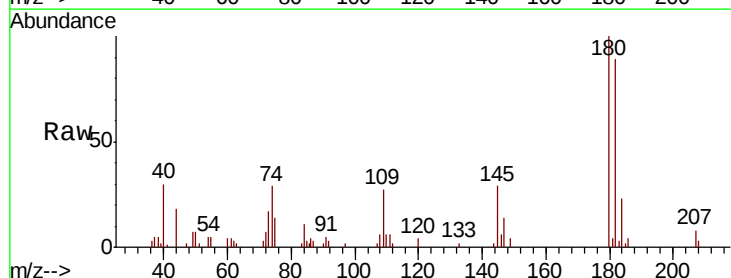
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

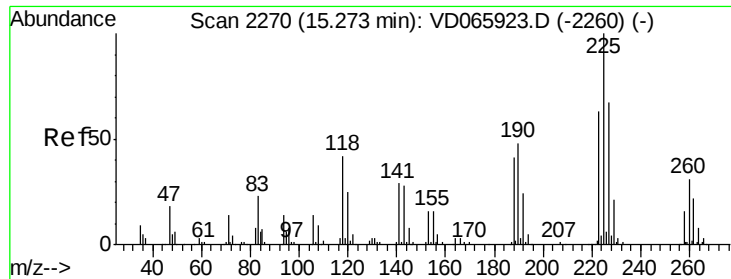
Tot Ion: 75 Resp: 1748
 Ion Ratio Lower Upper
 75 100
 155 80.3 45.3 135.8
 157 112.8 56.9 170.6



#93
 1,2,4-Trichlorobenzene
 Concen: 3.034 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Tgt Ion: 180 Resp: 16269
 Ion Ratio Lower Upper
 180 100
 182 95.2 48.5 145.6
 145 31.1 15.0 45.1





#94

Hexachlorobutadiene

Concen: 3.140 ug/l

RT: 15.27 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

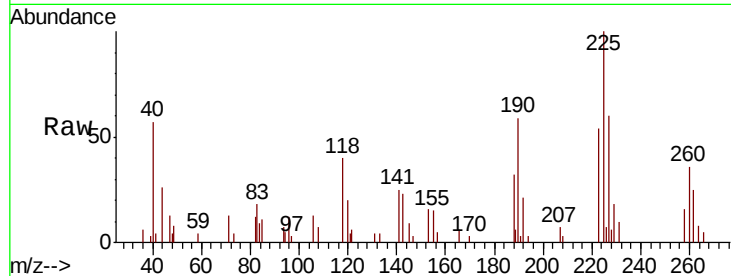
Tot Ion:225 Resp: 10186

Ion Ratio Lower Upper

225 100

223 64.0 31.1 93.2

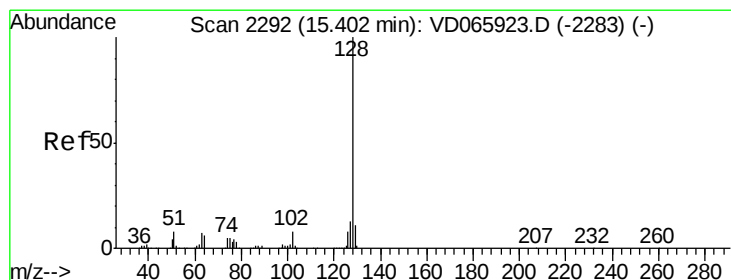
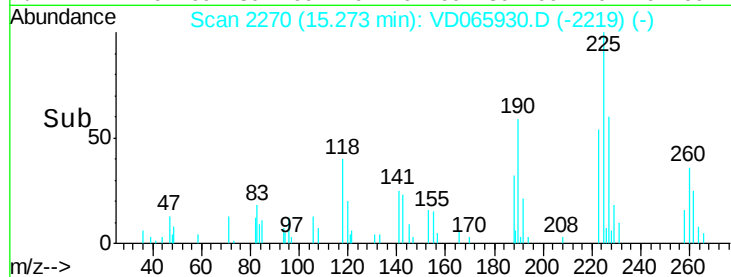
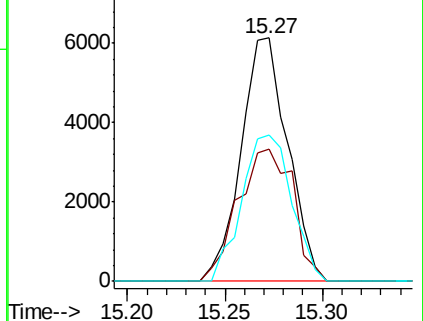
227 64.0 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.031 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VD065930.D

Acq: 07 Jul 2020 19:32

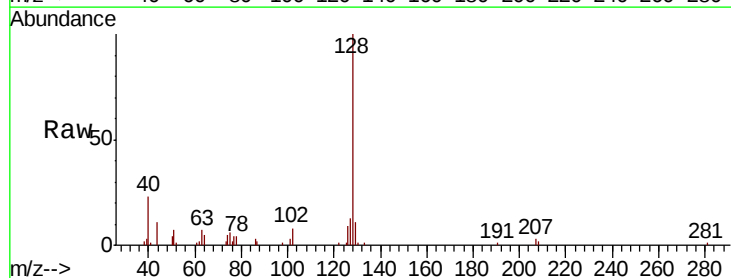
Tgt Ion:128 Resp: 27264

Ion Ratio Lower Upper

128 100

127 14.6 10.8 16.2

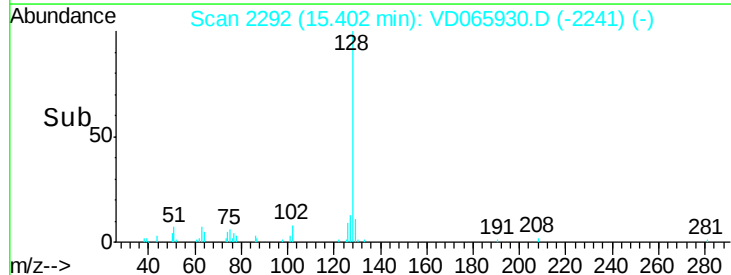
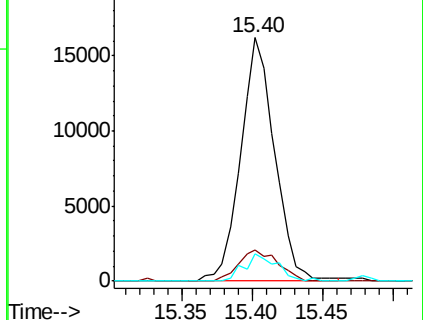
129 11.0 8.9 13.3

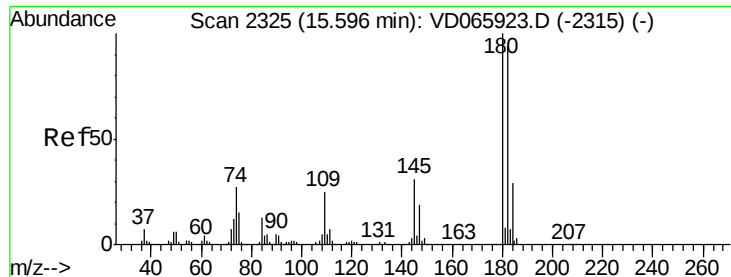


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

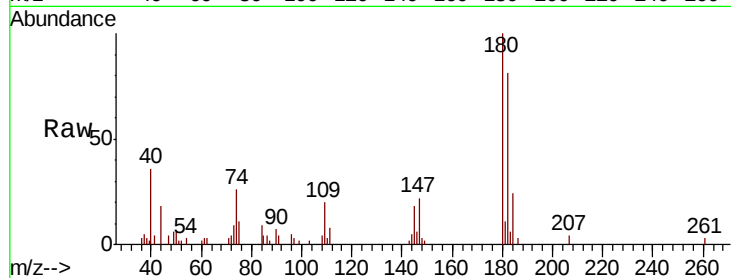




#96
 1,2,3-Trichlorobenzene
 Concen: 3.458 ug/l
 RT: 15.60 min Scan# 2326
 Delta R.T. 0.01 min
 Lab File: VD065930.D
 Acq: 07 Jul 2020 19:32

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.6	142.8
145	29.1	16.1	48.2



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

