

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
 Data File : VD059519.D
 Acq On : 2 Jul 2018 23:46
 Operator : VA/AP
 Sample : J3762-02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Quant Time: Jul 03 09:08:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 03 09:04:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	657979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.66	114	849576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.67	117	715414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	370956	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.99	65	437348	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
35) Dibromofluoromethane	5.52	113	411364	57.57	ug/l	0.01
Spiked Amount	50.000		Recovery	=	115.14%	
50) Toluene-d8	8.68	98	962049	58.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.02%	
62) 4-Bromofluorobenzene	11.92	95	404199	57.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.38%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.32	85	74175	8.85	ug/l	99
3) Chloromethane	1.47	50	39247	9.88	ug/l	96
4) Vinyl Chloride	1.54	62	36600	9.24	ug/l	95
5) Bromomethane	1.77	94	17847	11.90	ug/l	95
6) Chloroethane	1.86	64	18915	10.61	ug/l	96
7) Trichlorofluoromethane	2.06	101	63158	9.64	ug/l	89
8) Diethyl Ether	2.31	74	11435	9.11	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.53	101	35761	8.97	ug/l #	87
10) Methyl Iodide	2.67	142	32955	8.29	ug/l	96
11) Tert butyl alcohol	3.24	59	13066	45.92	ug/l #	94
12) 1,1-Dichloroethene	2.52	96	29070	9.54	ug/l	95
13) Acrolein	2.44	56	9334	57.58	ug/l	83
14) Allyl chloride	2.89	41	56317	8.38	ug/l	94
15) Acrylonitrile	3.33	53	36387	46.27	ug/l	95
16) Acetone	2.59	43	55397	47.98	ug/l #	89
17) Carbon Disulfide	2.73	76	76278	9.88	ug/l	98
18) Methyl Acetate	2.91	43	21620	7.00	ug/l #	83
19) Methyl tert-butyl Ether	3.37	73	72722	9.24	ug/l #	89
20) Methylene Chloride	3.03	84	48016	10.73	ug/l	91
21) trans-1,2-Dichloroethene	3.36	96	32080	9.54	ug/l	95
22) Diisopropyl ether	4.04	45	240702	9.82	ug/l	98
23) Vinyl Acetate	3.98	43	635621	46.98	ug/l	99
24) 1,1-Dichloroethane	3.94	63	133967	9.65	ug/l	97
25) 2-Butanone	4.80	43	111496	46.42	ug/l	99
26) 2,2-Dichloropropane	4.76	77	102289	9.01	ug/l	97
27) cis-1,2-Dichloroethene	4.76	96	73277	10.06	ug/l	97
28) Bromochloromethane	5.11	49	57475	10.79	ug/l	95
29) Tetrahydrofuran	5.16	42	58543	47.86	ug/l	93
30) Chloroform	5.30	83	138439	9.45	ug/l	100
31) Cyclohexane	5.56	56	105267	8.66	ug/l	98
32) 1,1,1-Trichloroethane	5.47	97	109777	9.46	ug/l	98
36) 1,1-Dichloropropene	5.71	75	98590	10.81	ug/l	98
37) Ethyl Acetate	4.90	43	57815	11.39	ug/l	96
38) Carbon Tetrachloride	5.70	117	94734	10.56	ug/l	92

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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)
39) Methylcyclohexane	7.26	83	89437	10.76	ug/l	96
40) Benzene	5.99	78	213773	10.18	ug/l	98
41) Methacrylonitrile	5.09	41	29314	11.39	ug/l	98
42) 1,2-Dichloroethane	6.10	62	94410	10.05	ug/l	97
43) Isopropyl Acetate	7.60	43	68631	10.22	ug/l #	97
44) Trichloroethene	6.95	130	68581	10.76	ug/l	81
45) 1,2-Dichloropropane	7.32	63	58413	9.95	ug/l #	88
46) Dibromomethane	7.44	93	40242	10.13	ug/l	93
47) Bromodichloromethane	7.72	83	95677	10.35	ug/l	94
48) Methyl methacrylate	7.48	41	43365	10.35	ug/l	97
49) 1,4-Dioxane	7.46	88	7137	182.90	ug/l	92
51) 4-Methyl-2-Pentanone	8.57	43	229191	52.27	ug/l	93
52) Toluene	8.78	92	124484	10.74	ug/l	94
53) t-1,3-Dichloropropene	9.17	75	80431	9.99	ug/l	98
54) cis-1,3-Dichloropropene	8.34	75	95769	10.26	ug/l	95
55) 1,1,2-Trichloroethane	9.43	97	43177	10.16	ug/l	93
56) Ethyl methacrylate	9.29	69	56032	10.52	ug/l #	92
57) 1,3-Dichloropropane	9.65	76	76160	9.95	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.16	63	139570	54.19	ug/l	98
59) 2-Hexanone	9.77	43	172047	53.34	ug/l	96
60) Dibromochloromethane	9.93	129	62147	10.48	ug/l	95
61) 1,2-Dibromoethane	10.07	107	46836	9.95	ug/l	99
64) Tetrachloroethene	9.49	164	64783	10.53	ug/l	91
65) Chlorobenzene	10.70	112	140387	10.19	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.83	131	58809	10.48	ug/l	98
67) Ethyl Benzene	10.84	91	275345	11.27	ug/l	99
68) m/p-Xylenes	11.00	106	175419	21.76	ug/l	100
69) o-Xylene	11.39	106	83656	10.77	ug/l	95
70) Styrene	11.42	104	139470	10.71	ug/l #	89
71) Bromoform	11.59	173	35564	8.40	ug/l	93
73) Isopropylbenzene	11.76	105	236934	10.69	ug/l	97
74) N-amyl acetate	11.64	43	92232	9.86	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.06	83	58808	10.24	ug/l	95
76) 1,2,3-Trichloropropane	12.10	75	58364	9.75	ug/l	99
77) Bromobenzene	12.03	156	71094	10.22	ug/l	89
78) n-propylbenzene	12.14	91	311461	10.49	ug/l	99
79) 2-Chlorotoluene	12.21	91	178883	10.24	ug/l	95
80) 1,3,5-Trimethylbenzene	12.31	105	198824	11.03	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.83	75	11830	9.15	ug/l	96
82) 4-Chlorotoluene	12.32	91	218254	11.03	ug/l	88
83) tert-Butylbenzene	12.56	119	219829	10.72	ug/l	91
84) 1,2,4-Trimethylbenzene	12.61	105	195845	10.12	ug/l	99
85) sec-Butylbenzene	12.75	105	257513	10.95	ug/l	98
86) p-Isopropyltoluene	12.88	119	208071	10.54	ug/l	97
87) 1,3-Dichlorobenzene	12.83	146	116394	9.77	ug/l	98
88) 1,4-Dichlorobenzene	12.92	146	123220	10.54	ug/l	97
89) n-Butylbenzene	13.18	91	237897	11.82	ug/l	98
90) Hexachloroethane	13.39	117	47478	9.29	ug/l	91
91) 1,2-Dichlorobenzene	13.18	146	113609	11.34	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.76	75	9648	9.74	ug/l	90

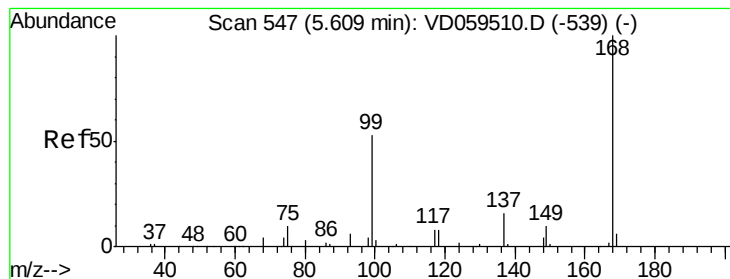
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	96408	10.85	ug/l	97
94) Hexachlorobutadiene	14.42	225	71850	10.58	ug/l	95
95) Naphthalene	14.50	128	134193	10.16	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	78684	10.07	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

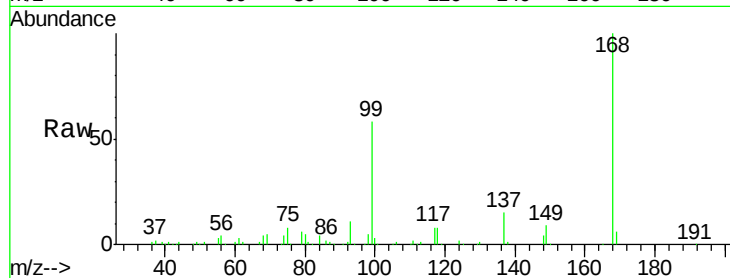
LOQ-SOIL-02-QT3-2018

Tot Ion:168 Resp: 657979

Ion Ratio Lower Upper

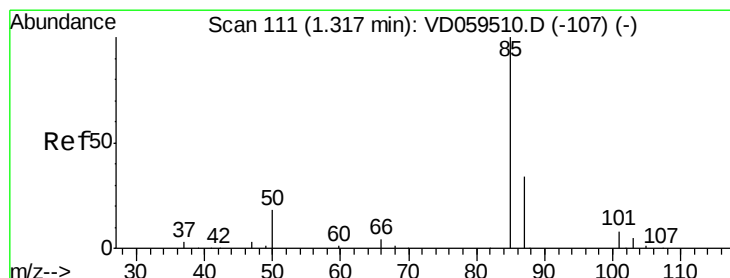
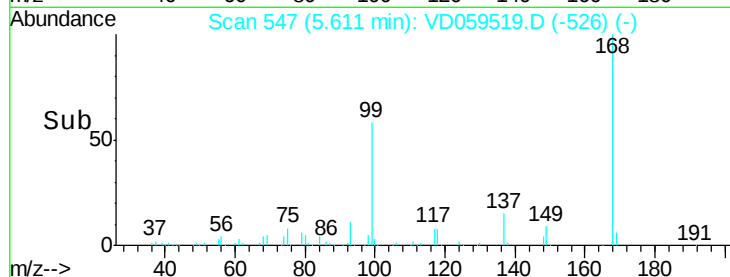
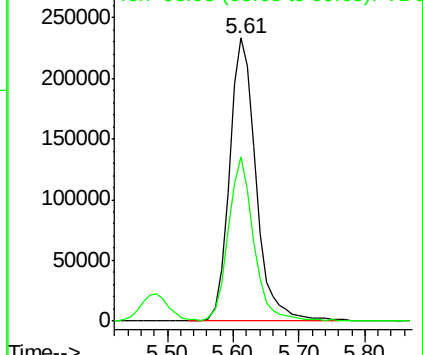
168 100

99 58.0 45.1 67.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 8.85 ug/l

RT: 1.32 min Scan# 111

Delta R.T. 0.00 min

Lab File: VD059519.D

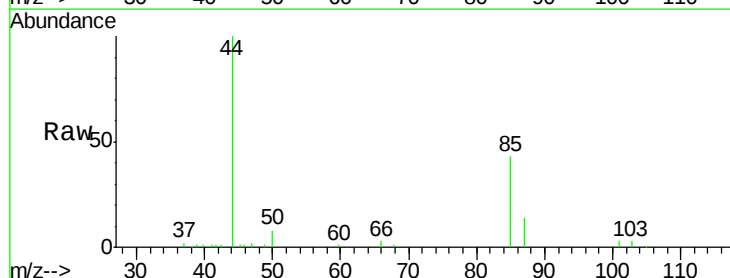
Acq: 2 Jul 2018 23:46

Tgt Ion: 85 Resp: 74175

Ion Ratio Lower Upper

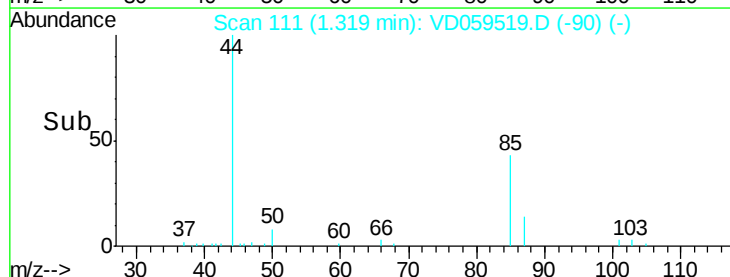
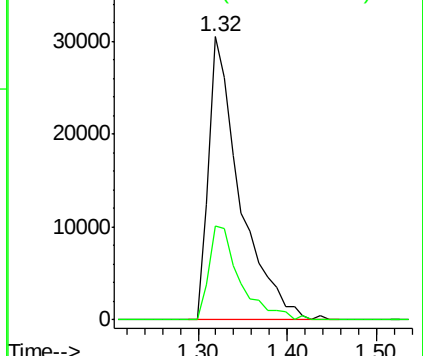
85 100

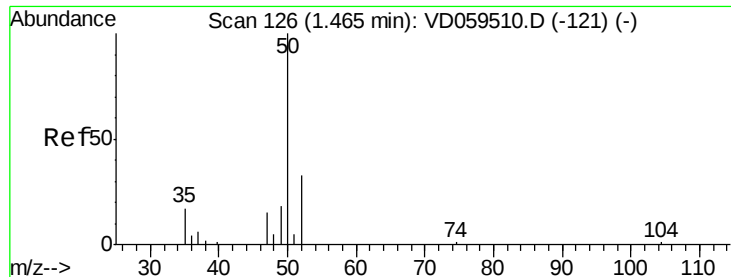
87 33.2 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 9.88 ug/l

RT: 1.47 min Scan# 126

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

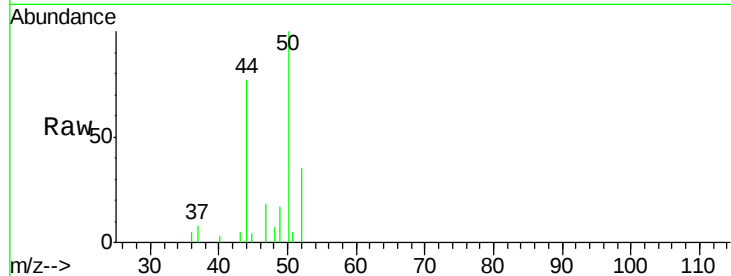
LOQ-SOIL-02-QT3-2018

Tot Ion: 50 Resp: 39247

Ion Ratio Lower Upper

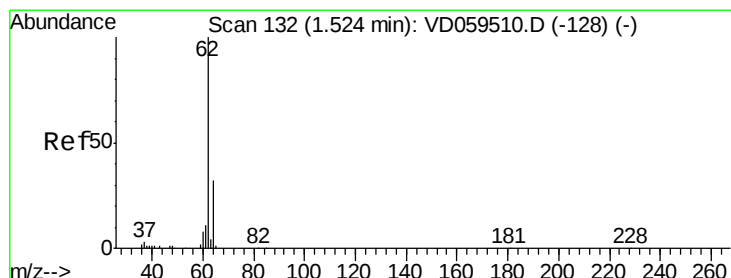
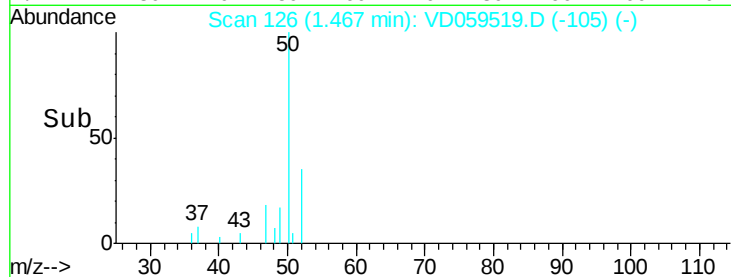
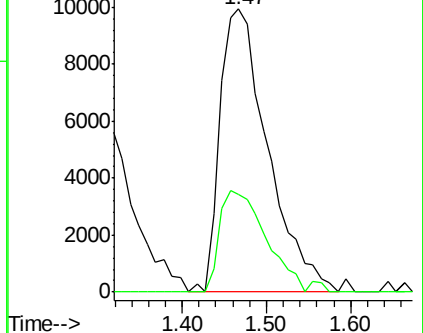
50 100

52 34.7 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 9.24 ug/l

RT: 1.54 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059519.D

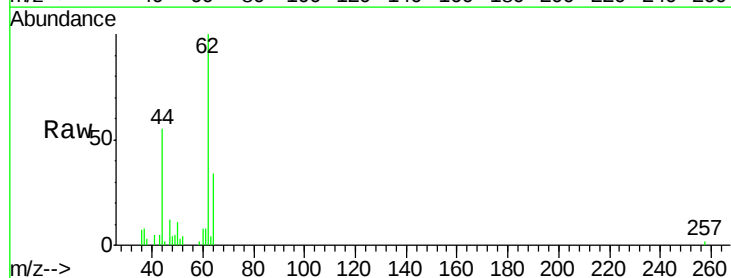
Acq: 2 Jul 2018 23:46

Tgt Ion: 62 Resp: 36600

Ion Ratio Lower Upper

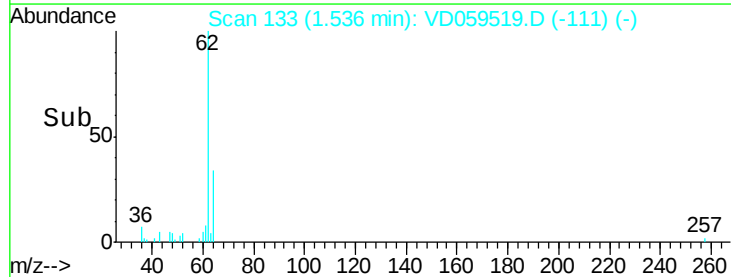
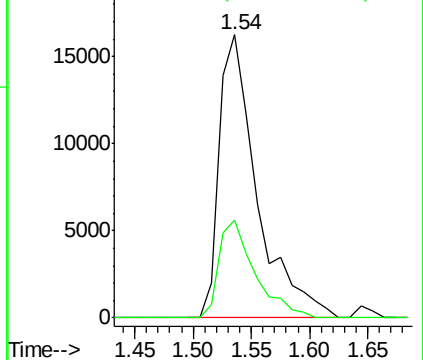
62 100

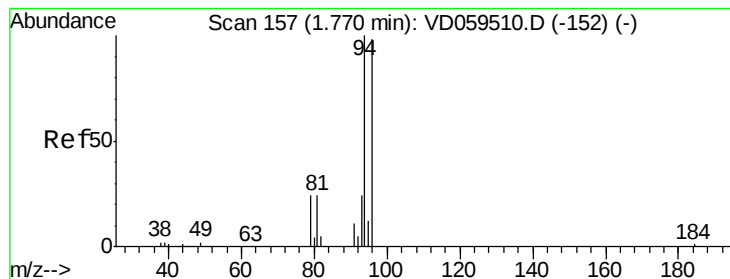
64 34.5 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 11.90 ug/l

RT: 1.77 min Scan# 157

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

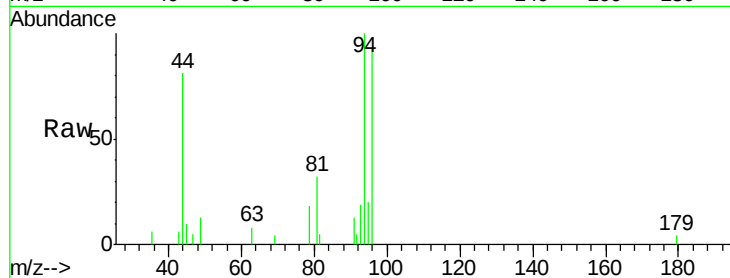
LOQ-SOIL-02-QT3-2018

Tot Ion: 94 Resp: 17847

Ion Ratio Lower Upper

94 100

96 93.3 78.2 117.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.77

8000

6000

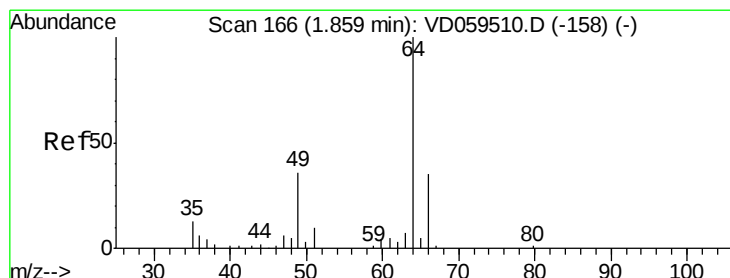
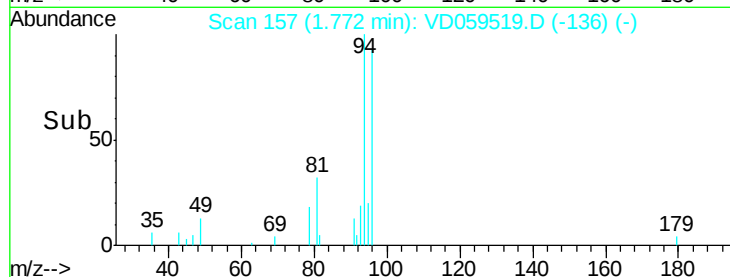
4000

2000

0

Time-->

1.70 1.80 1.90



#6

Chloroethane

Concen: 10.61 ug/l

RT: 1.86 min Scan# 166

Delta R.T. 0.00 min

Lab File: VD059519.D

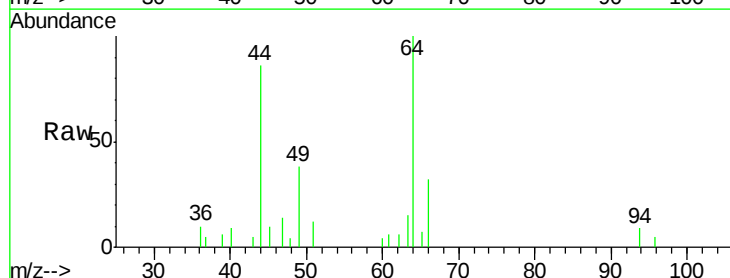
Acq: 2 Jul 2018 23:46

Tgt Ion: 64 Resp: 18915

Ion Ratio Lower Upper

64 100

66 32.0 27.6 41.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.86

8000

6000

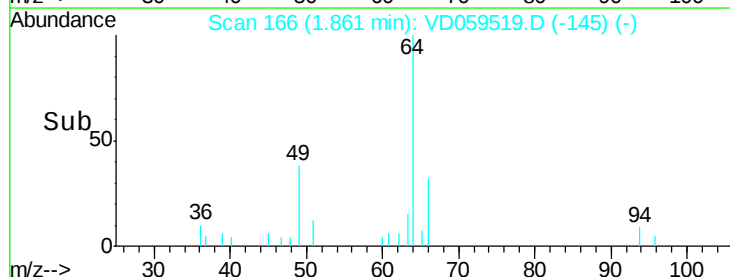
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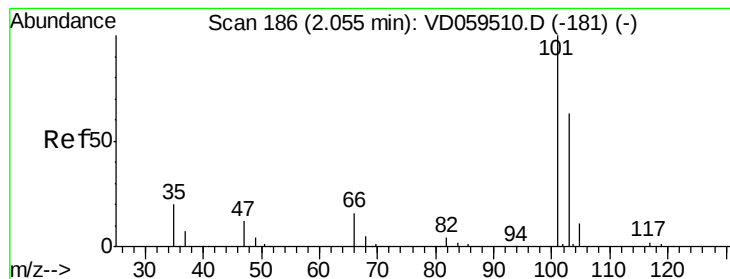
2000

0

Time-->

1.80 1.90 2.00



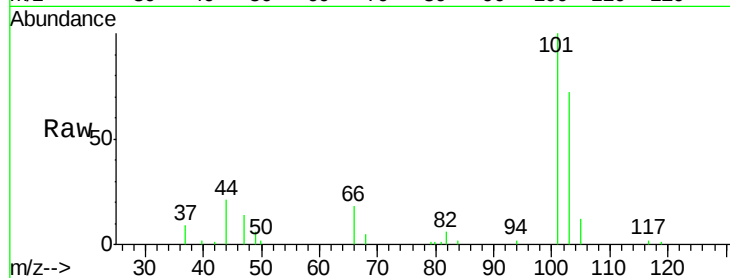


#7

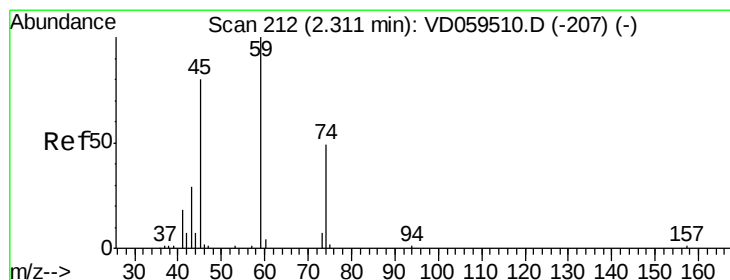
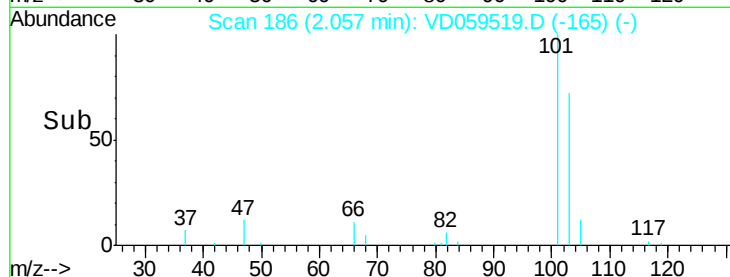
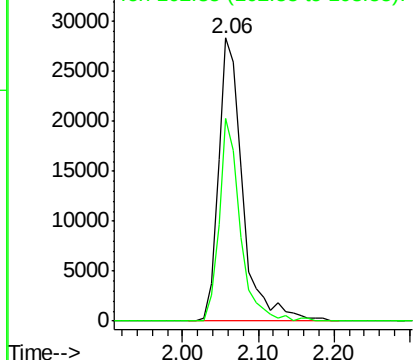
Trichlorofluoromethane
 Concen: 9.64 ug/l
 RT: 2.06 min Scan# 186
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion:101 Resp: 63158
 Ion Ratio Lower Upper
 101 100
 103 71.5 50.6 76.0



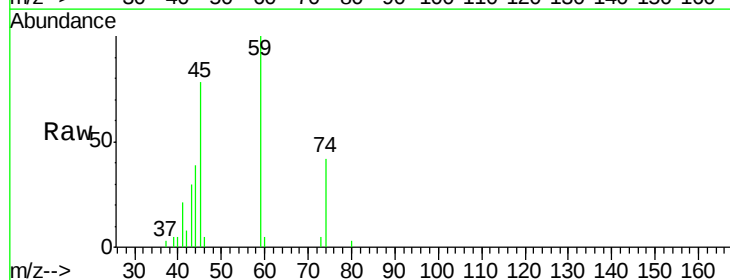
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



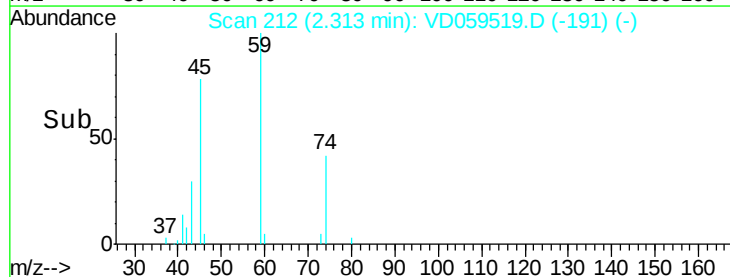
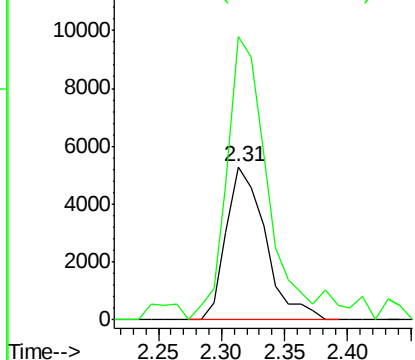
#8

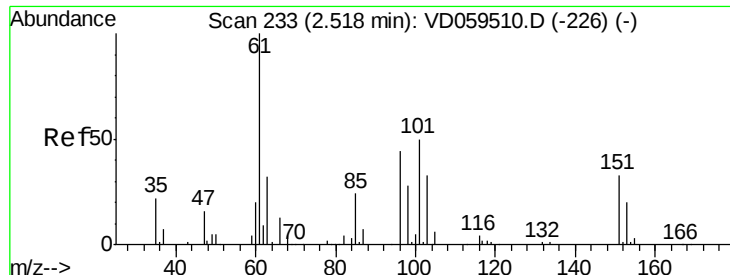
Diethyl Ether
 Concen: 9.11 ug/l
 RT: 2.31 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 74 Resp: 11435
 Ion Ratio Lower Upper
 74 100
 45 184.9 83.5 250.3



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.97 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

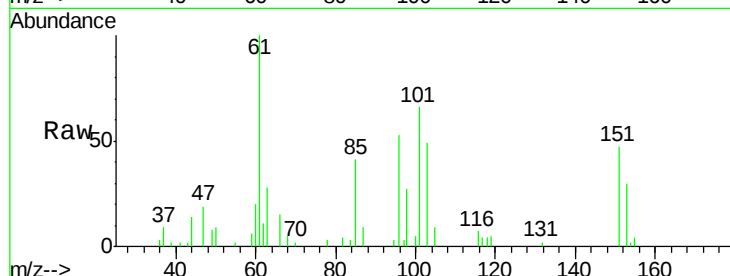
Tot Ion:101 Resp: 35761

Ion Ratio Lower Upper

101 100

85 62.3 38.8 58.2#

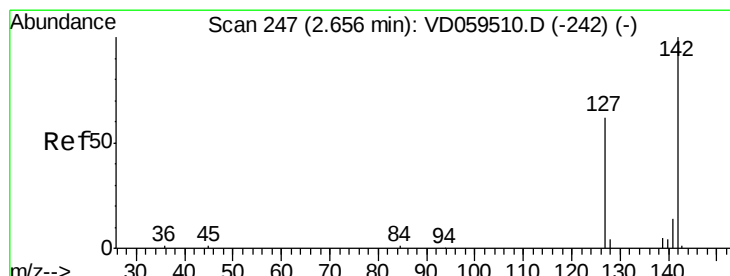
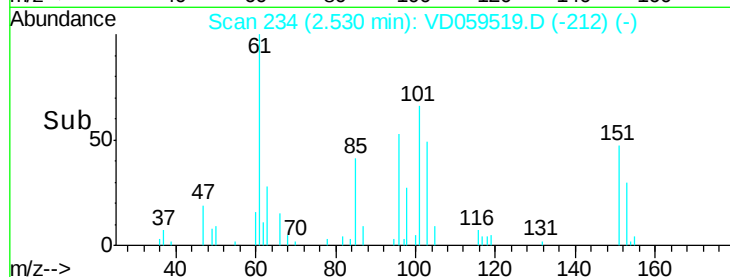
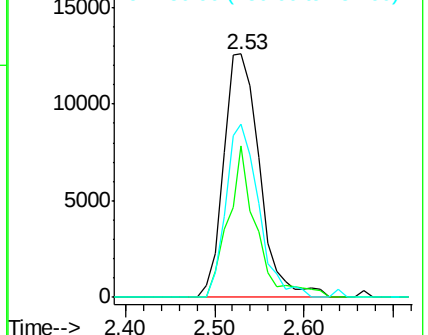
151 71.3 52.6 79.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 8.29 ug/l

RT: 2.67 min Scan# 248

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

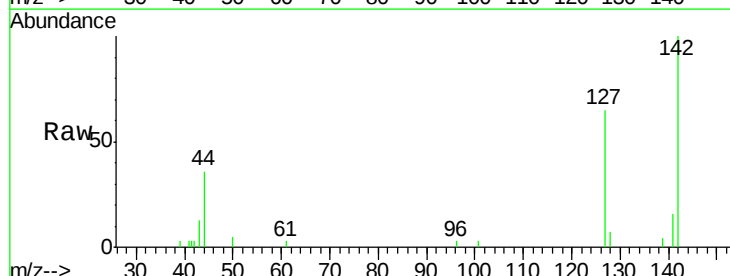
Tgt Ion:142 Resp: 32955

Ion Ratio Lower Upper

142 100

127 64.8 49.8 74.8

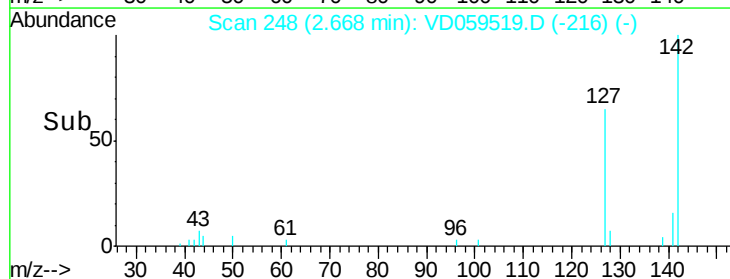
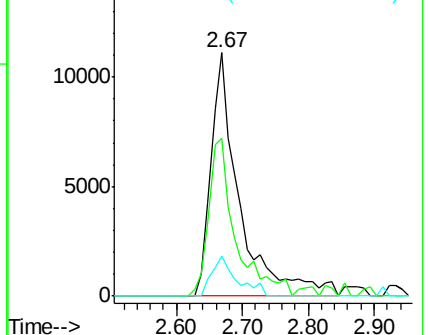
141 16.4 11.1 16.7

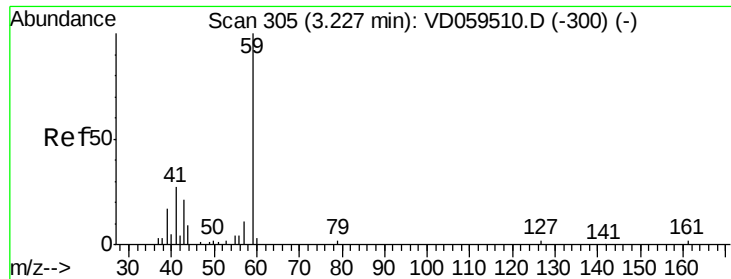


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

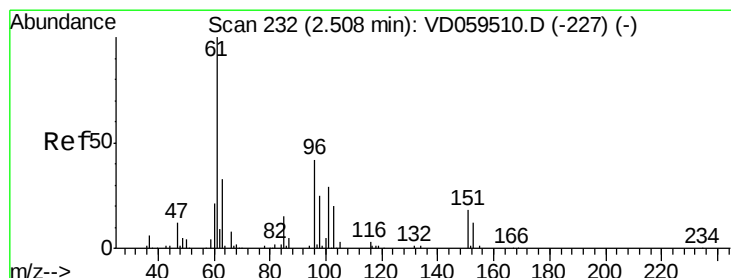
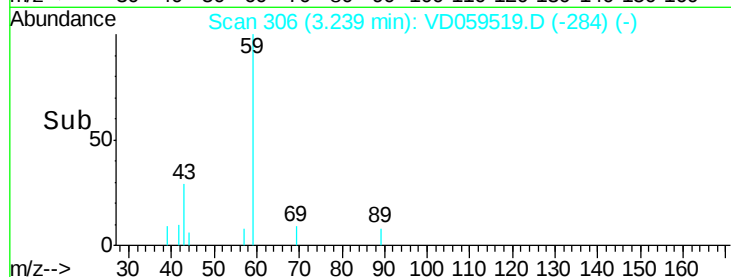
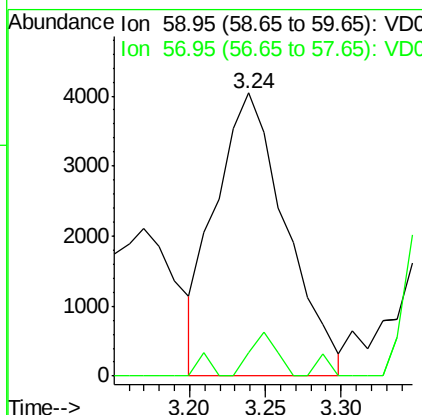
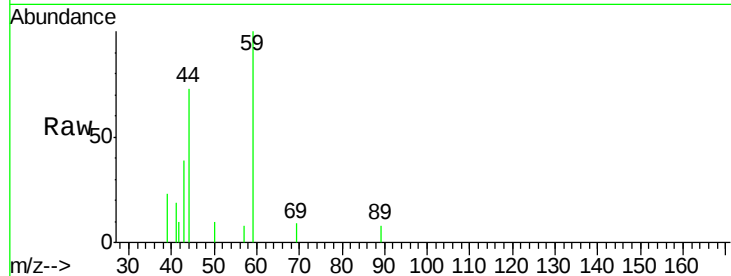




#11
Tert butyl alcohol
Concen: 45.92 ug/l
RT: 3.24 min Scan# 306
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

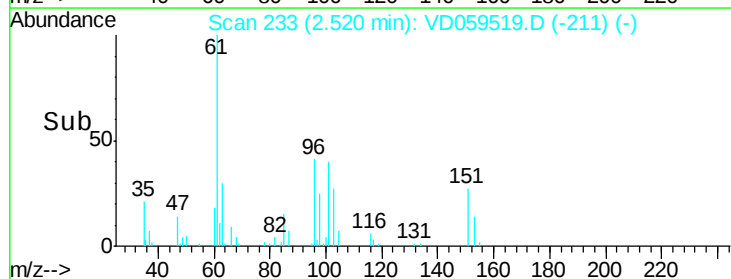
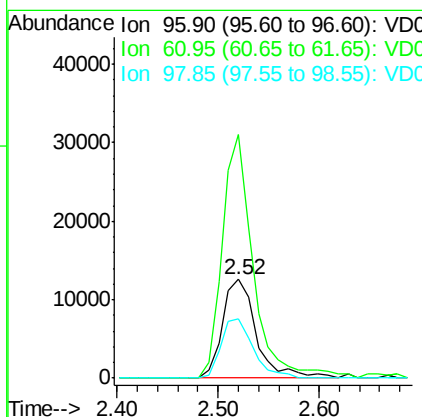
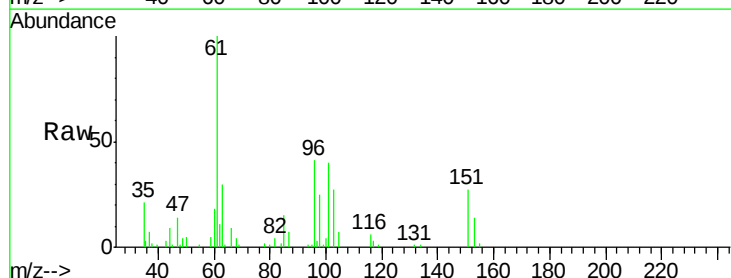
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

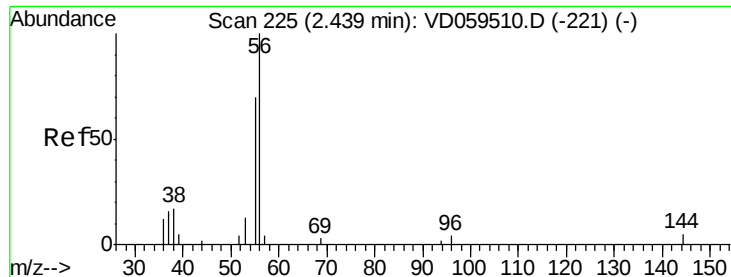
Tot Ion: 59 Resp: 13066
Ion Ratio Lower Upper
59 100
57 8.5 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 9.54 ug/l
RT: 2.52 min Scan# 233
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 96 Resp: 29070
Ion Ratio Lower Upper
96 100
61 246.6 189.4 284.0
98 60.5 47.9 71.9





#13

Acrolein

Concen: 57.58 ug/l

RT: 2.44 min Scan# 225

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

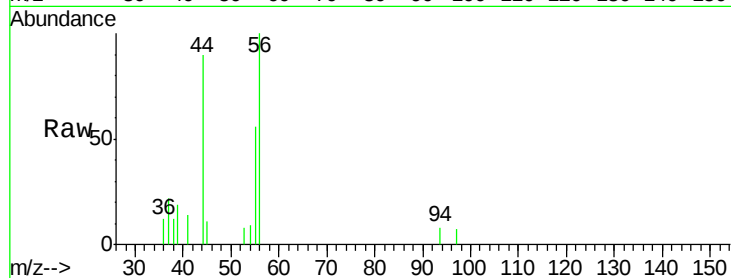
LOQ-SOIL-02-QT3-2018

Tot Ion: 56 Resp: 9334

Ion Ratio Lower Upper

56 100

55 56.4 56.0 84.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.44

4000

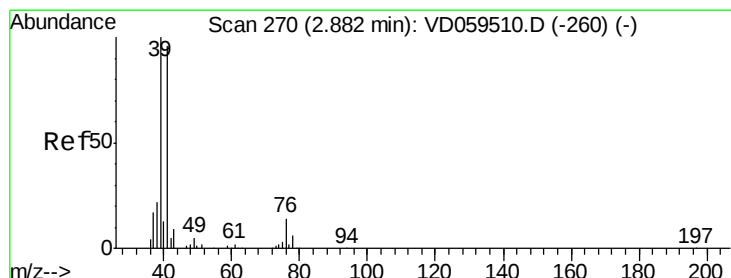
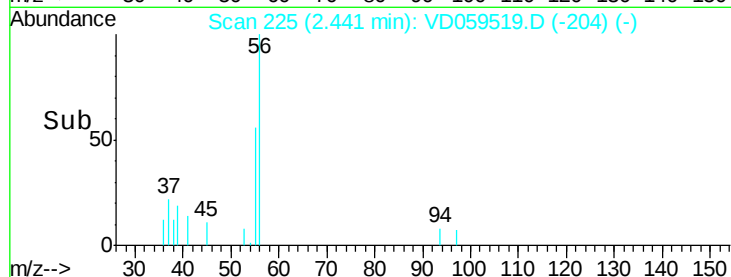
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#14

Allyl chloride

Concen: 8.38 ug/l

RT: 2.89 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

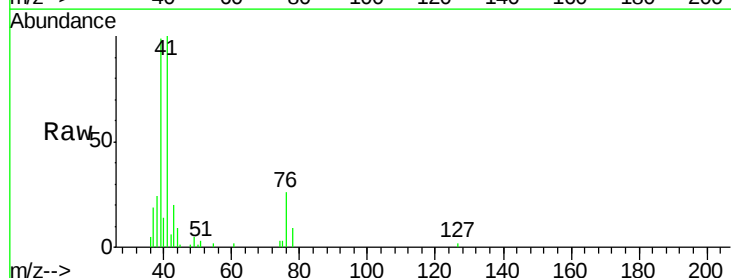
Tgt Ion: 41 Resp: 56317

Ion Ratio Lower Upper

41 100

39 98.8 83.8 125.8

76 26.2 18.4 27.6



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

2.89

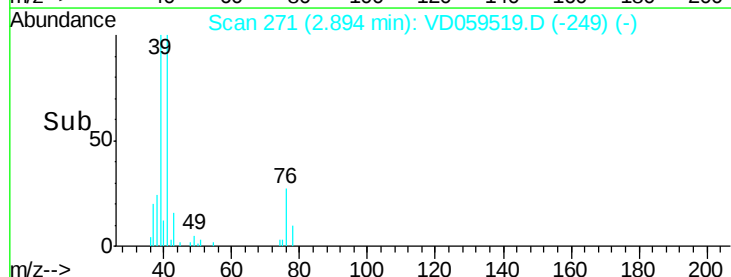
30000

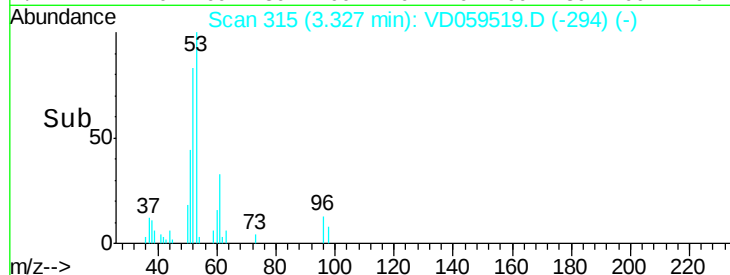
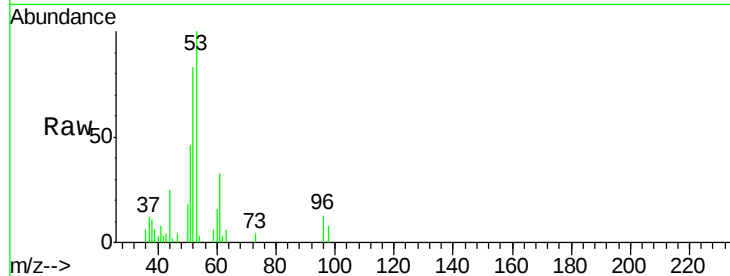
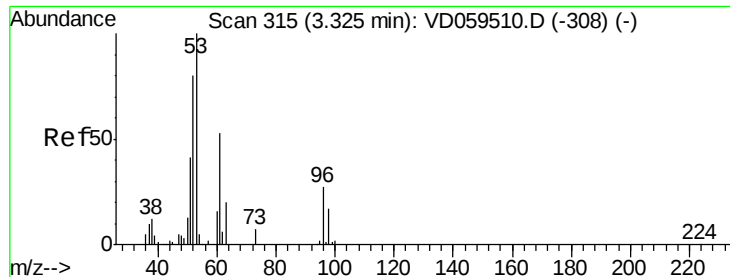
20000

10000

0

Time--> 2.80 2.90 3.00





#15

Acrylonitrile

Concen: 46.27 ug/l

RT: 3.33 min Scan# 315

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

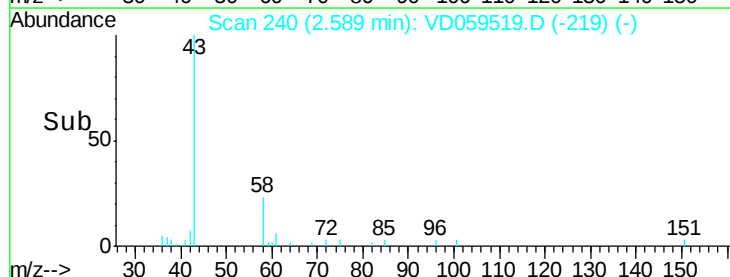
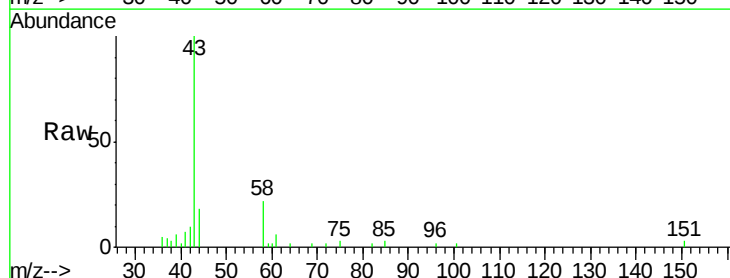
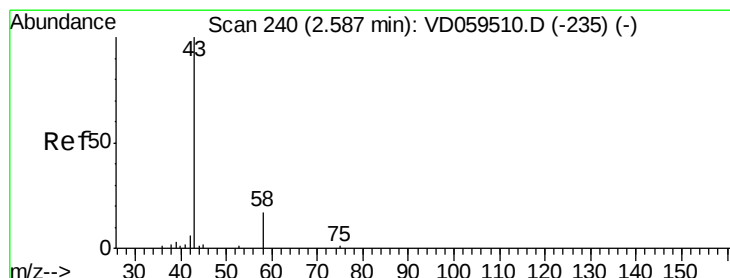
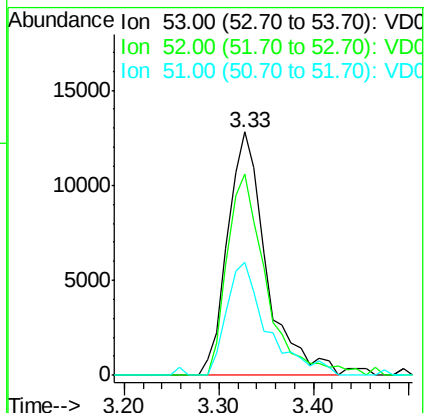
Tot Ion: 53 Resp: 36387

Ion Ratio Lower Upper

53 100

52 83.0 64.3 96.5

51 46.3 33.0 49.4



#16

Acetone

Concen: 47.98 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059519.D

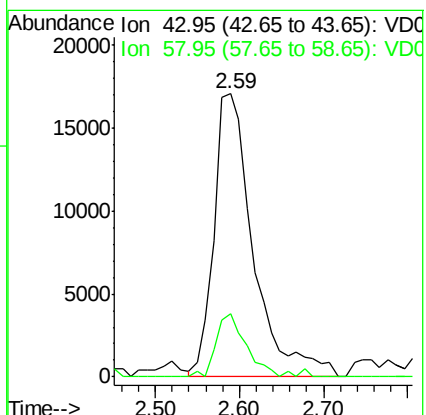
Acq: 2 Jul 2018 23:46

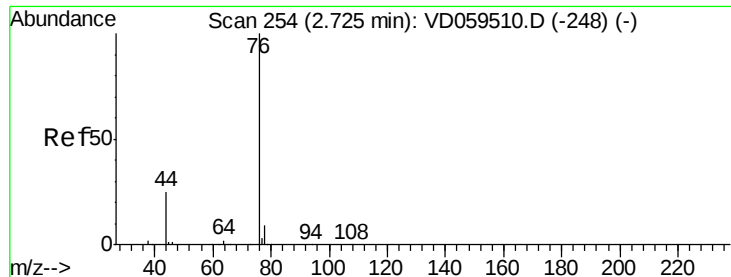
Tgt Ion: 43 Resp: 55397

Ion Ratio Lower Upper

43 100

58 22.2 13.8 20.8#

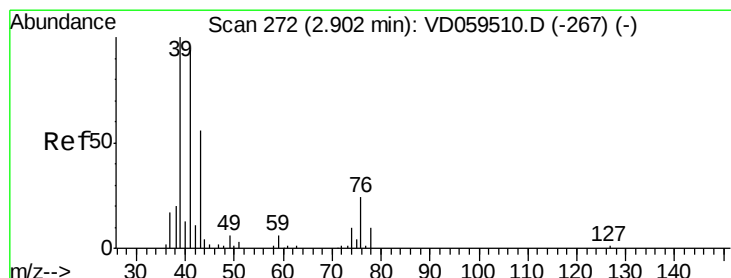
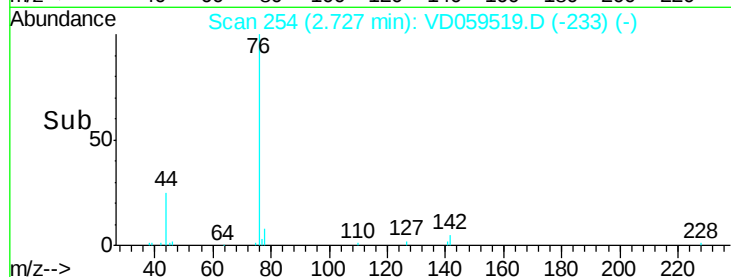
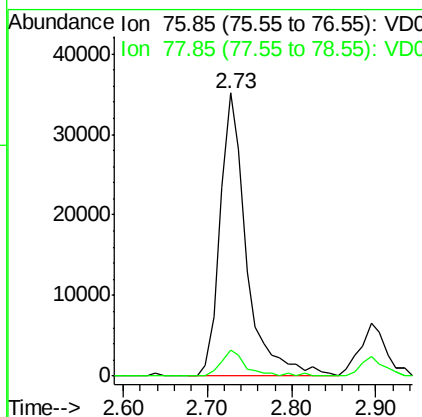
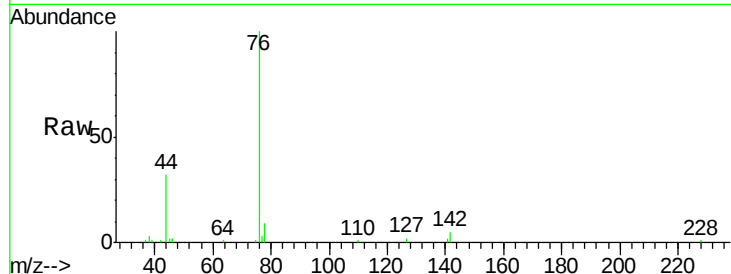




#17
Carbon Disulfide
Concen: 9.88 ug/l
RT: 2.73 min Scan# 254
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

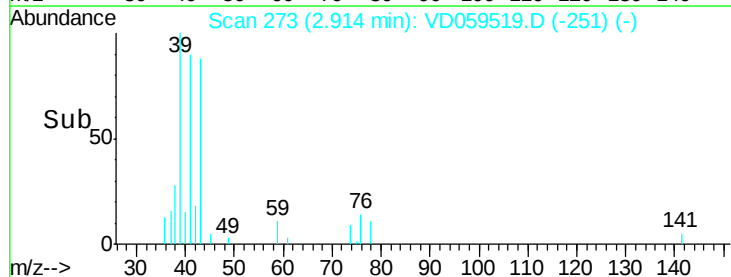
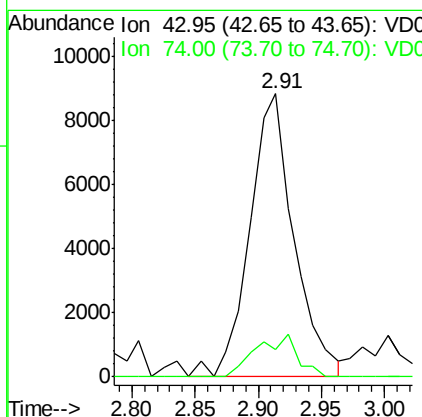
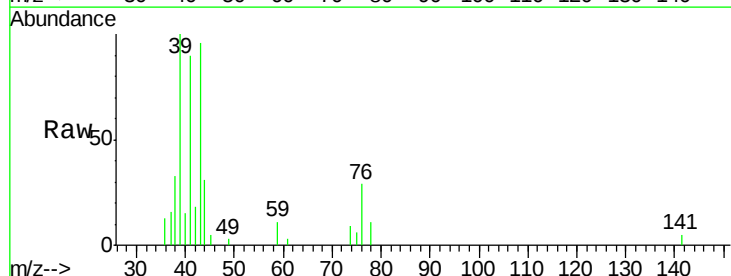
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

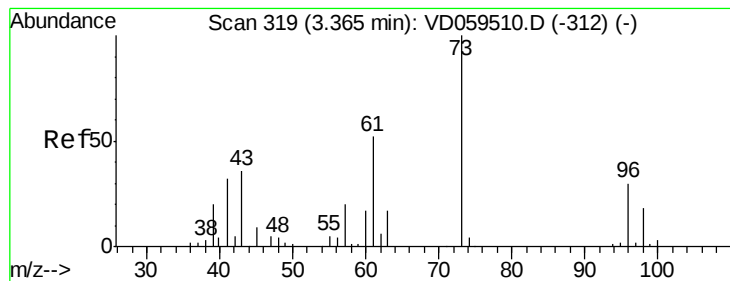
Tot Ion: 76 Resp: 76278
Ion Ratio Lower Upper
76 100
78 9.4 6.9 10.3



#18
Methyl Acetate
Concen: 7.00 ug/l
RT: 2.91 min Scan# 273
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 43 Resp: 21620
Ion Ratio Lower Upper
43 100
74 9.8 13.8 20.8#



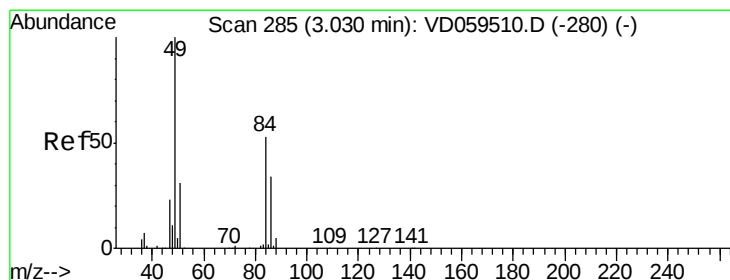
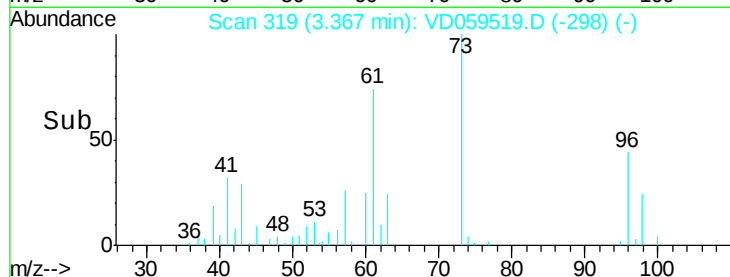
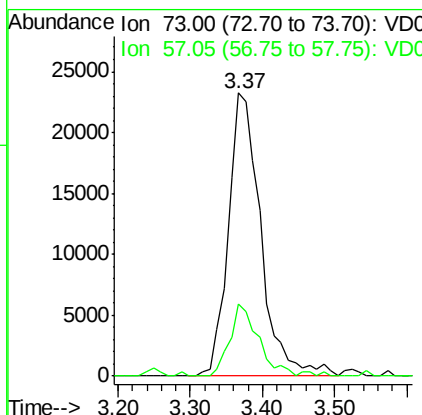
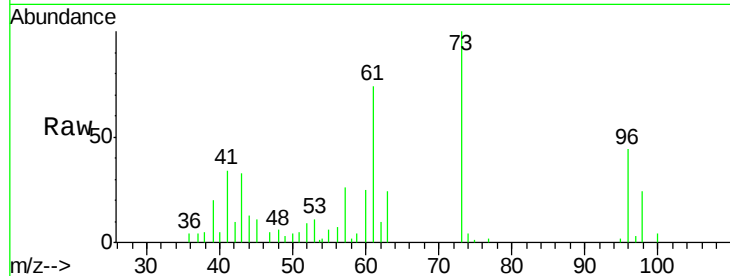


#19

Methyl tert-butyl Ether
 Concen: 9.24 ug/l
 RT: 3.37 min Scan# 319
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

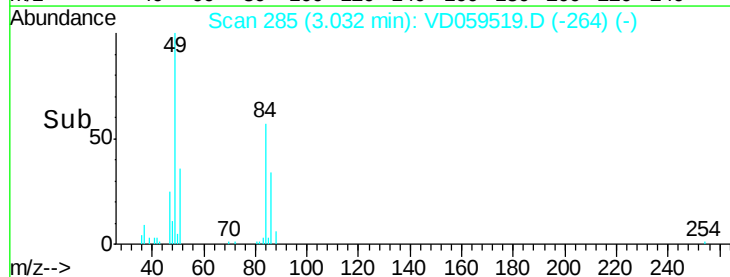
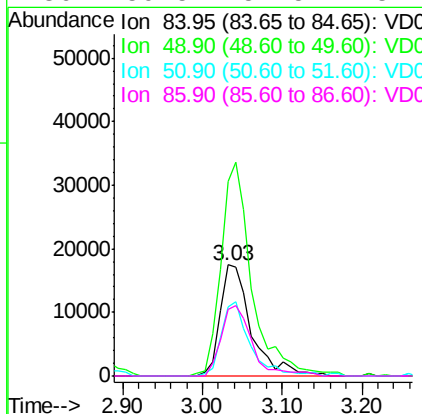
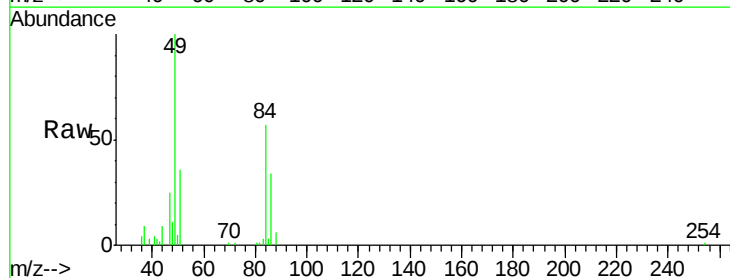
Tot Ion: 73 Resp: 72722
 Ion Ratio Lower Upper
 73 100
 57 25.6 16.5 24.7#

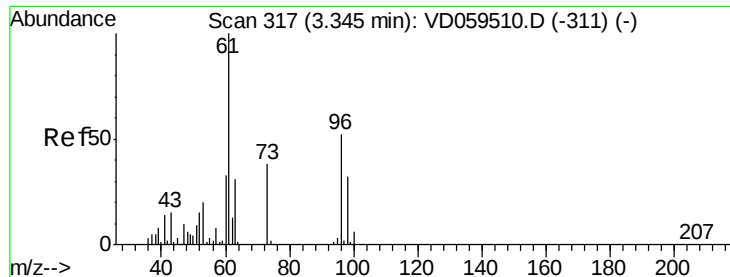


#20

Methylene Chloride
 Concen: 10.73 ug/l
 RT: 3.03 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 84 Resp: 48016
 Ion Ratio Lower Upper
 84 100
 49 175.3 152.2 228.2
 51 62.6 46.5 69.7
 86 59.5 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 9.54 ug/l

RT: 3.36 min Scan# 318

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

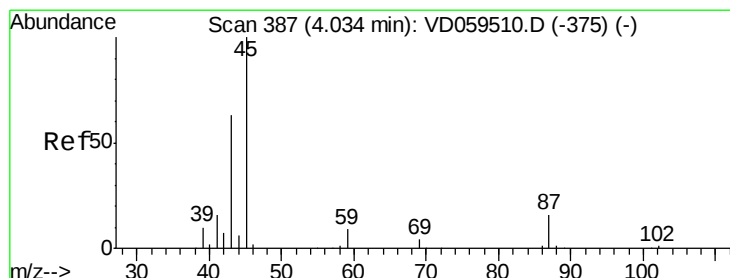
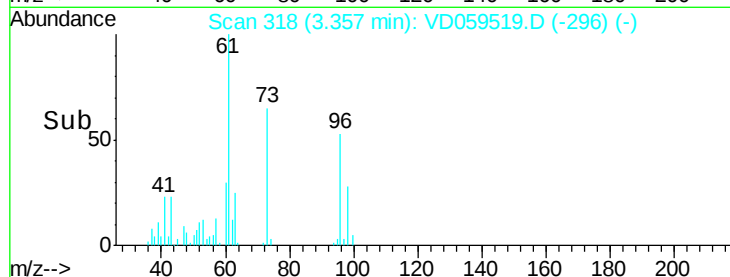
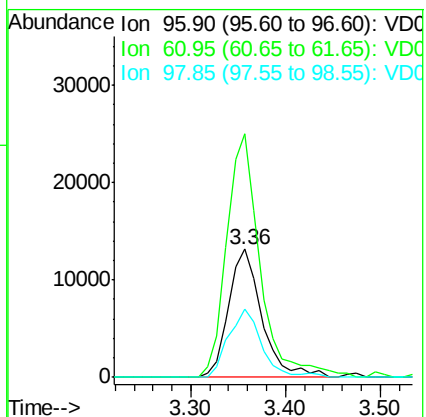
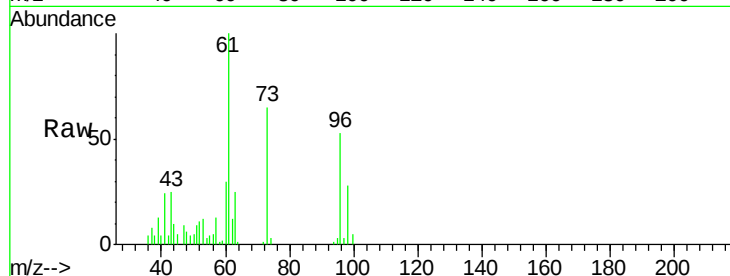
Tot Ion: 96 Resp: 32080

Ion Ratio Lower Upper

96 100

61 189.9 154.7 232.1

98 53.7 49.9 74.9



#22

Diisopropyl ether

Concen: 9.82 ug/l

RT: 4.04 min Scan# 387

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion: 45 Resp: 240702

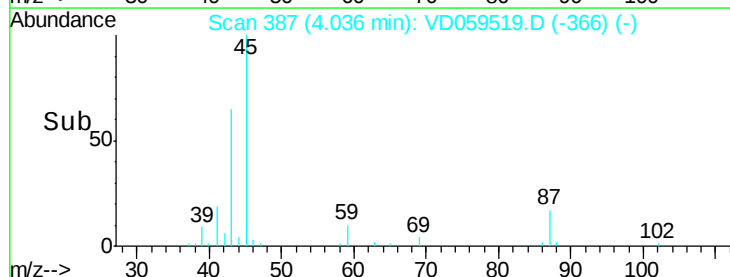
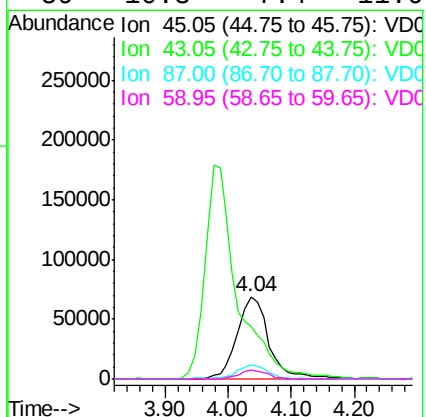
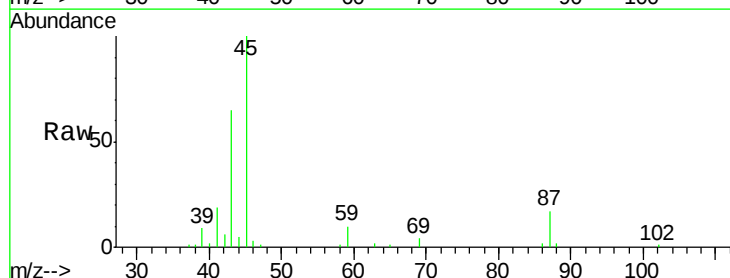
Ion Ratio Lower Upper

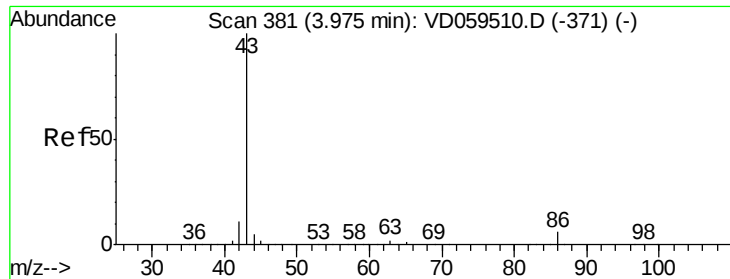
45 100

43 64.6 50.7 76.1

87 16.5 13.4 20.0

59 10.3 7.4 11.0





#23

Vinyl Acetate

Concen: 46.98 ug/l

RT: 3.98 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

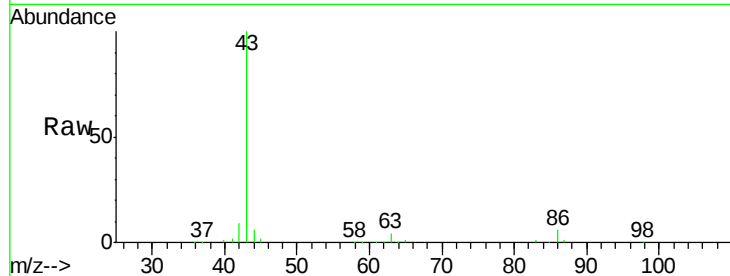
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 635621

Ion Ratio Lower Upper

43 100

86 5.8 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

3.98

200000

150000

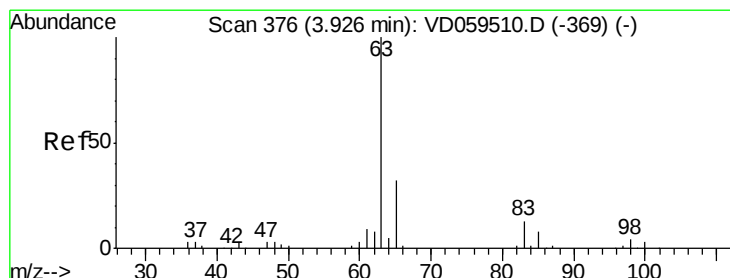
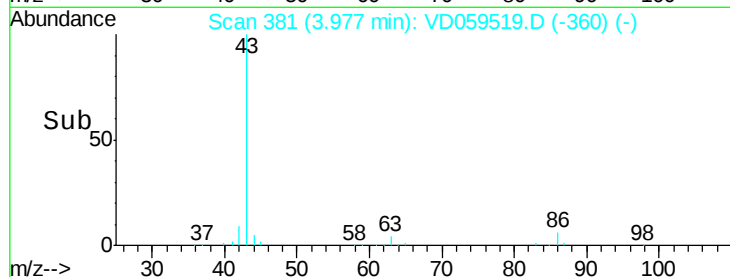
100000

50000

0

Time-->

3.80 3.90 4.00 4.10 4.20



#24

1,1-Dichloroethane

Concen: 9.65 ug/l

RT: 3.94 min Scan# 377

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

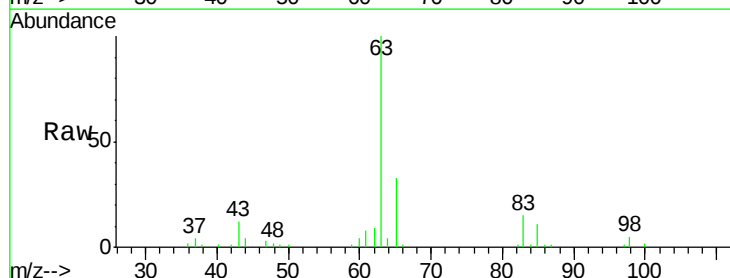
Tgt Ion: 63 Resp: 133967

Ion Ratio Lower Upper

63 100

98 4.8 2.0 5.8

100 1.8 1.5 4.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

3.94

60000

50000

40000

30000

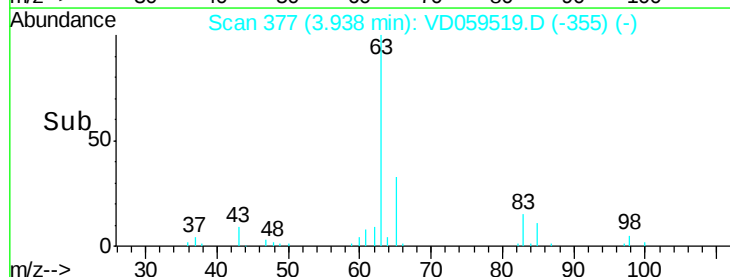
20000

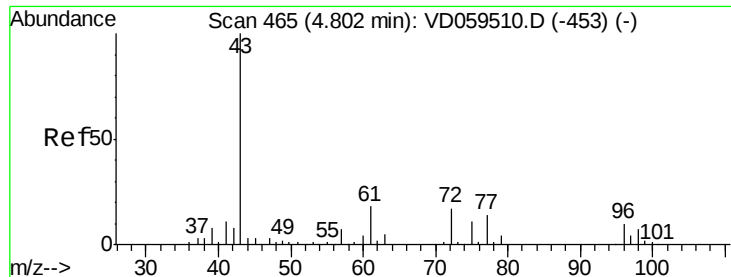
10000

0

Time-->

3.80 3.90 4.00 4.10





#25

2-Butanone

Concen: 46.42 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

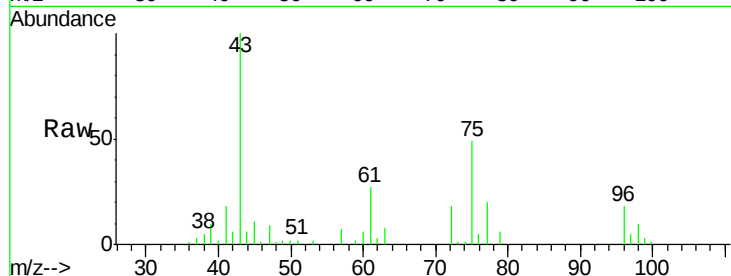
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 111496

Ion Ratio Lower Upper

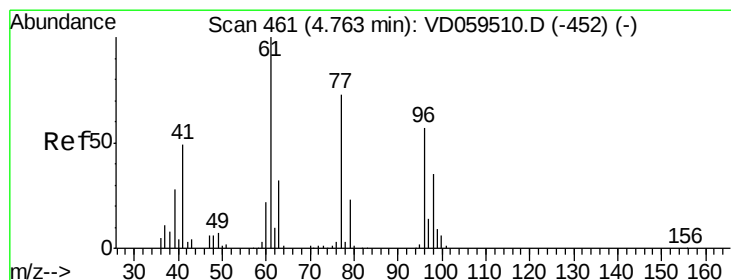
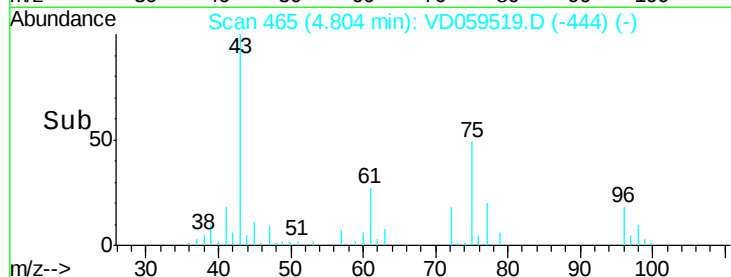
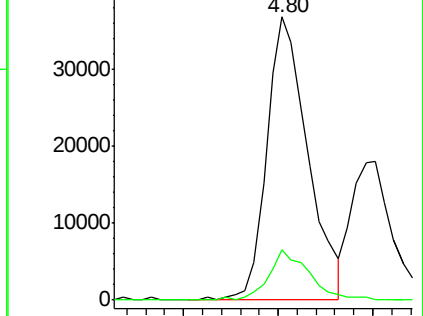
43 100

72 17.6 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 9.01 ug/l

RT: 4.76 min Scan# 461

Delta R.T. 0.00 min

Lab File: VD059519.D

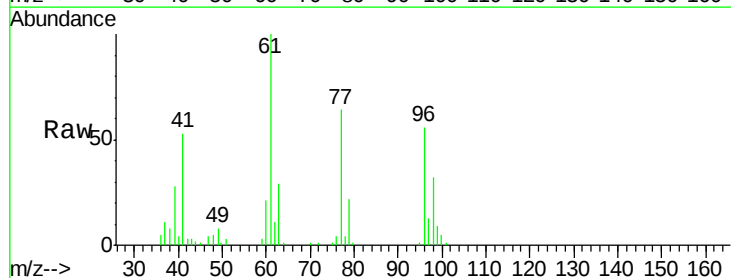
Acq: 2 Jul 2018 23:46

Tgt Ion: 77 Resp: 102289

Ion Ratio Lower Upper

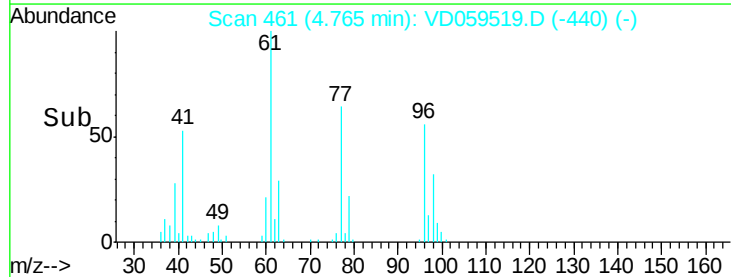
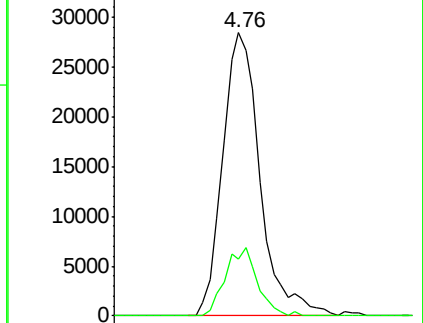
77 100

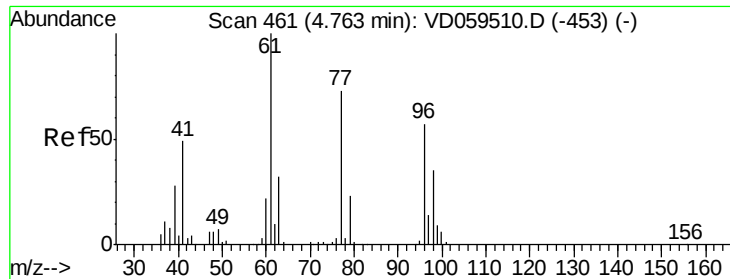
97 20.2 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 10.06 ug/l

RT: 4.76 min Scan# 461

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

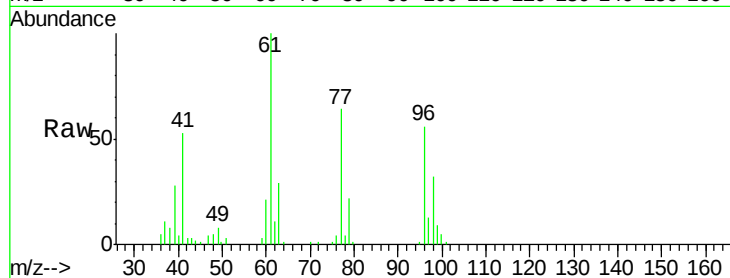
Tot Ion: 96 Resp: 73277

Ion Ratio Lower Upper

96 100

61 177.3 0.0 350.8

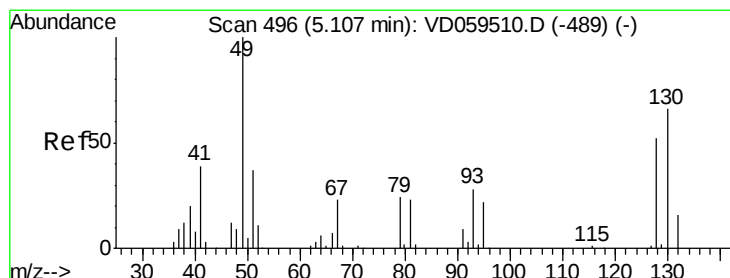
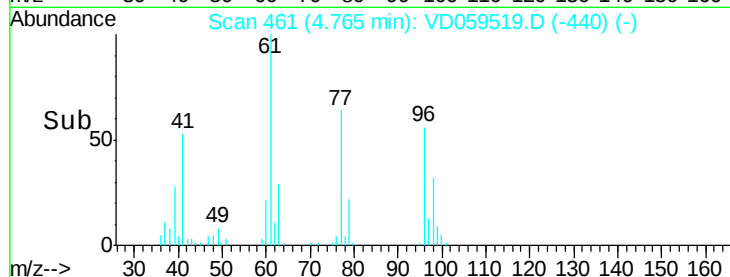
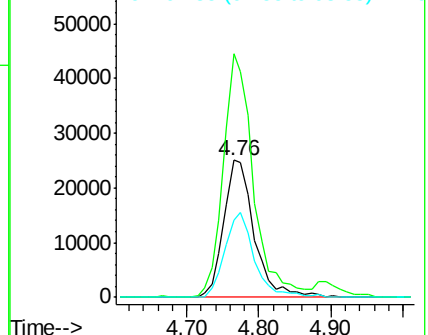
98 56.4 0.0 123.4



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 10.79 ug/l

RT: 5.11 min Scan# 496

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

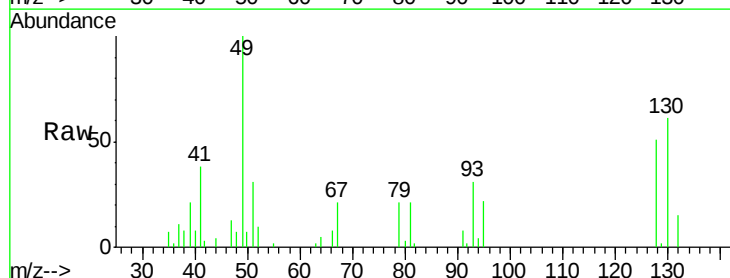
Tgt Ion: 49 Resp: 57475

Ion Ratio Lower Upper

49 100

129 1.6 0.0 4.4

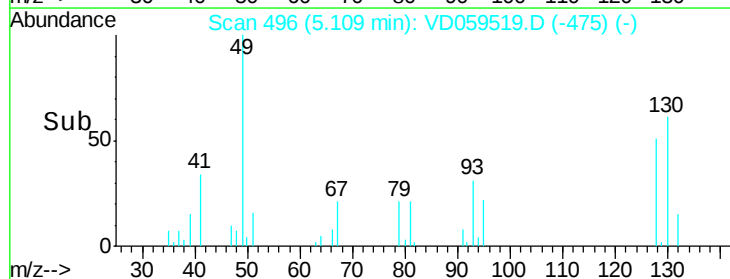
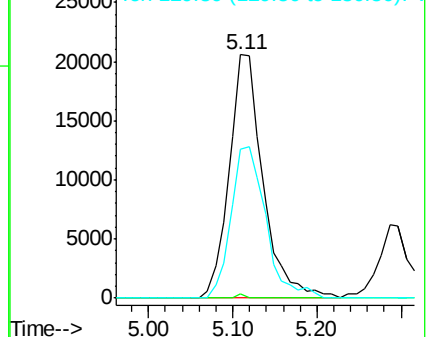
130 61.4 52.6 78.8

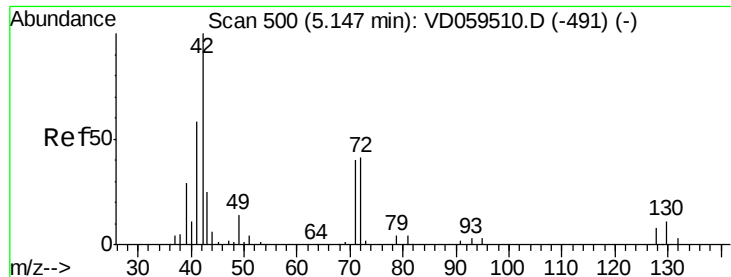


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

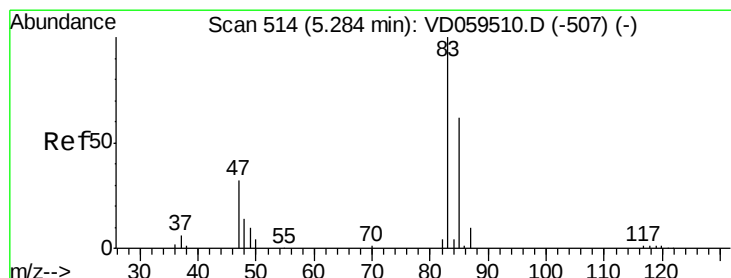
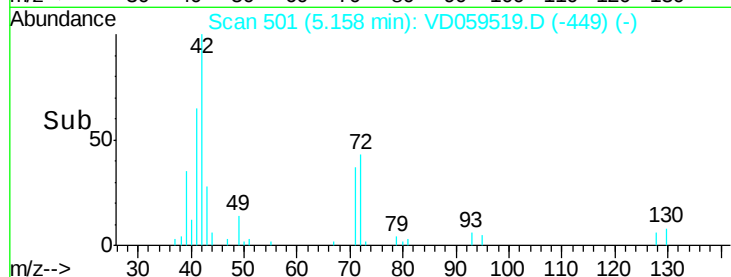
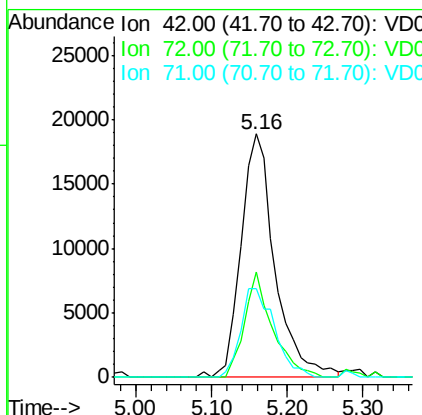
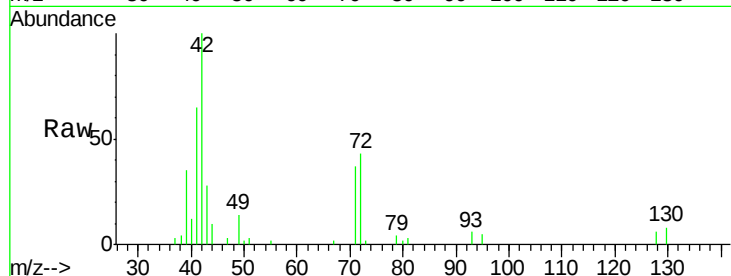




#29
Tetrahydrofuran
Concen: 47.86 ug/l
RT: 5.16 min Scan# 501
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

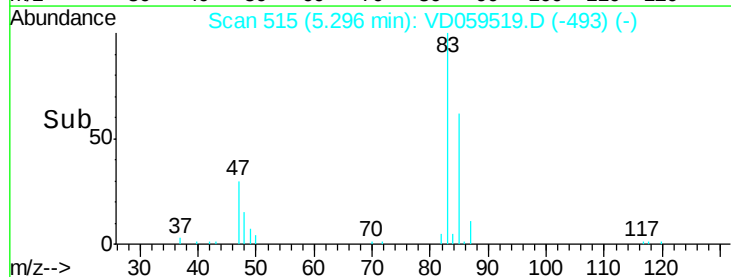
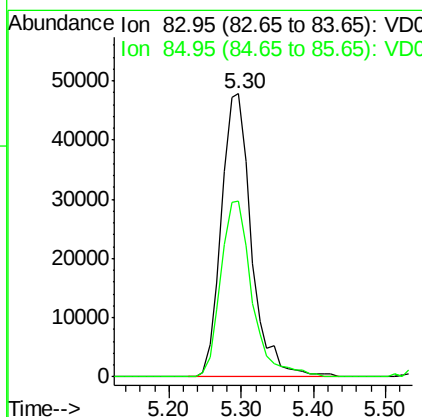
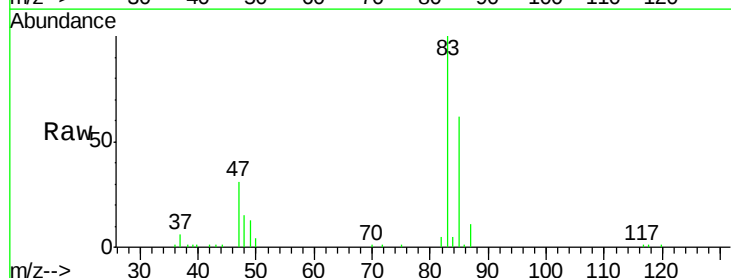
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

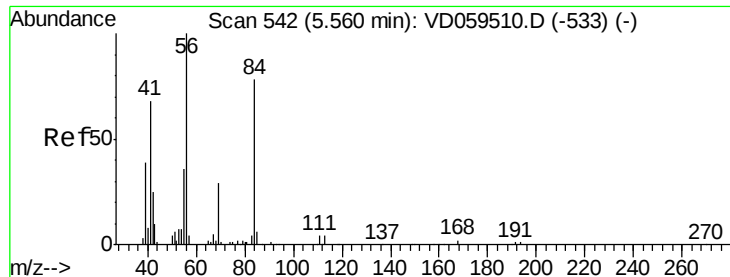
Tot Ion: 42 Resp: 58543
Ion Ratio Lower Upper
42 100
72 35.7 32.9 49.3
71 36.6 31.6 47.4



#30
Chloroform
Concen: 9.45 ug/l
RT: 5.30 min Scan# 515
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 83 Resp: 138439
Ion Ratio Lower Upper
83 100
85 62.0 49.8 74.6

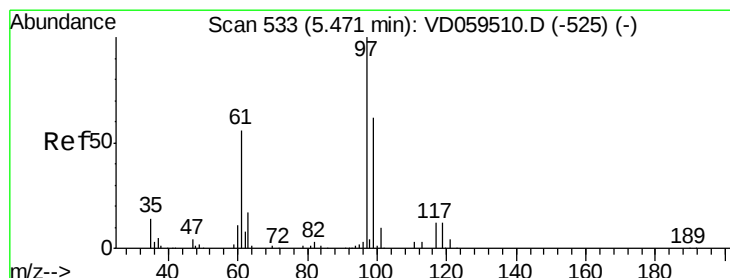
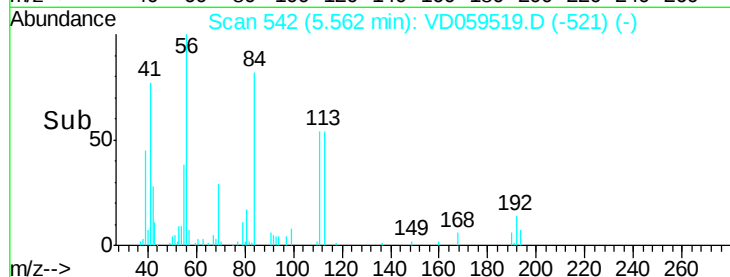
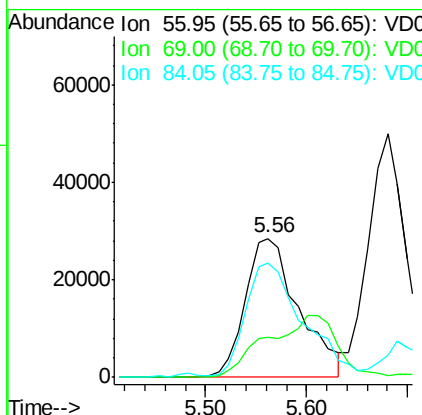
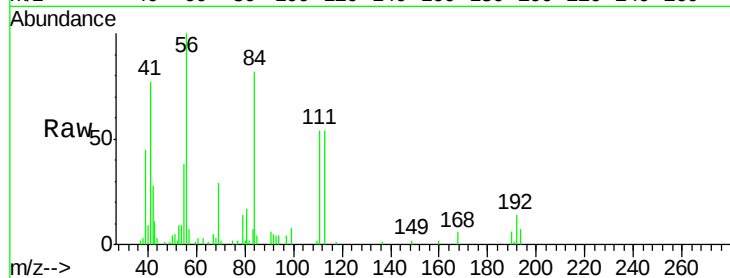




#31
Cyclohexane
Concen: 8.66 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

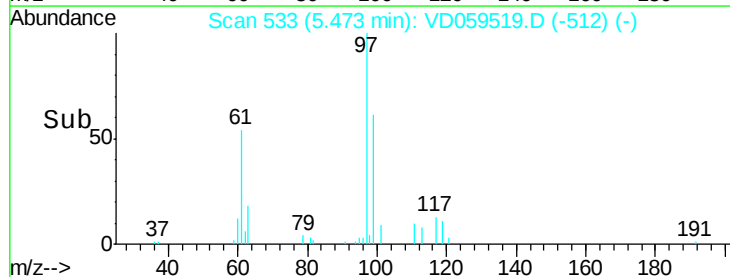
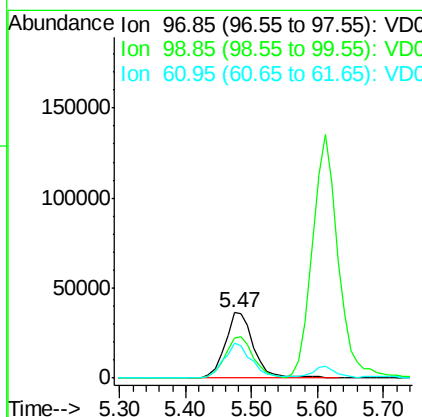
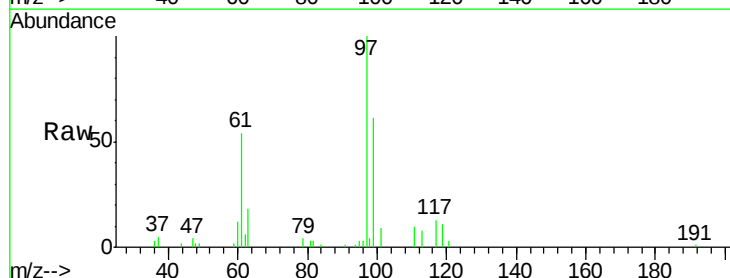
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

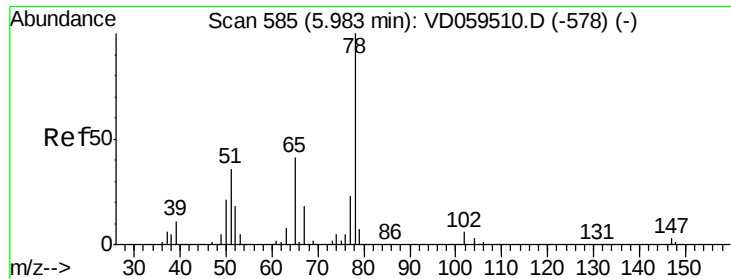
Tot Ion: 56 Resp: 105267
Ion Ratio Lower Upper
56 100
69 29.0 22.9 34.3
84 81.8 63.4 95.0



#32
1,1,1-Trichloroethane
Concen: 9.46 ug/l
RT: 5.47 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 97 Resp: 109777
Ion Ratio Lower Upper
97 100
99 60.8 49.6 74.4
61 54.0 44.8 67.2





#33

1,2-Dichloroethane-d4

Concen: 9.46 ug/l

RT: 5.99 min Scan# 585

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

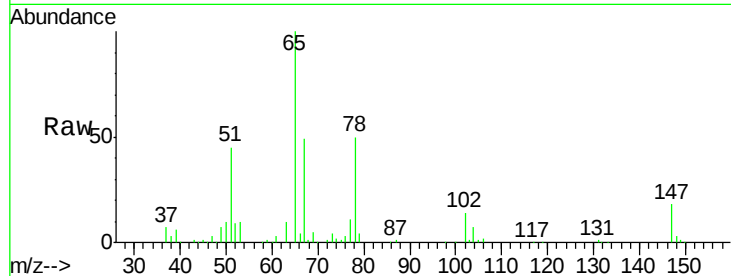
LOQ-SOIL-02-QT3-2018

Tot Ion: 65 Resp: 437348

Ion Ratio Lower Upper

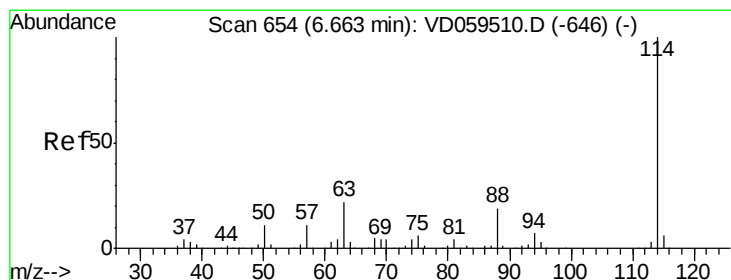
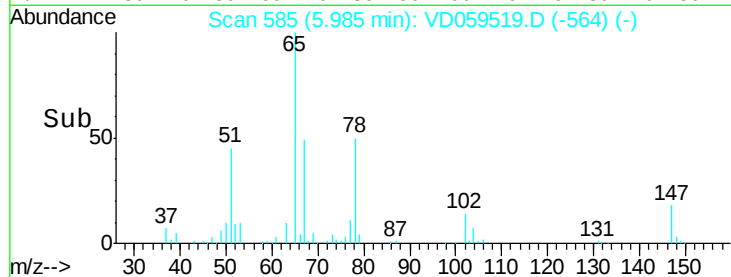
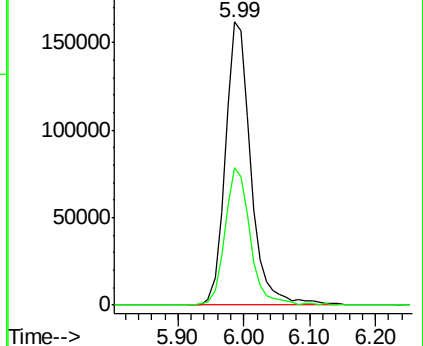
65 100

67 48.5 0.0 90.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.66 min Scan# 654

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

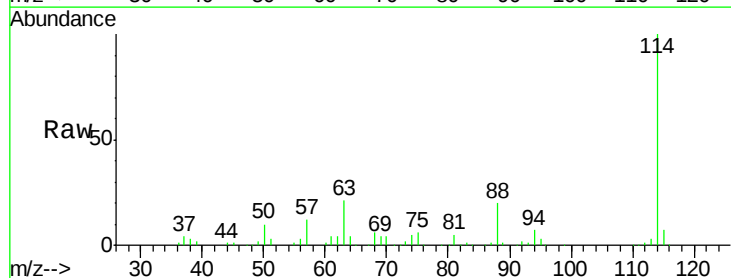
Tgt Ion: 114 Resp: 849576

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.4

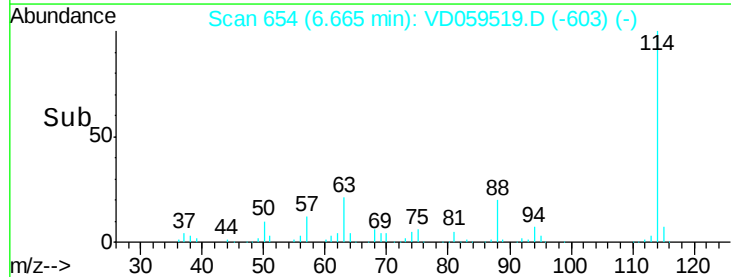
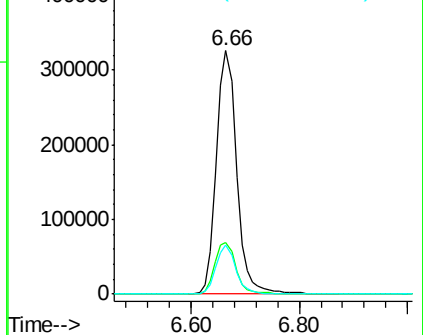
88 19.9 0.0 37.8

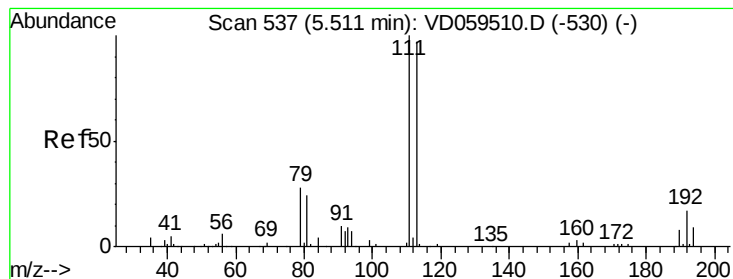


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.52 min Scan# 538

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

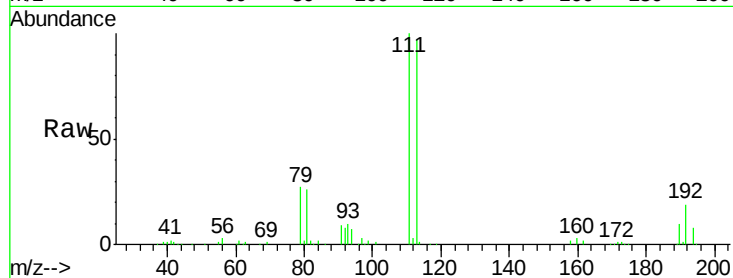
Tot Ion:113 Resp: 411364

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

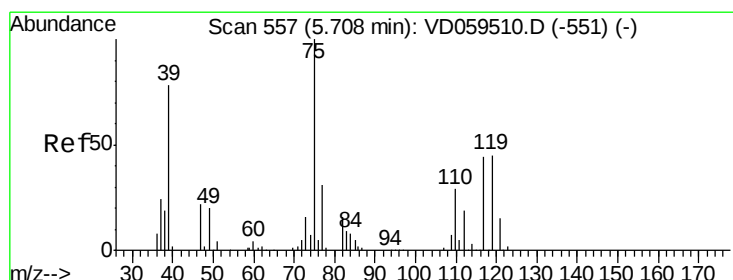
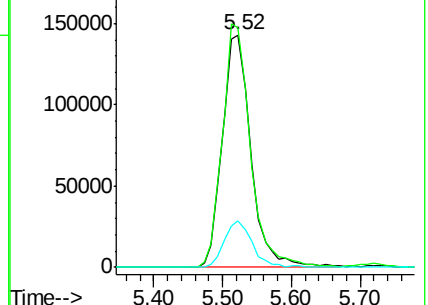
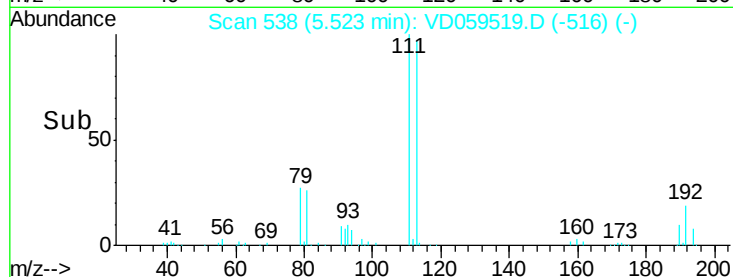
192 20.0 14.2 21.2



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 10.81 ug/l

RT: 5.71 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

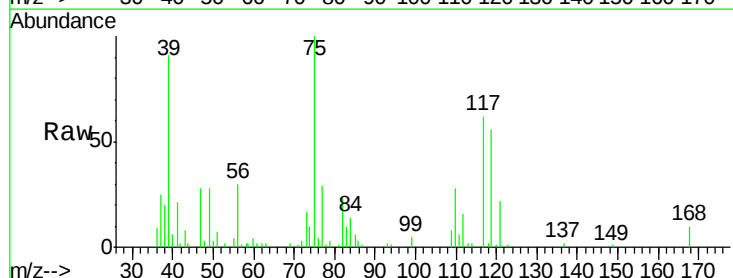
Tgt Ion: 75 Resp: 98590

Ion Ratio Lower Upper

75 100

110 28.3 14.4 43.4

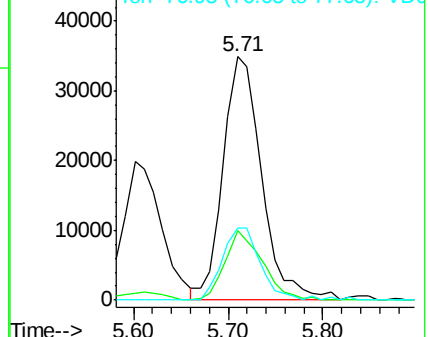
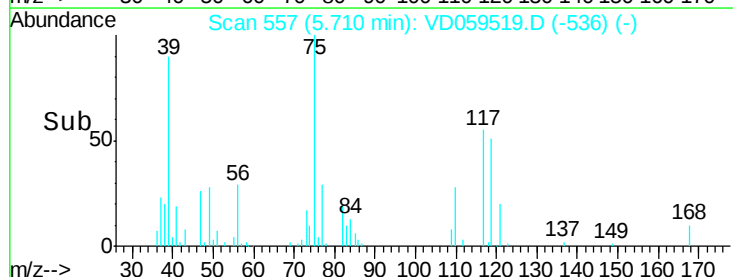
77 29.5 25.0 37.6

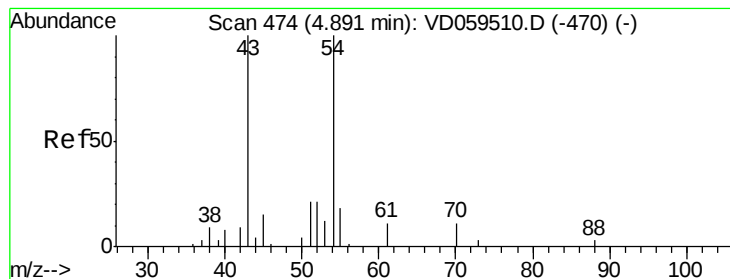


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 11.39 ug/l

RT: 4.90 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

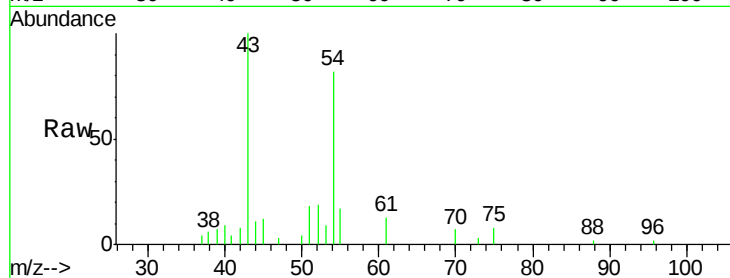
Tot Ion: 43 Resp: 57815

Ion Ratio Lower Upper

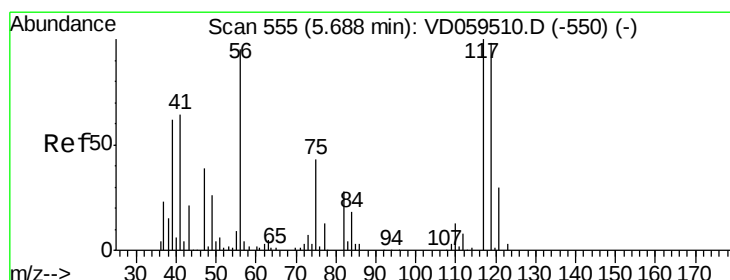
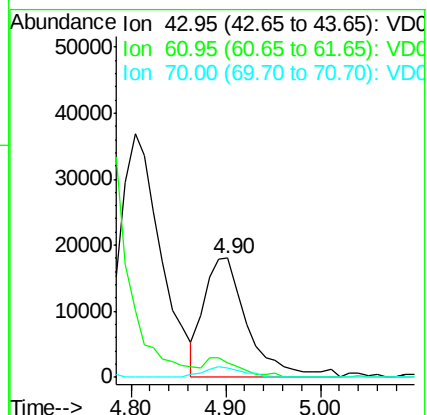
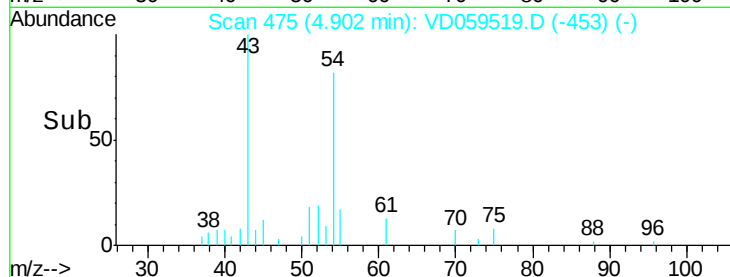
43 100

61 12.5 11.5 17.3

70 7.5 6.8 10.2



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 10.56 ug/l

RT: 5.70 min Scan# 556

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

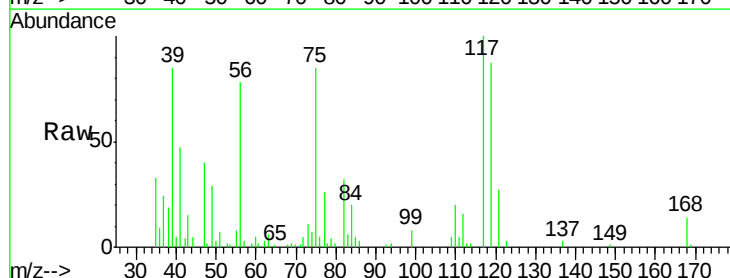
Tgt Ion: 117 Resp: 94734

Ion Ratio Lower Upper

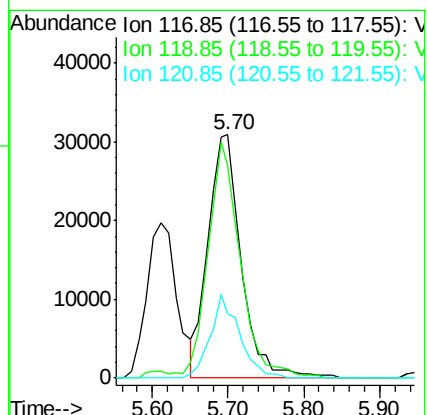
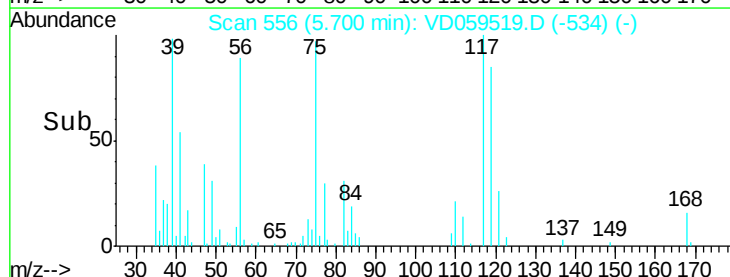
117 100

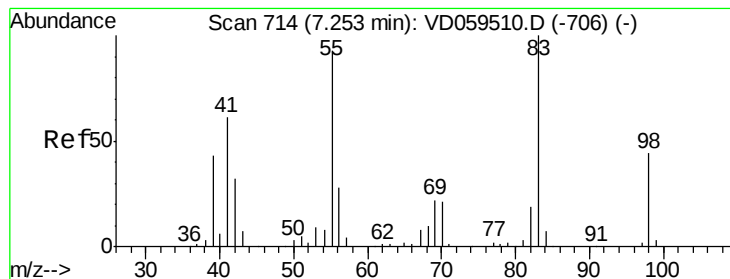
119 87.2 76.4 114.6

121 26.6 23.9 35.9



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 10.76 ug/l

RT: 7.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

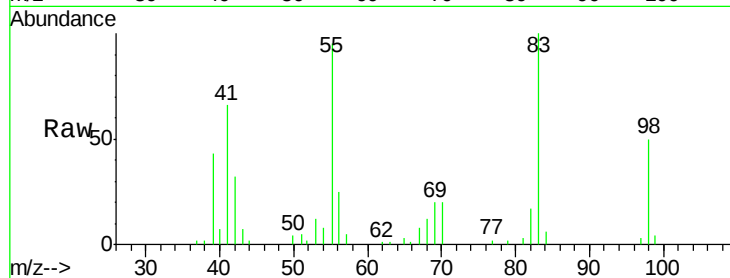
Tot Ion: 83 Resp: 89437

Ion Ratio Lower Upper

83 100

55 94.8 74.2 111.4

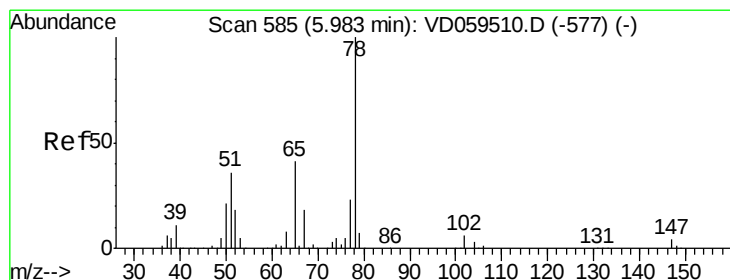
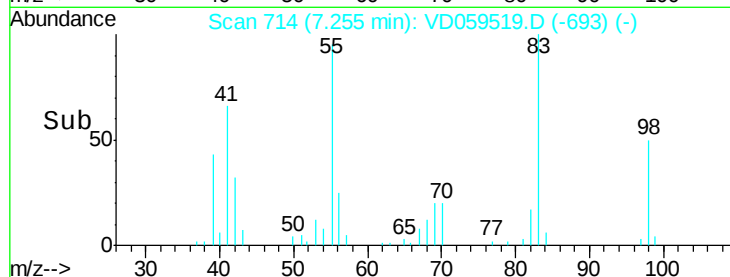
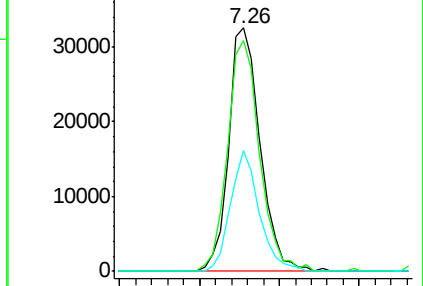
98 49.6 35.5 53.3



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 10.18 ug/l

RT: 5.99 min Scan# 585

Delta R.T. 0.00 min

Lab File: VD059519.D

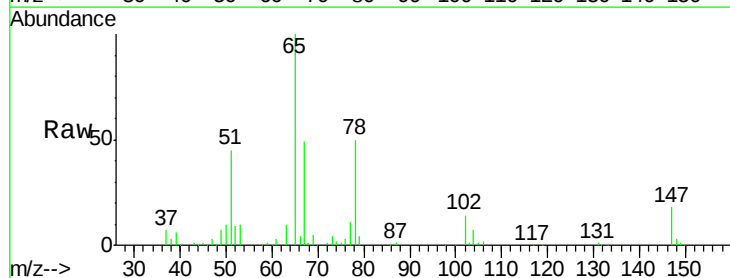
Acq: 2 Jul 2018 23:46

Tgt Ion: 78 Resp: 213773

Ion Ratio Lower Upper

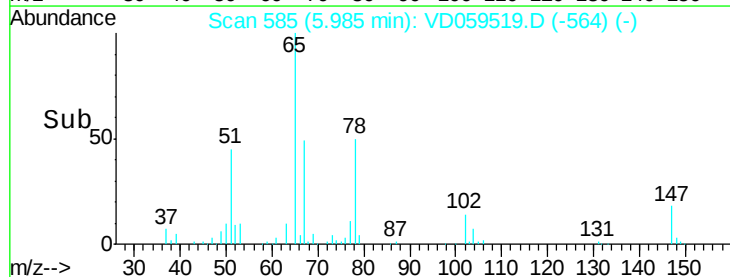
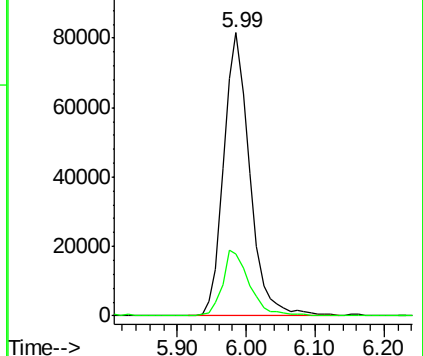
78 100

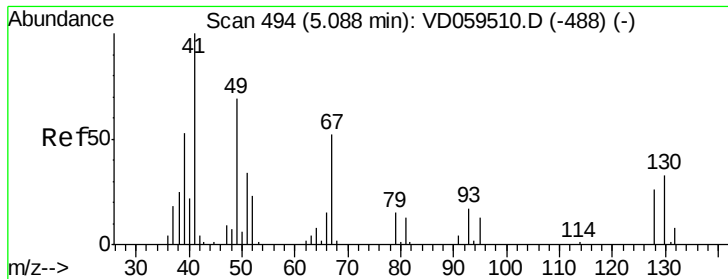
77 22.1 18.6 27.8



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 11.39 ug/l

RT: 5.09 min Scan# 494

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 41 Resp: 29314

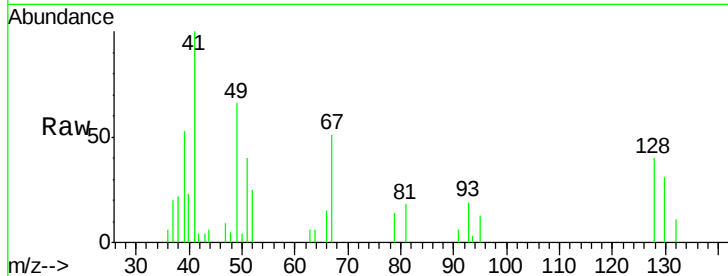
Ion Ratio Lower Upper

41 100

39 52.7 43.0 64.4

67 50.7 41.4 62.2

52 25.1 18.6 28.0

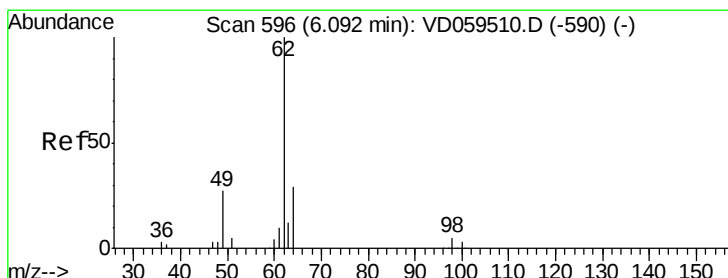
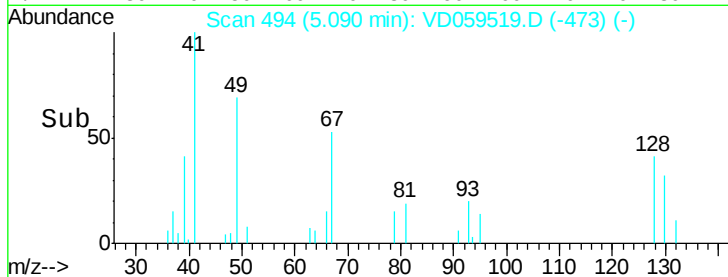
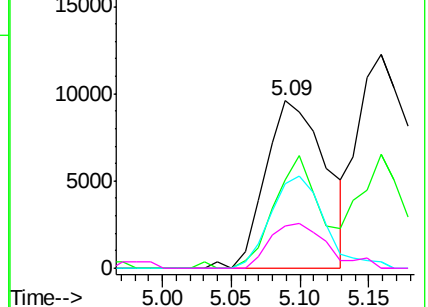


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 10.05 ug/l

RT: 6.10 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD059519.D

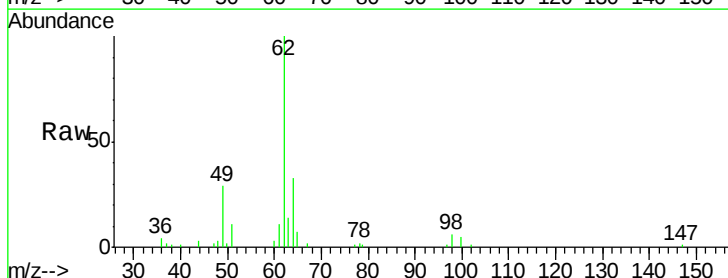
Acq: 2 Jul 2018 23:46

Tgt Ion: 62 Resp: 94410

Ion Ratio Lower Upper

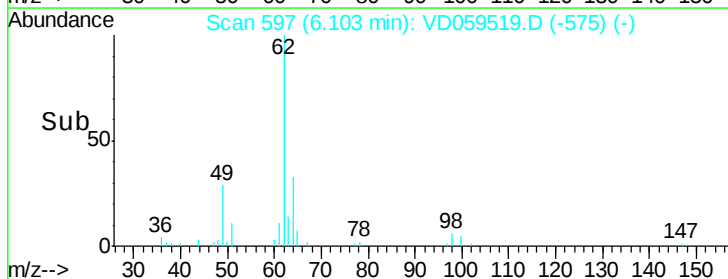
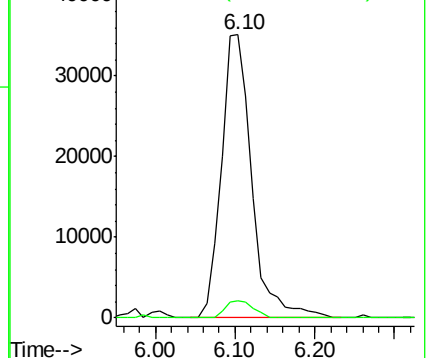
62 100

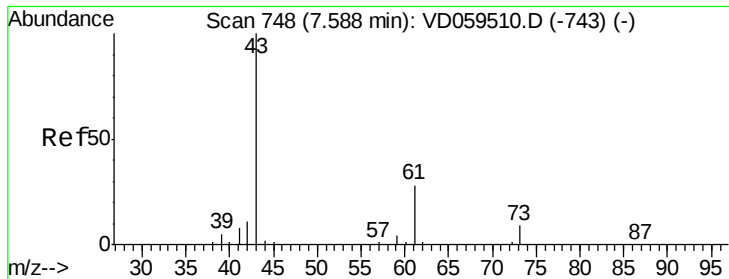
98 6.2 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



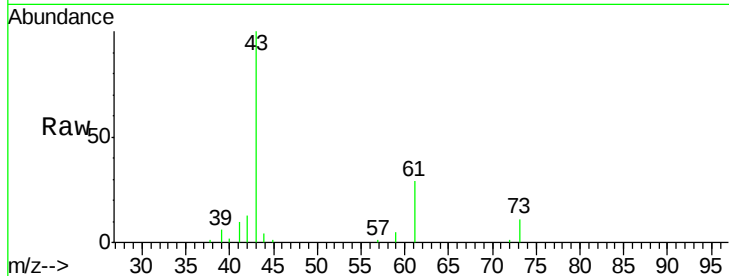


#43

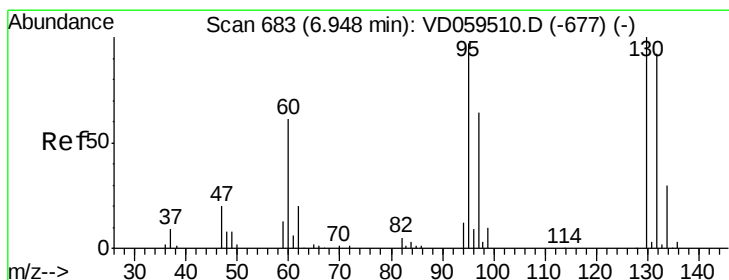
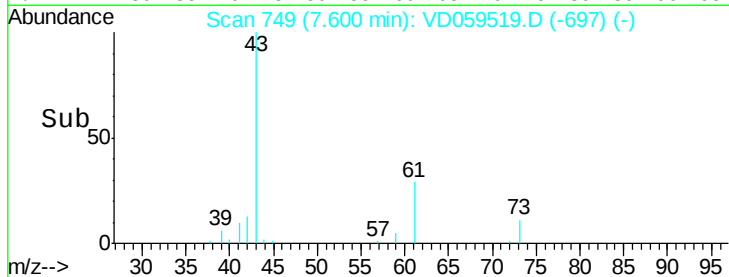
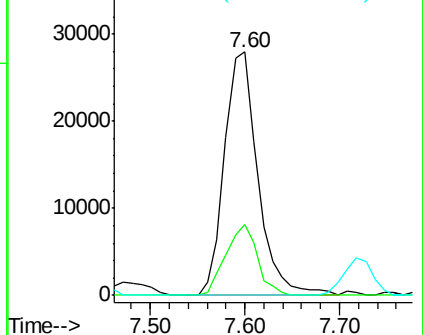
Isopropyl Acetate
 Concen: 10.22 ug/l
 RT: 7.60 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 68631
 Ion Ratio Lower Upper
 43 100
 61 29.2 22.3 33.5
 87 0.0 0.4 0.6#



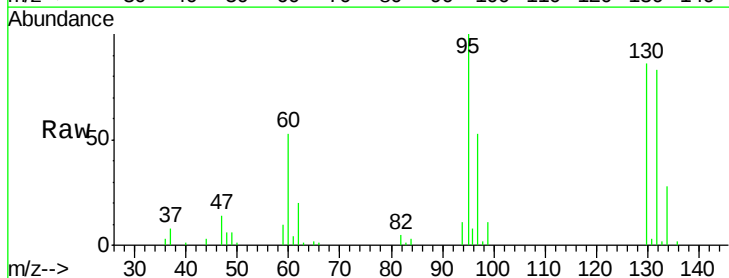
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



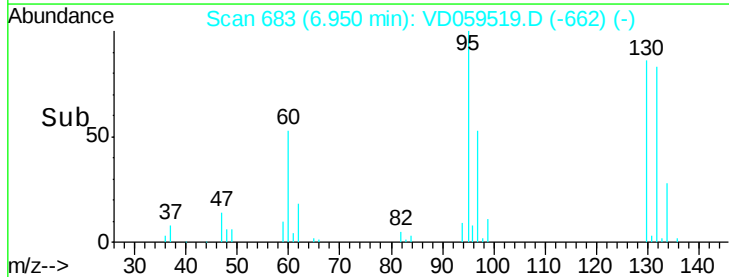
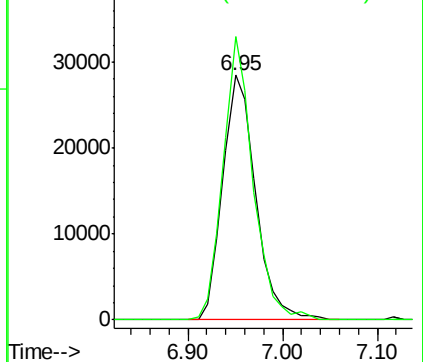
#44

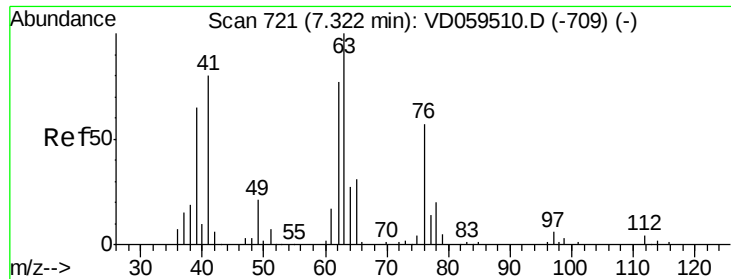
Trichloroethene
 Concen: 10.76 ug/l
 RT: 6.95 min Scan# 683
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 130 Resp: 68581
 Ion Ratio Lower Upper
 130 100
 95 115.8 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC

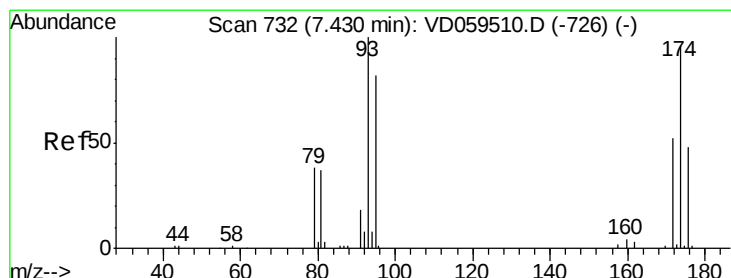
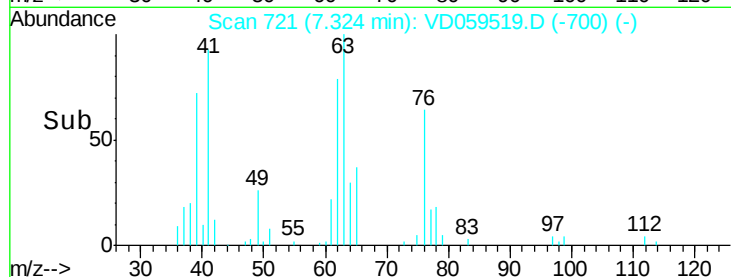
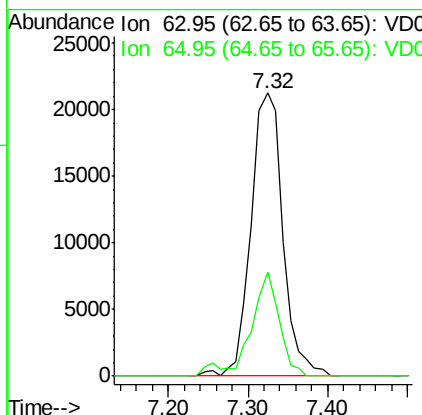
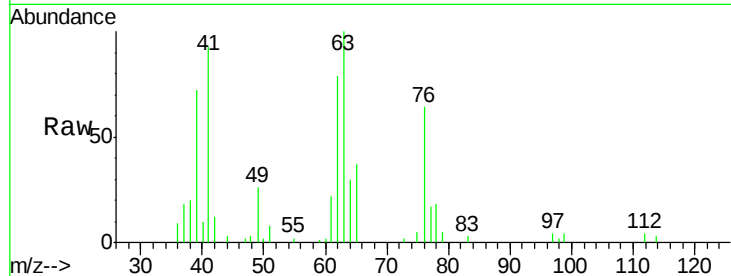




#45
 1,2-Dichloropropane
 Concen: 9.95 ug/l
 RT: 7.32 min Scan# 721
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

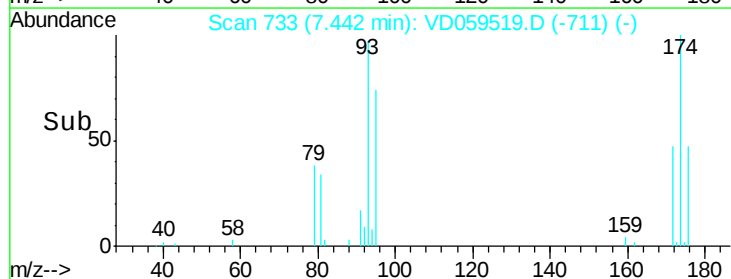
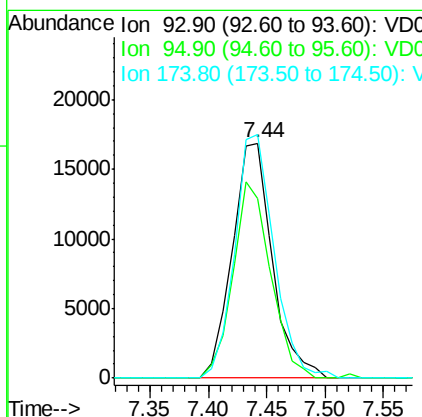
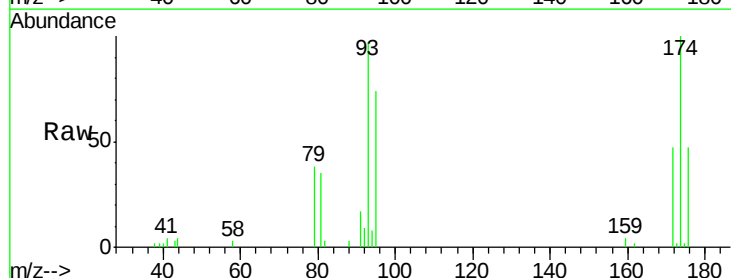
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

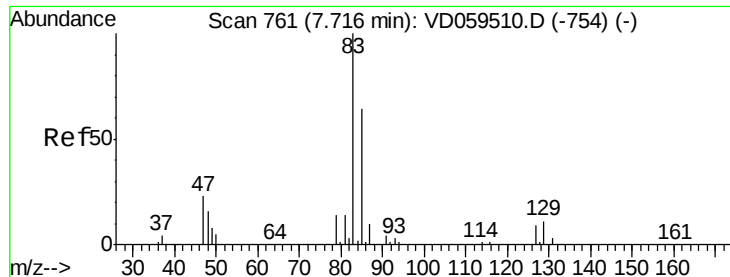
Tot Ion: 63 Resp: 58413
 Ion Ratio Lower Upper
 63 100
 65 37.0 24.4 36.6#



#46
 Dibromomethane
 Concen: 10.13 ug/l
 RT: 7.44 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 93 Resp: 40242
 Ion Ratio Lower Upper
 93 100
 95 76.2 65.7 98.5
 174 103.6 77.2 115.8





#47

Bromodichloromethane

Concen: 10.35 ug/l

RT: 7.72 min Scan# 761

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

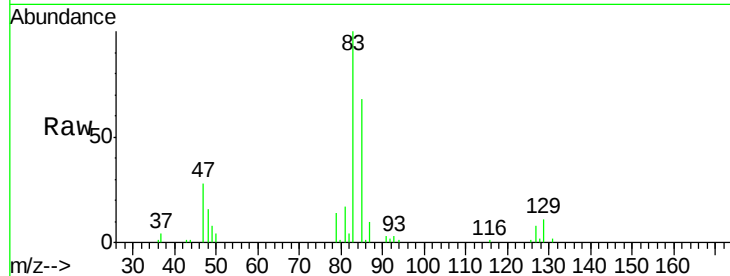
Tot Ion: 83 Resp: 95677

Ion Ratio Lower Upper

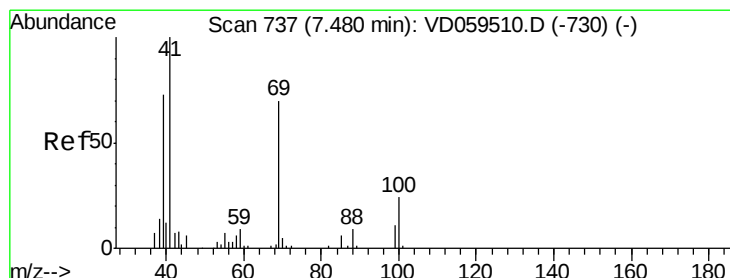
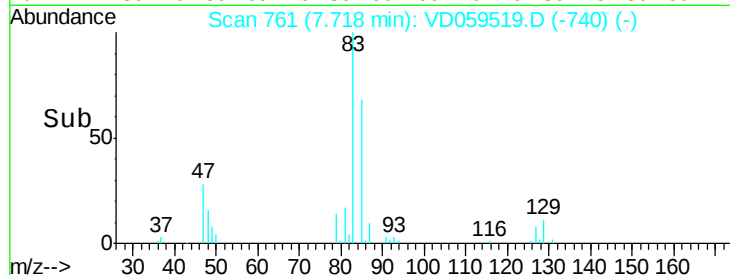
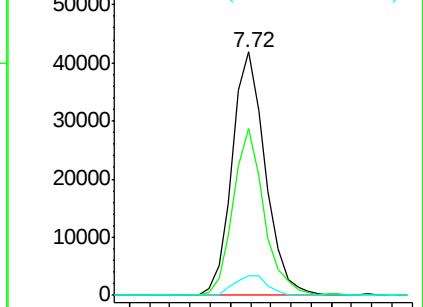
83 100

85 68.4 51.0 76.4

127 7.9 7.0 10.6



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 10.35 ug/l

RT: 7.48 min Scan# 737

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

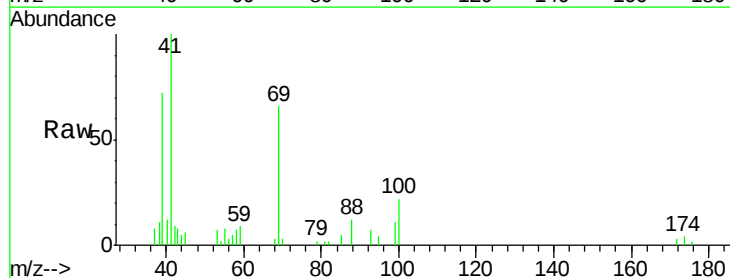
Tgt Ion: 41 Resp: 43365

Ion Ratio Lower Upper

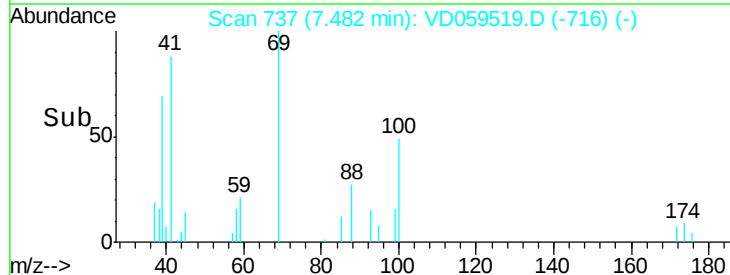
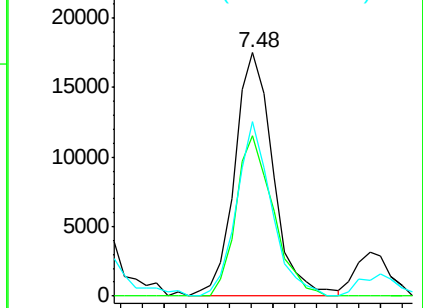
41 100

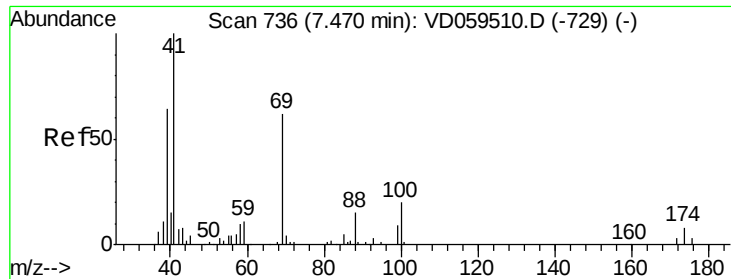
69 65.9 55.8 83.8

39 71.7 58.7 88.1



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

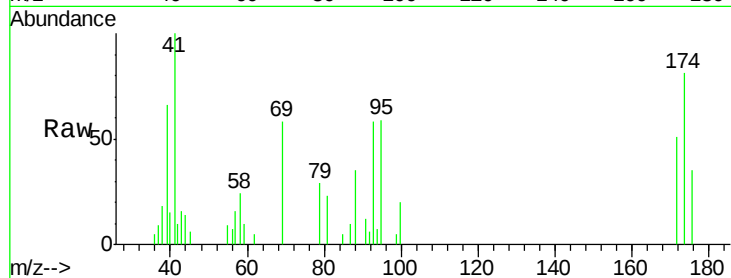




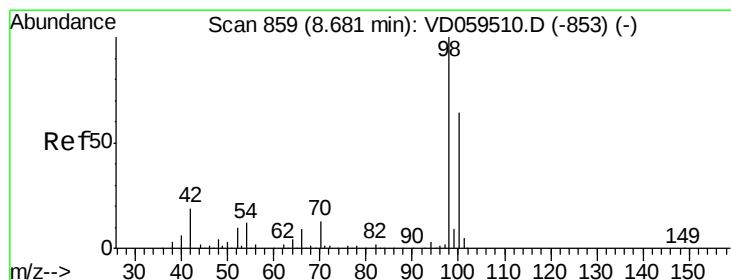
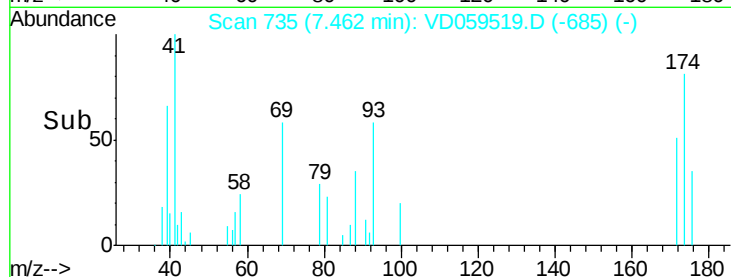
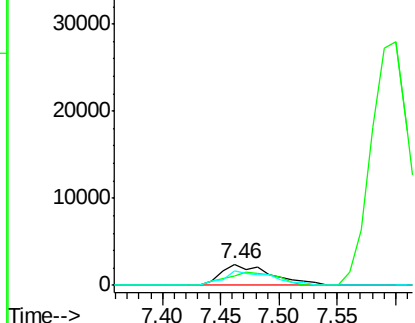
#49
1,4-Dioxane
Concen: 182.90 ug/l
RT: 7.46 min Scan# 735
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 88 Resp: 7137
Ion Ratio Lower Upper
88 100
43 47.0 41.4 62.0
58 69.1 49.4 74.2

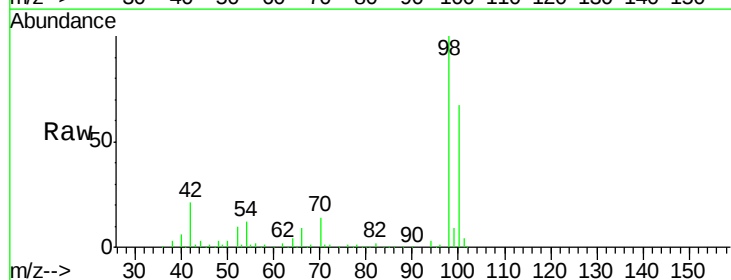


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

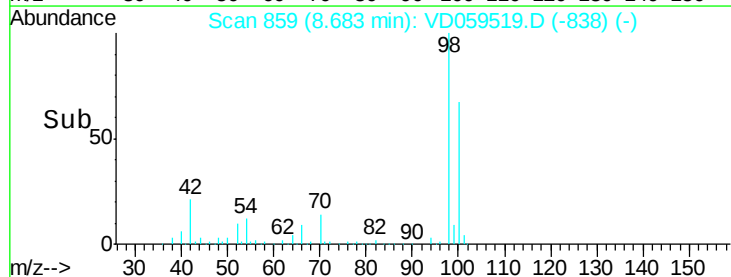
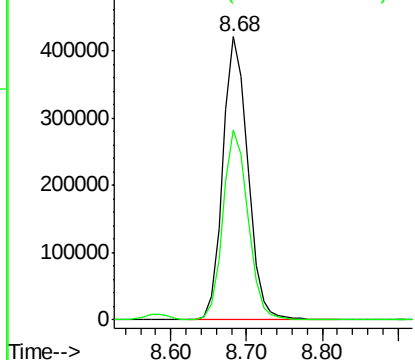


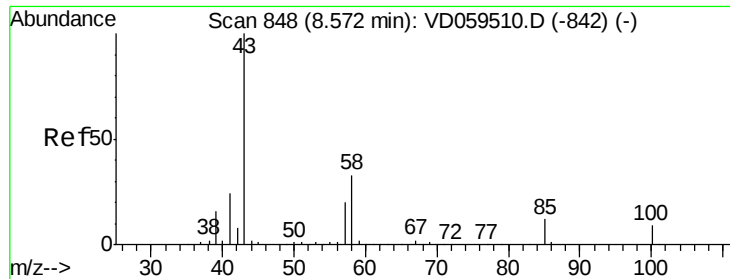
#50
Toluene-d8
Concen: 182.90 ug/l
RT: 8.68 min Scan# 859
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 98 Resp: 962049
Ion Ratio Lower Upper
98 100
100 67.0 51.8 77.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 52.27 ug/l

RT: 8.57 min Scan# 848

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

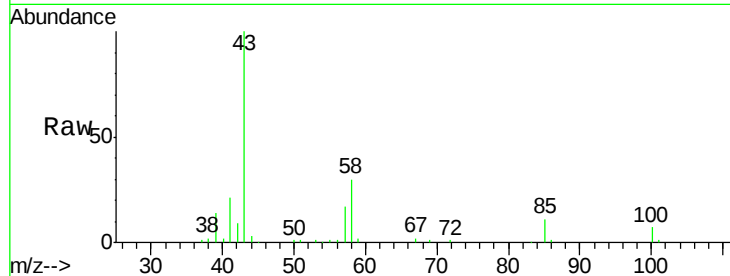
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 229191

Ion Ratio Lower Upper

43 100

58 29.6 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8.57

100000

80000

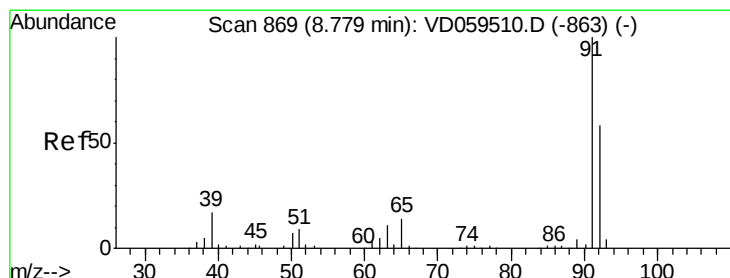
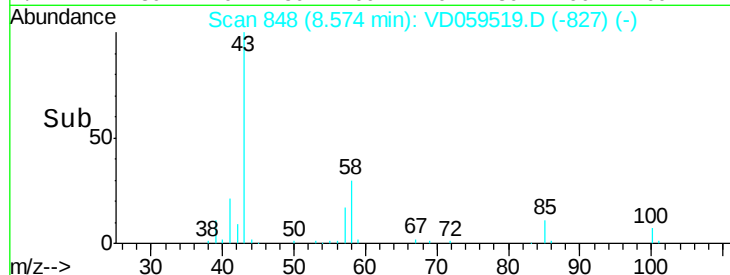
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 10.74 ug/l

RT: 8.78 min Scan# 869

Delta R.T. 0.00 min

Lab File: VD059519.D

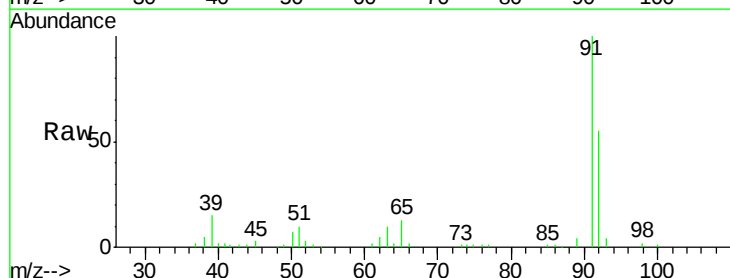
Acq: 2 Jul 2018 23:46

Tgt Ion: 92 Resp: 124484

Ion Ratio Lower Upper

92 100

91 181.4 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

8.78

100000

80000

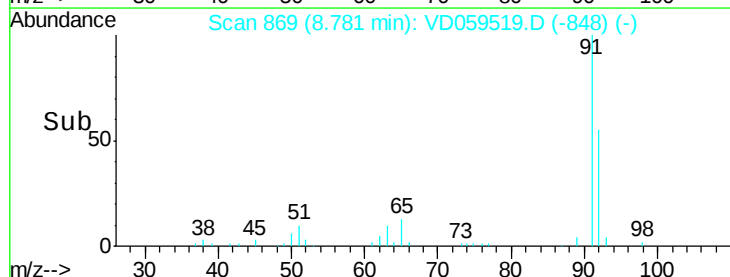
60000

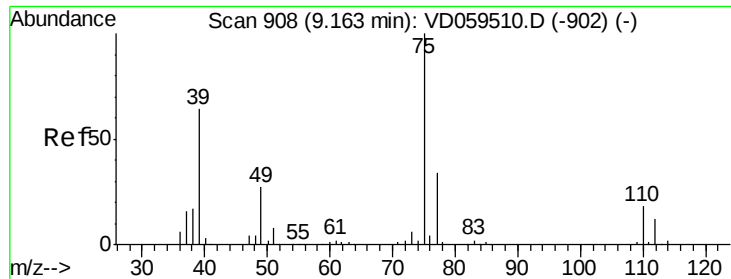
40000

20000

0

Time-->

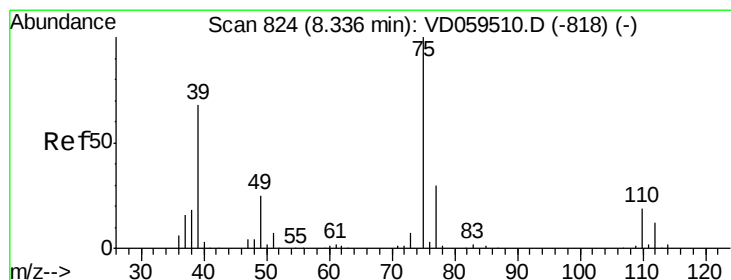
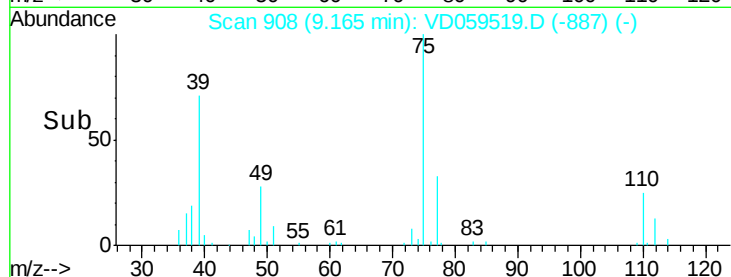
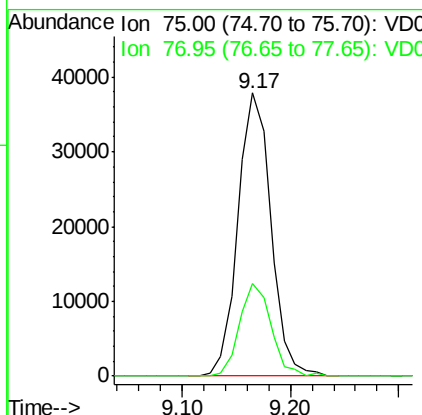
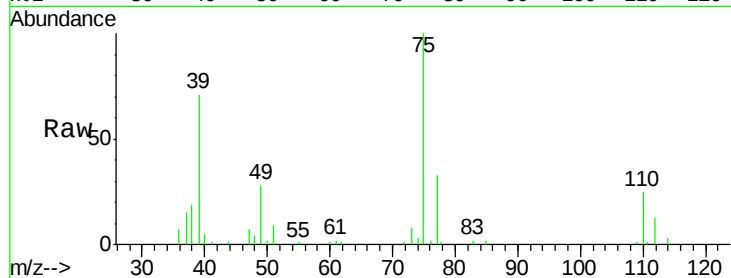




#53
 t-1,3-Dichloropropene
 Concen: 9.99 ug/l
 RT: 9.17 min Scan# 908
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

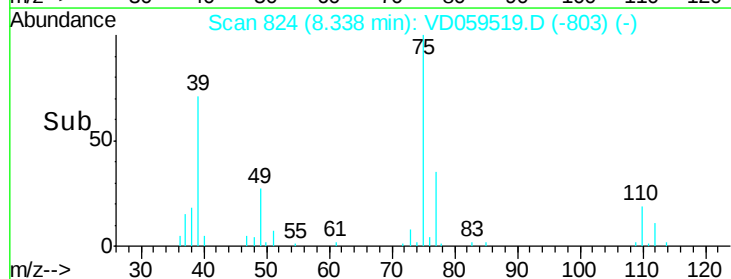
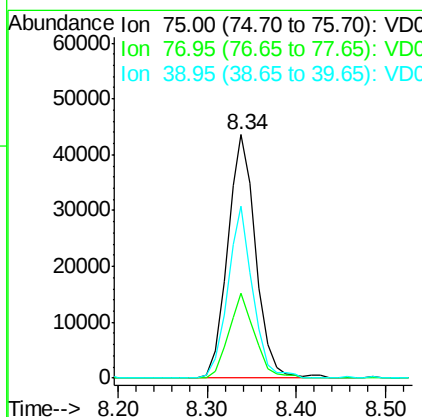
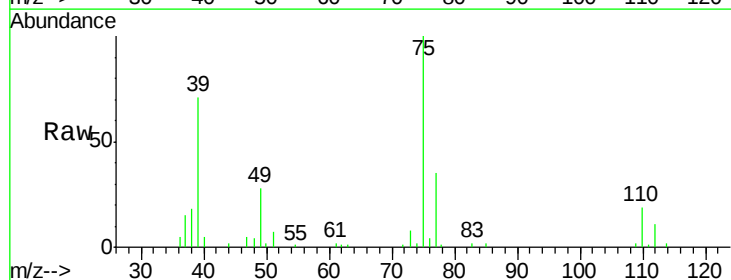
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

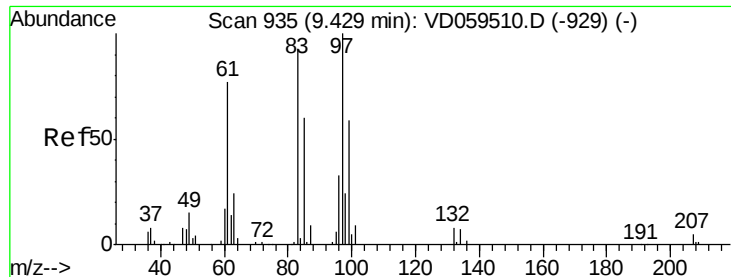
Tot Ion: 75 Resp: 80431
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.9 40.3



#54
 cis-1,3-Dichloropropene
 Concen: 10.26 ug/l
 RT: 8.34 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 75 Resp: 95769
 Ion Ratio Lower Upper
 75 100
 77 35.1 24.4 36.6
 39 70.7 54.7 82.1

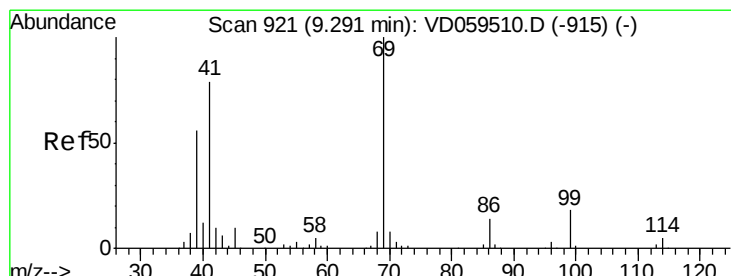
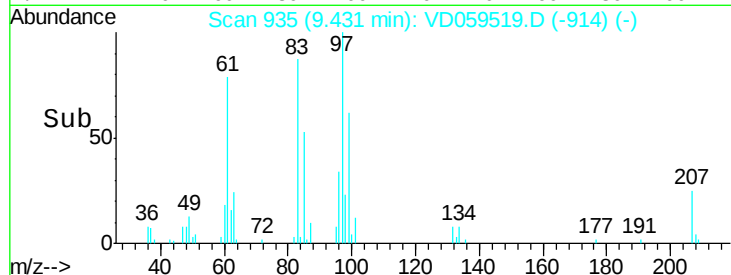
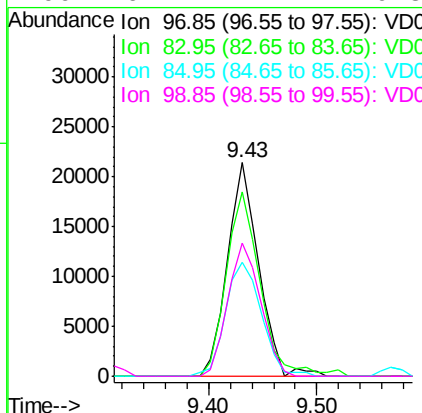
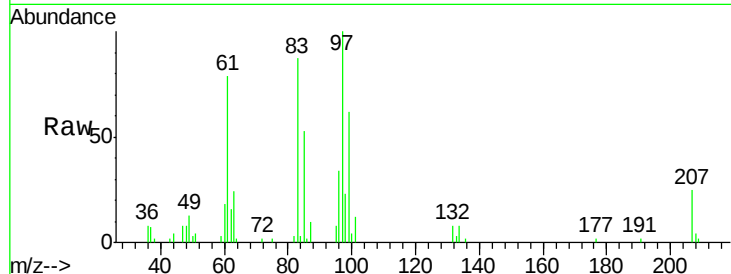




#55
 1,1,2-Trichloroethane
 Concen: 10.16 ug/l
 RT: 9.43 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

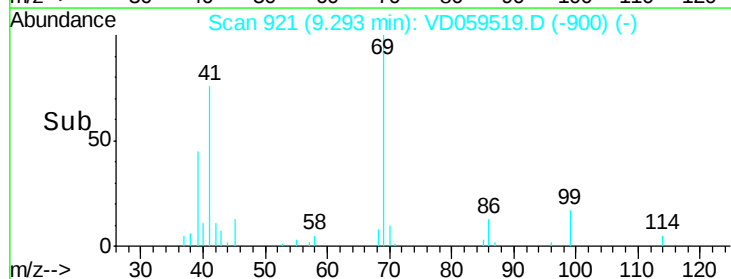
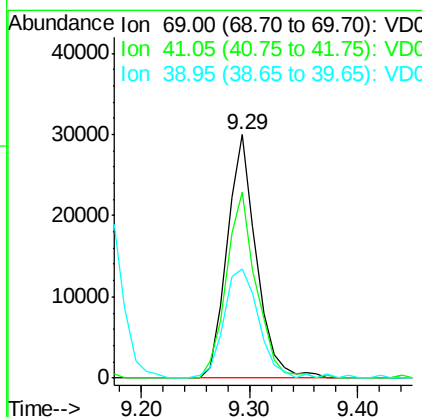
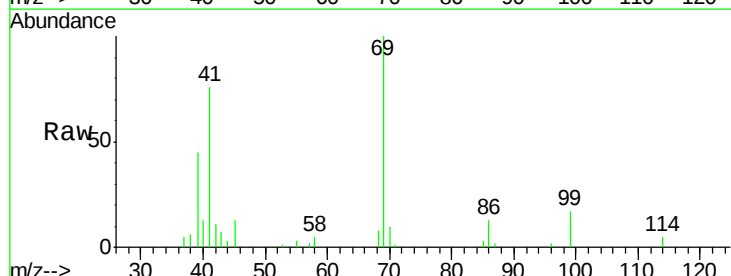
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

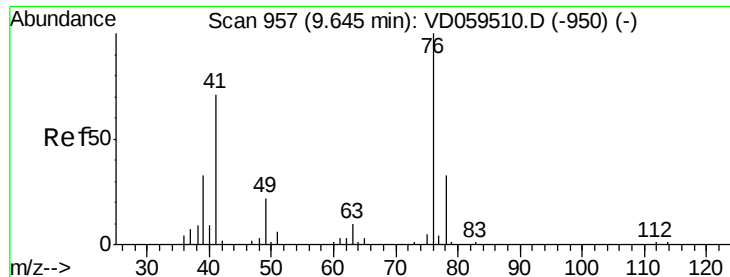
Tot Ion: 97 Resp: 43177
 Ion Ratio Lower Upper
 97 100
 83 86.5 74.3 111.5
 85 53.2 48.1 72.1
 99 62.2 47.2 70.8



#56
 Ethyl methacrylate
 Concen: 10.52 ug/l
 RT: 9.29 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 69 Resp: 56032
 Ion Ratio Lower Upper
 69 100
 41 76.3 63.4 95.0
 39 44.9 45.0 67.6#





#57

1,3-Dichloropropane

Concen: 9.95 ug/l

RT: 9.65 min Scan# 957

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

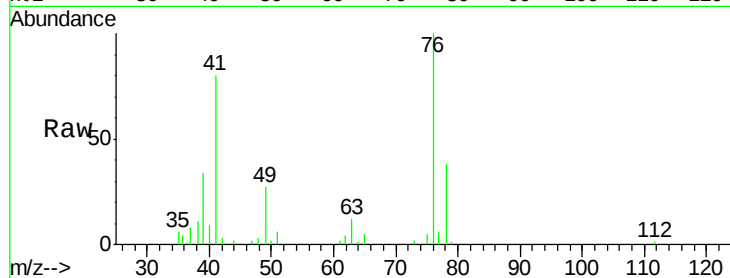
LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 76160

Ion Ratio Lower Upper

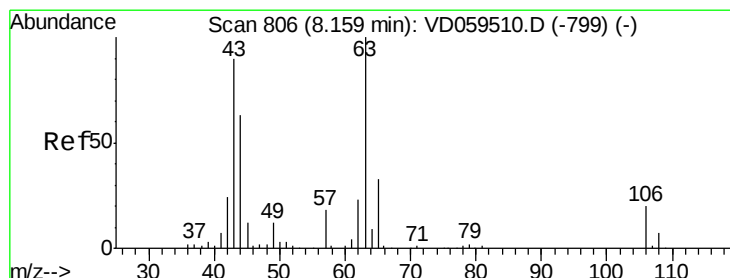
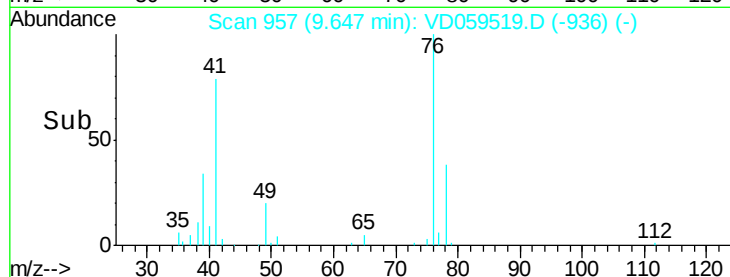
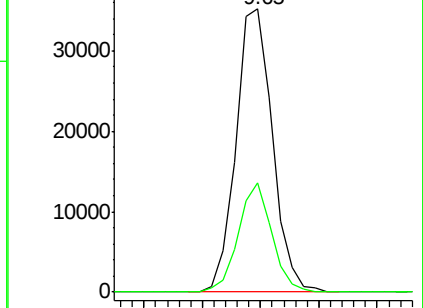
76 100

78 38.4 26.5 39.7



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 54.19 ug/l

RT: 8.16 min Scan# 806

Delta R.T. 0.00 min

Lab File: VD059519.D

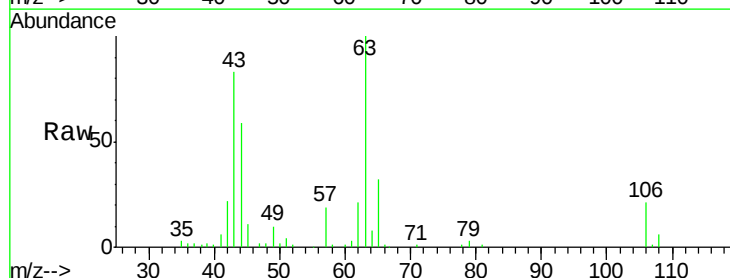
Acq: 2 Jul 2018 23:46

Tgt Ion: 63 Resp: 139570

Ion Ratio Lower Upper

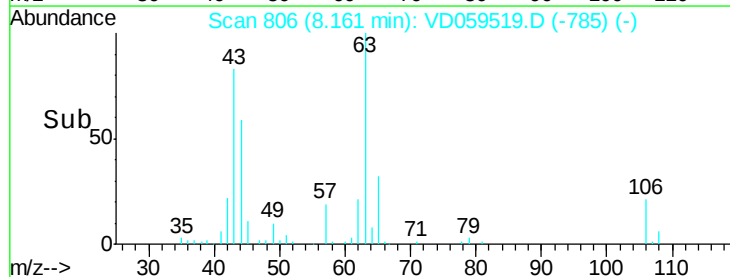
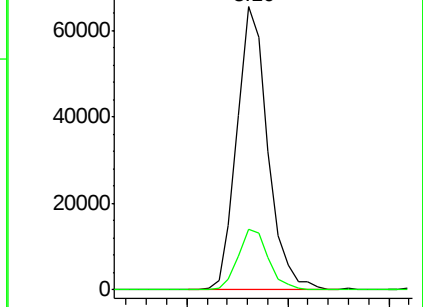
63 100

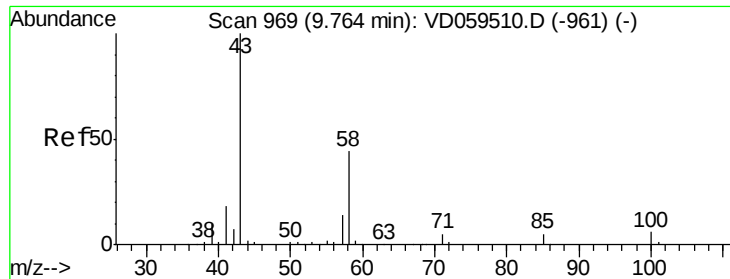
106 21.4 16.4 24.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

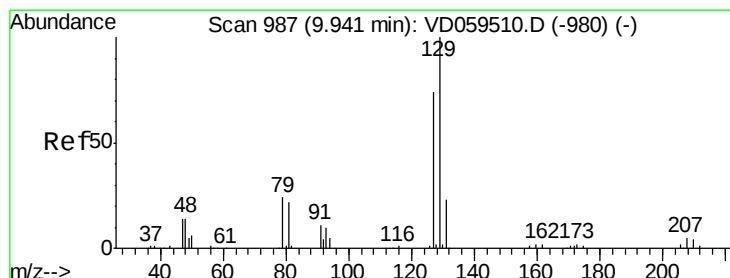
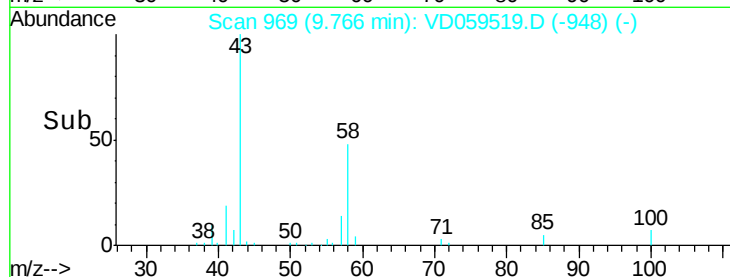
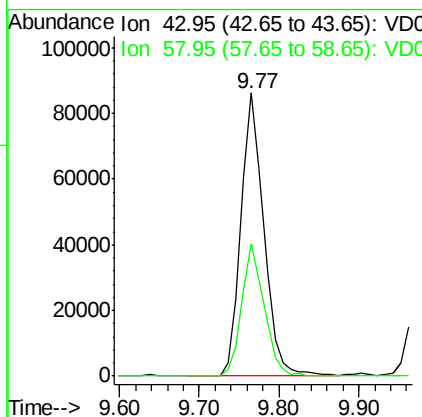
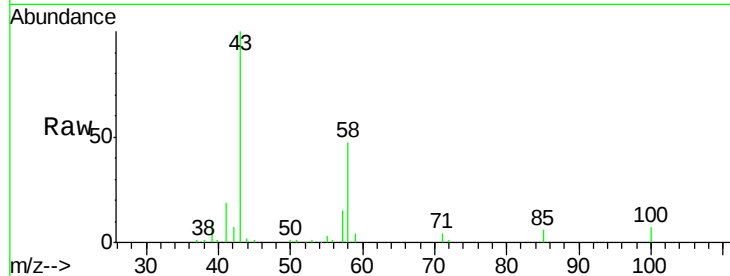




#59
2-Hexanone
Concen: 53.34 ug/l
RT: 9.77 min Scan# 969
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

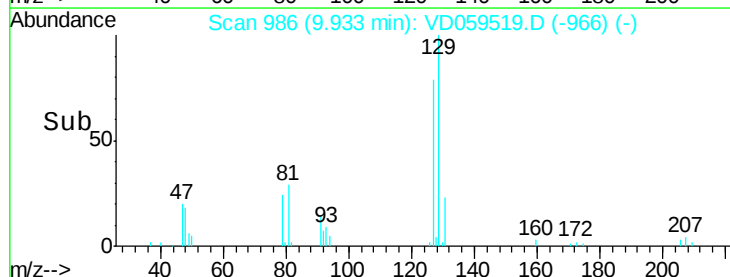
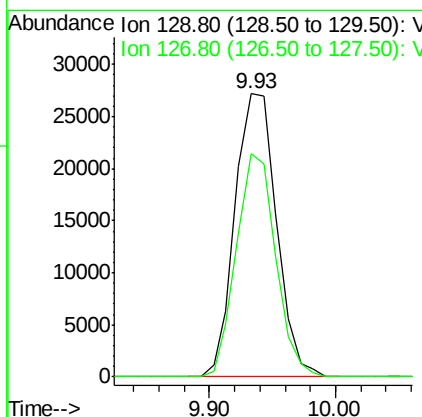
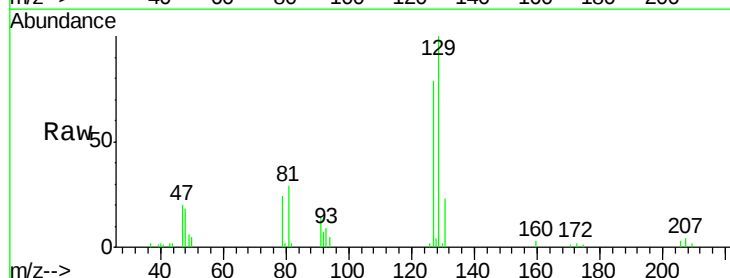
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

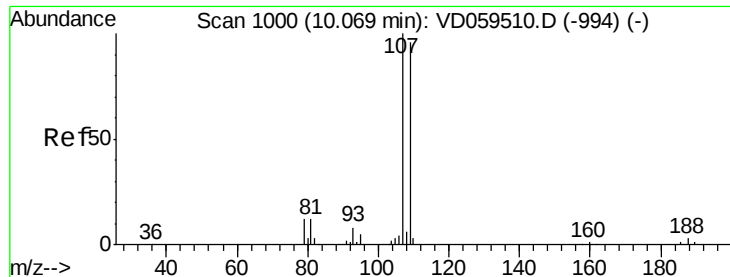
Tot Ion: 43 Resp: 172047
Ion Ratio Lower Upper
43 100
58 46.9 22.0 66.0



#60
Dibromochloromethane
Concen: 10.48 ug/l
RT: 9.93 min Scan# 986
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:129 Resp: 62147
Ion Ratio Lower Upper
129 100
127 79.0 37.2 111.6





#61

1,2-Dibromoethane

Concen: 9.95 ug/l

RT: 10.07 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

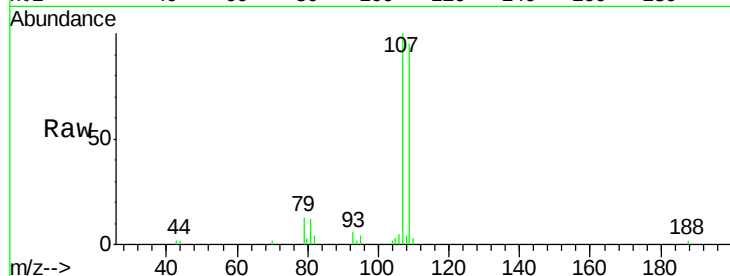
LOQ-SOIL-02-QT3-2018

Tot Ion:107 Resp: 46836

Ion Ratio Lower Upper

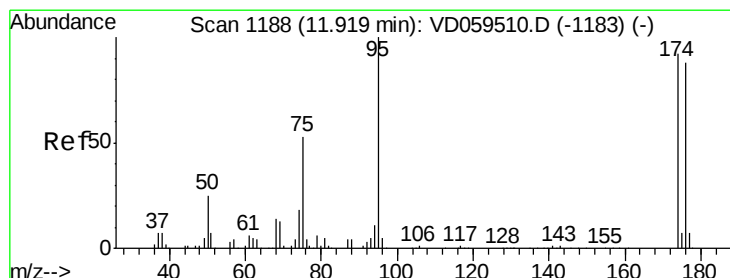
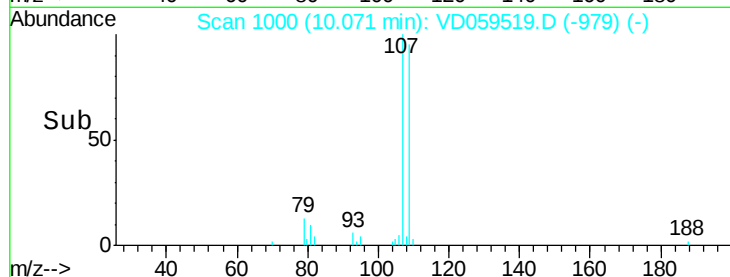
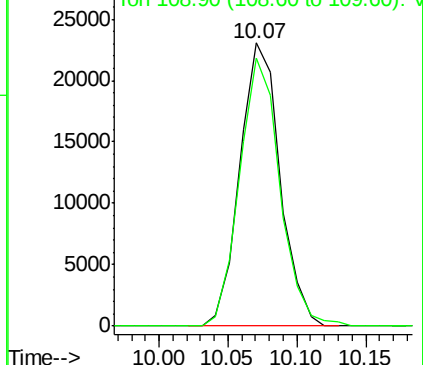
107 100

109 94.8 76.8 115.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 9.95 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

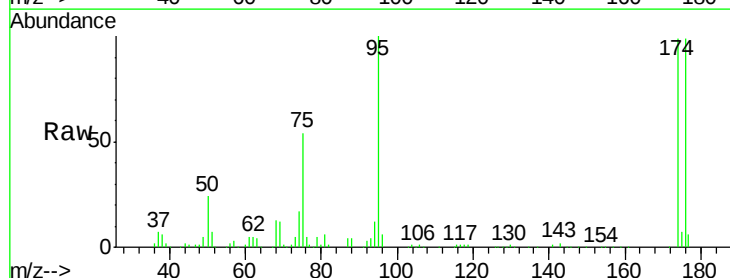
Tgt Ion: 95 Resp: 404199

Ion Ratio Lower Upper

95 100

174 99.4 0.0 183.0

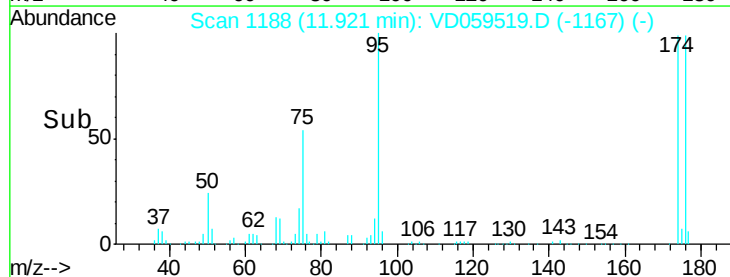
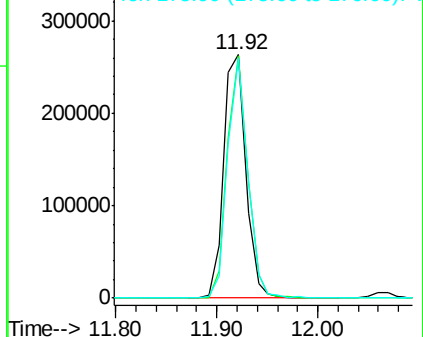
176 98.6 0.0 176.6

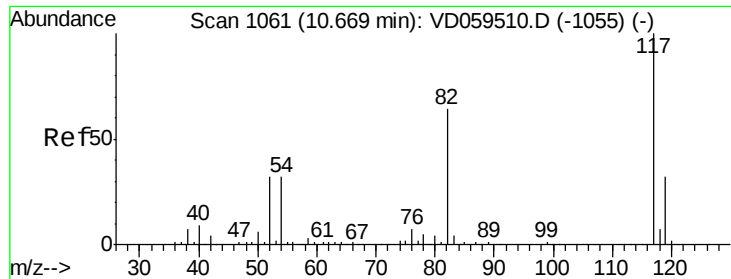


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.67 min Scan# 1061

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

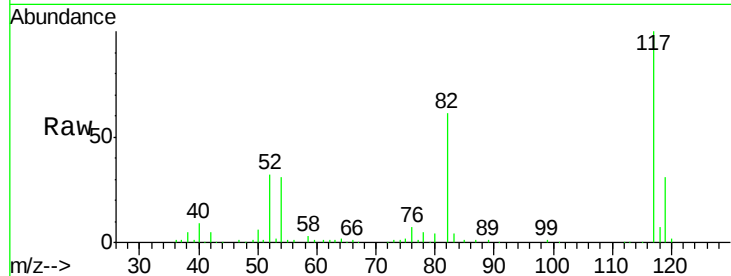
Tot Ion:117 Resp: 715414

Ion Ratio Lower Upper

117 100

82 61.0 51.1 76.7

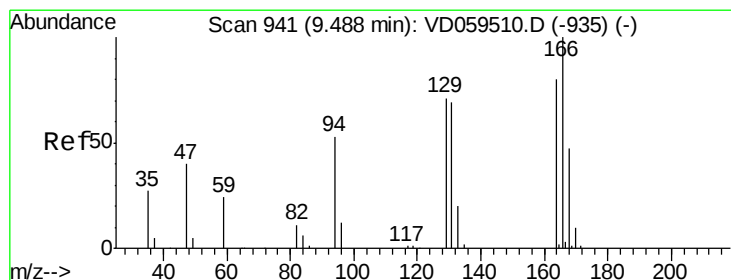
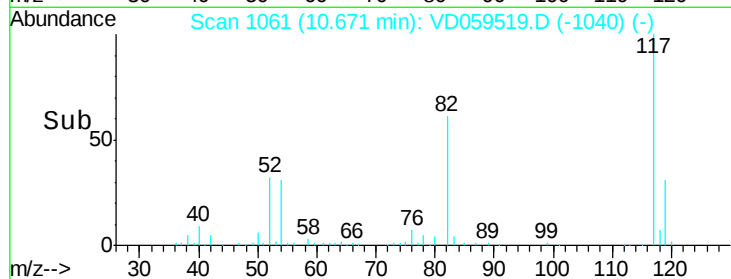
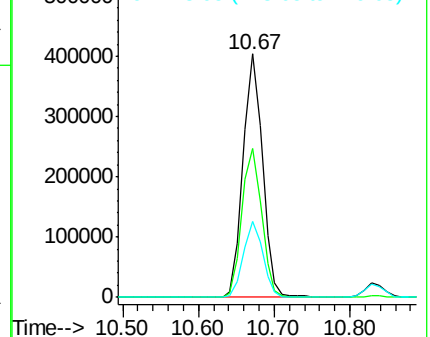
119 31.0 25.6 38.4



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 10.53 ug/l

RT: 9.49 min Scan# 941

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion:164 Resp: 64783

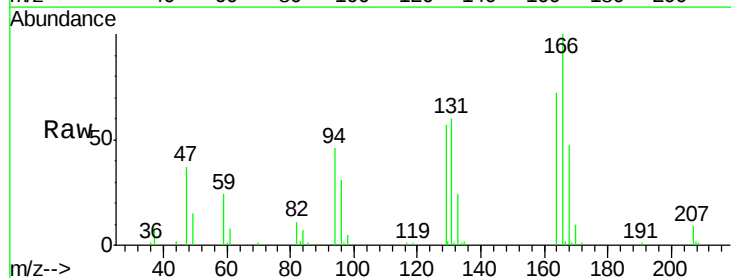
Ion Ratio Lower Upper

164 100

166 139.1 99.5 149.3

129 79.7 70.9 106.3

131 83.6 68.8 103.2

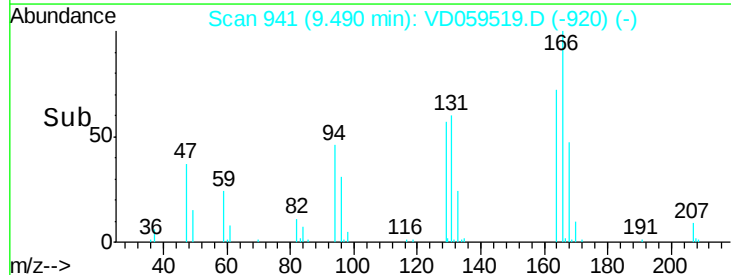
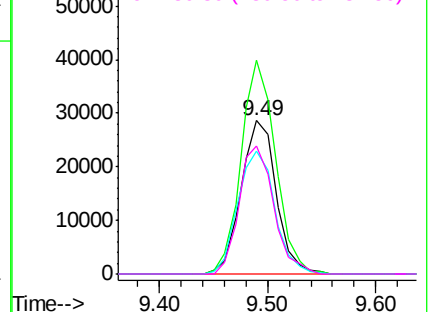


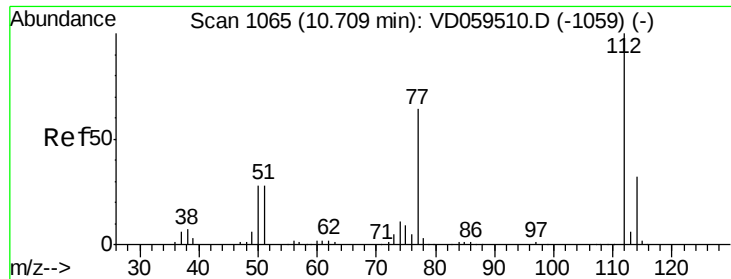
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

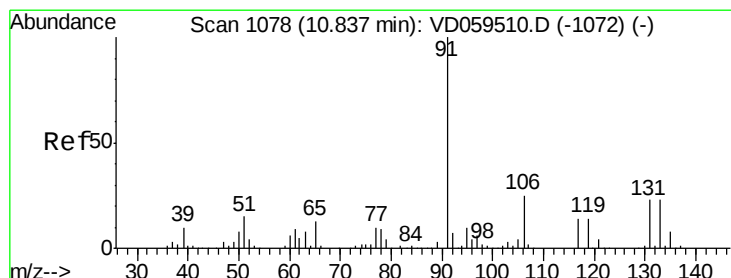
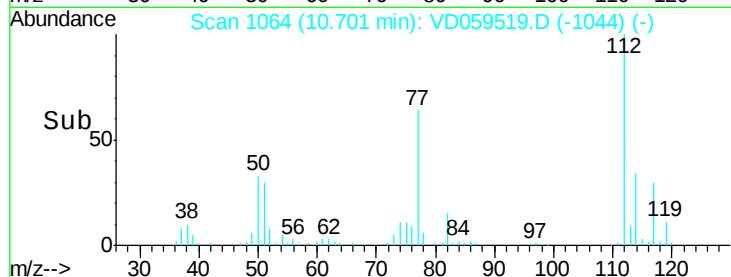
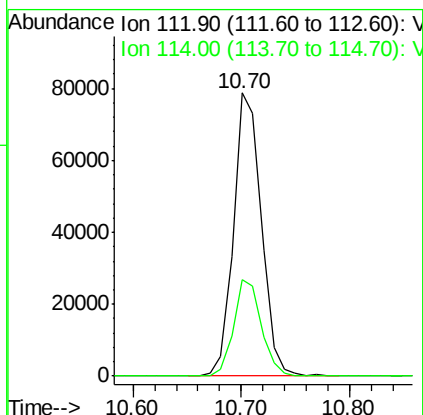
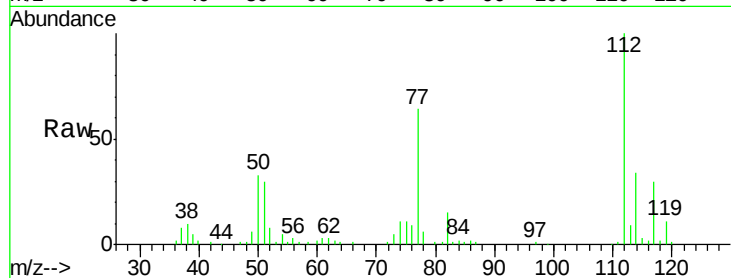




#65
Chlorobenzene
Concen: 10.19 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

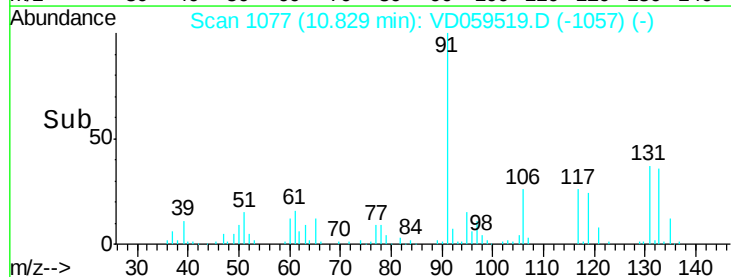
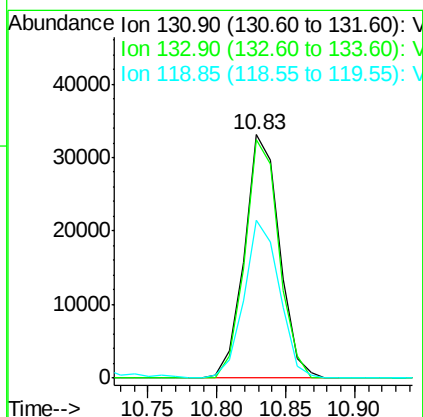
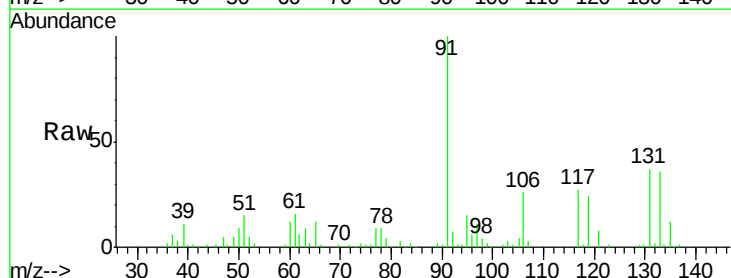
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

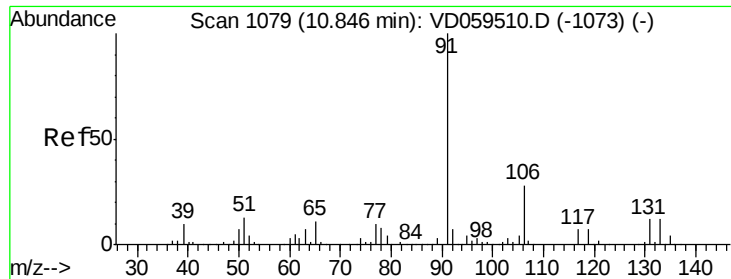
Tot Ion:112 Resp: 140387
Ion Ratio Lower Upper
112 100
114 34.0 25.4 38.2



#66
1,1,1,2-Tetrachloroethane
Concen: 10.48 ug/l
RT: 10.83 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:131 Resp: 58809
Ion Ratio Lower Upper
131 100
133 98.1 48.9 146.6
119 64.7 30.7 92.1

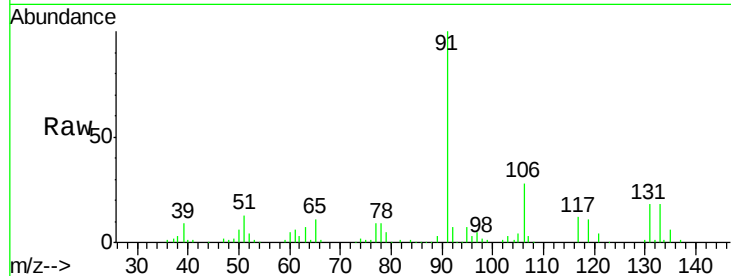




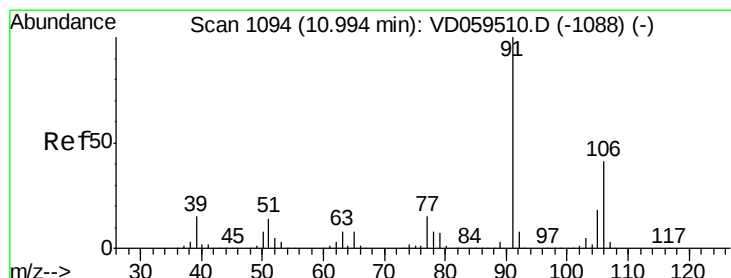
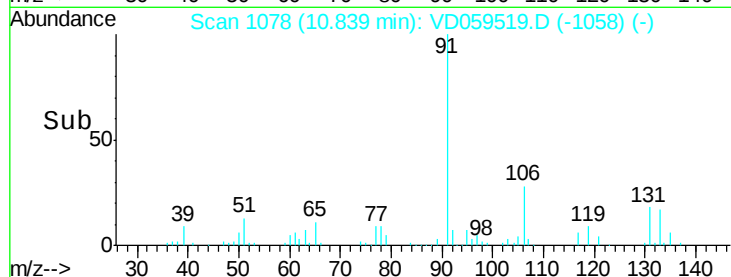
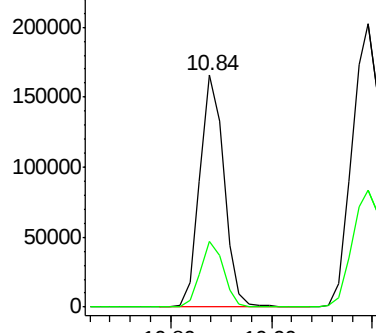
#67
Ethyl Benzene
Concen: 11.27 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 91 Resp: 275345
Ion Ratio Lower Upper
91 100
106 28.2 22.2 33.2

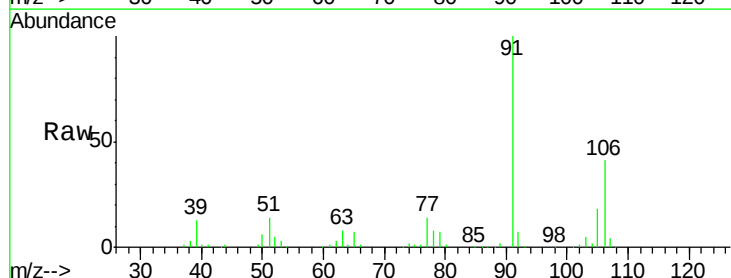


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

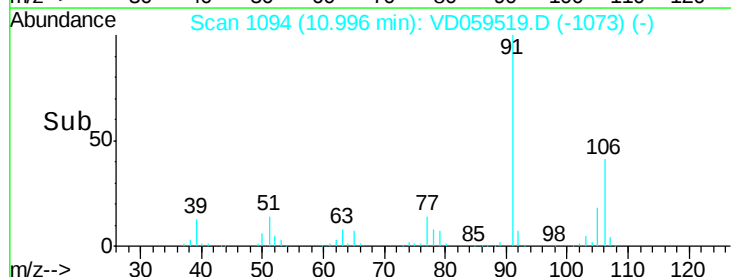
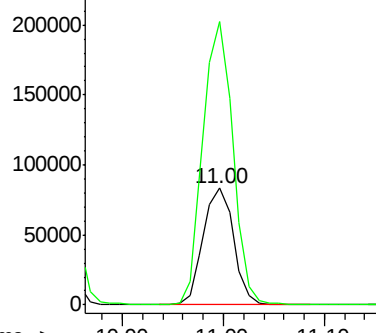


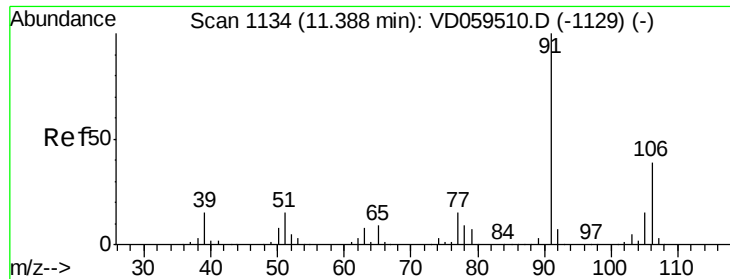
#68
m/p-Xylenes
Concen: 21.76 ug/l
RT: 11.00 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 106 Resp: 175419
Ion Ratio Lower Upper
106 100
91 242.1 194.1 291.1



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

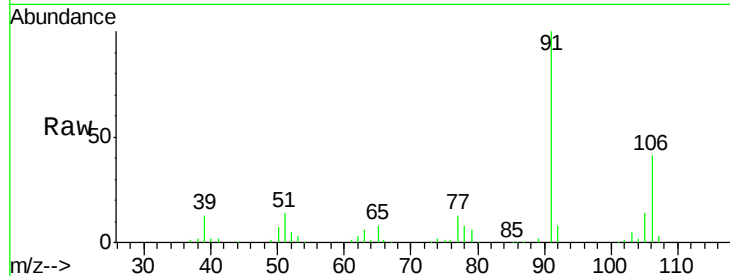




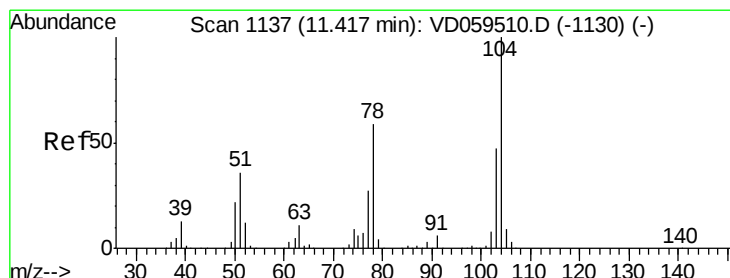
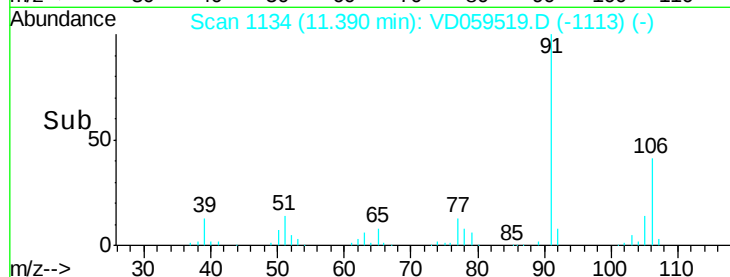
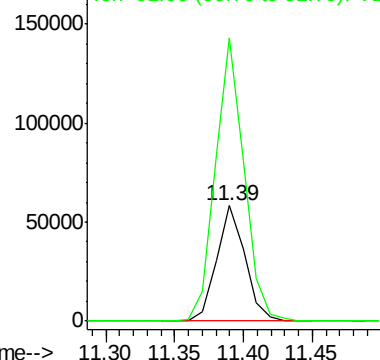
#69
o-Xylene
Concen: 10.77 ug/l
RT: 11.39 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:106 Resp: 83656
Ion Ratio Lower Upper
106 100
91 246.0 127.0 381.0

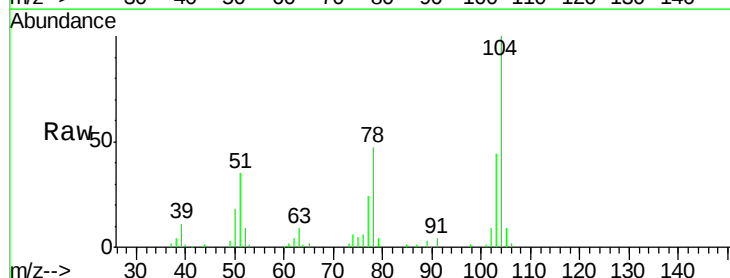


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

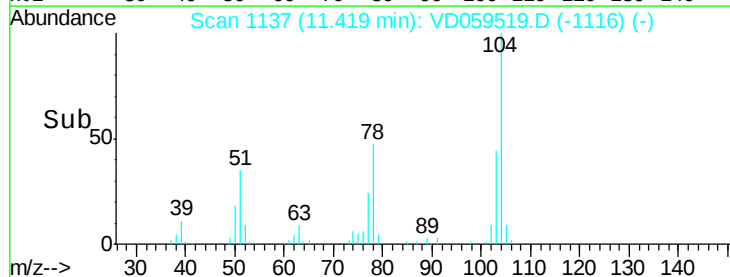
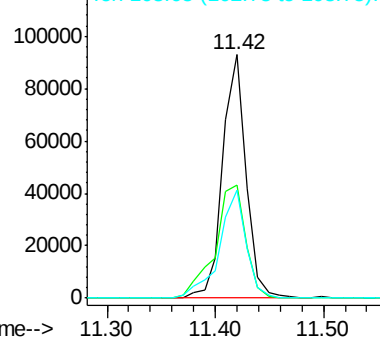


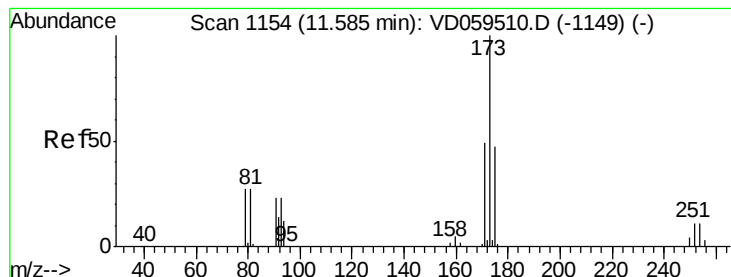
#70
Styrene
Concen: 10.71 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:104 Resp: 139470
Ion Ratio Lower Upper
104 100
78 46.7 47.6 71.4#
103 44.4 37.6 56.4



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 8.40 ug/l

RT: 11.59 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

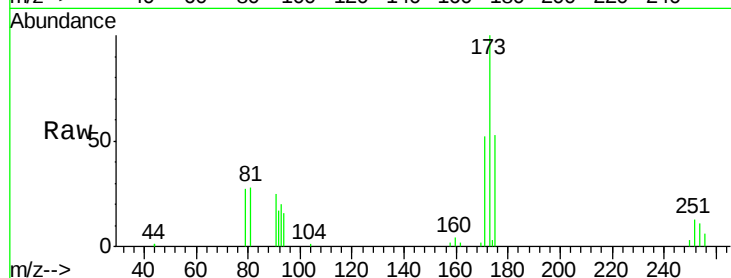
Tot Ion:173 Resp: 35564

Ion Ratio Lower Upper

173 100

175 52.6 23.3 69.8

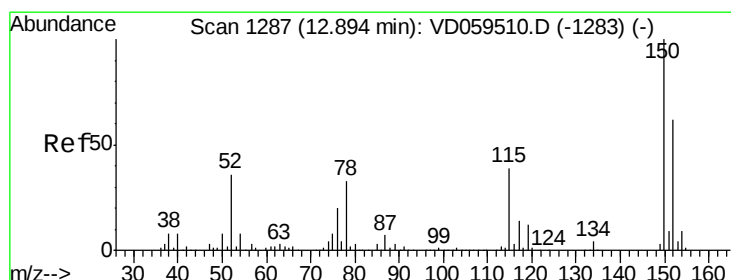
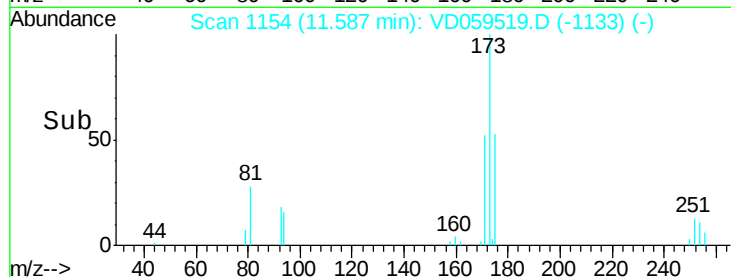
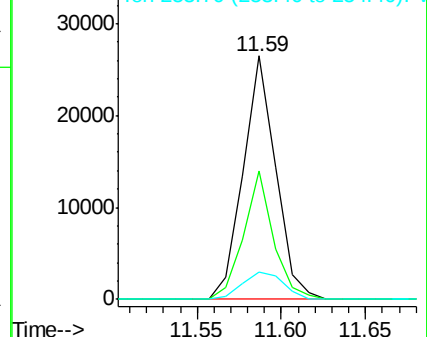
254 11.3 9.0 13.6



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.90 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

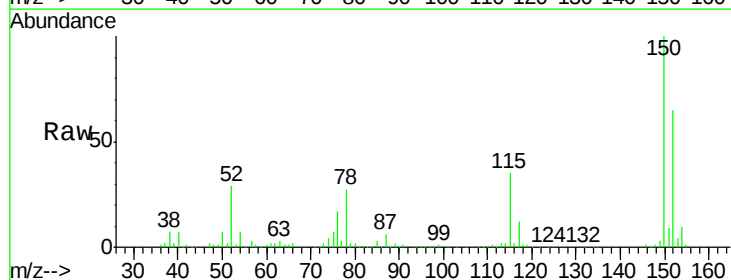
Tgt Ion:152 Resp: 370956

Ion Ratio Lower Upper

152 100

115 54.6 31.3 93.9

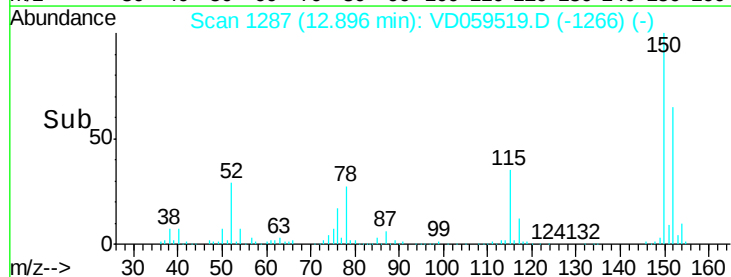
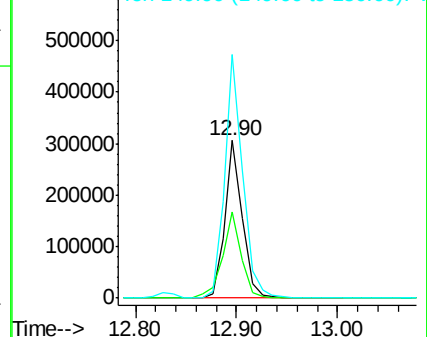
150 154.4 0.0 323.6

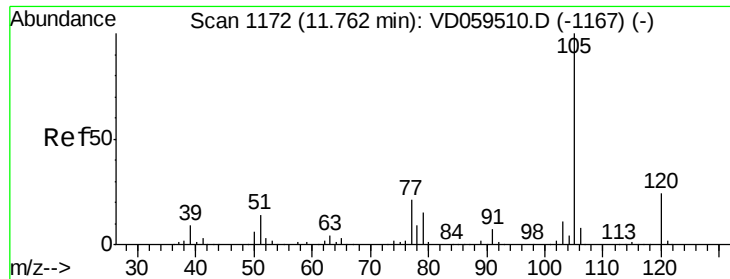


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 10.69 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

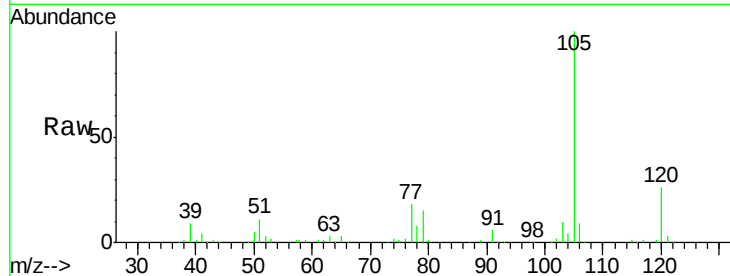
LOQ-SOIL-02-QT3-2018

Tot Ion:105 Resp: 236934

Ion Ratio Lower Upper

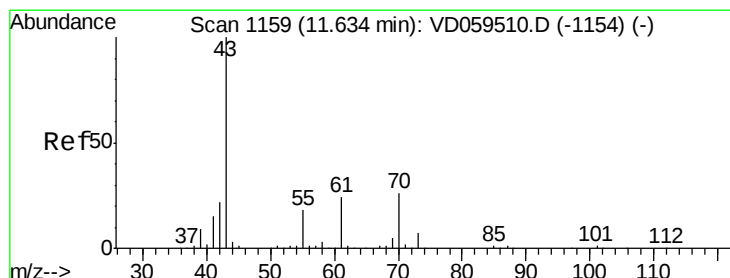
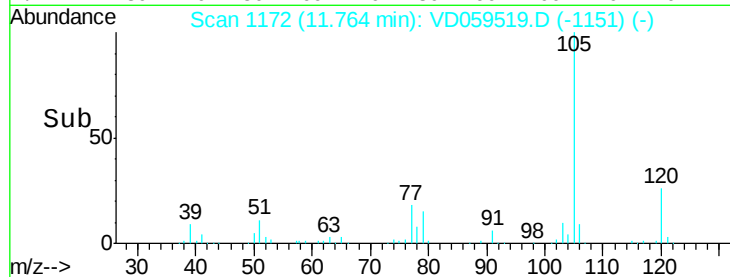
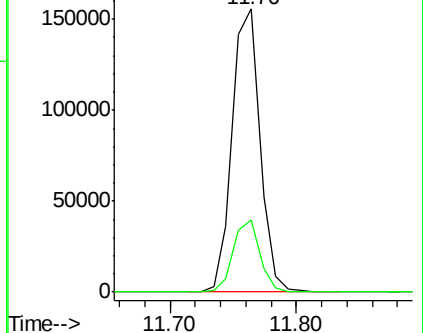
105 100

120 25.6 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 9.86 ug/l

RT: 11.64 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion: 43 Resp: 92232

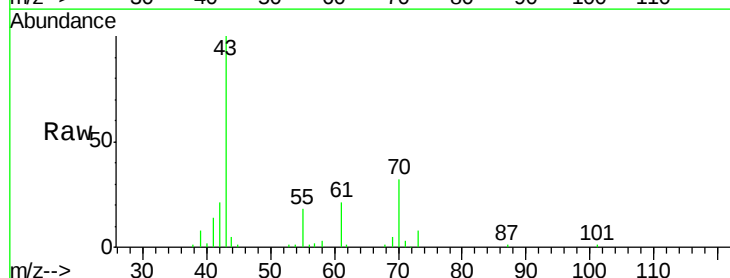
Ion Ratio Lower Upper

43 100

70 32.1 20.6 31.0#

55 18.3 14.4 21.6

61 21.5 19.2 28.8

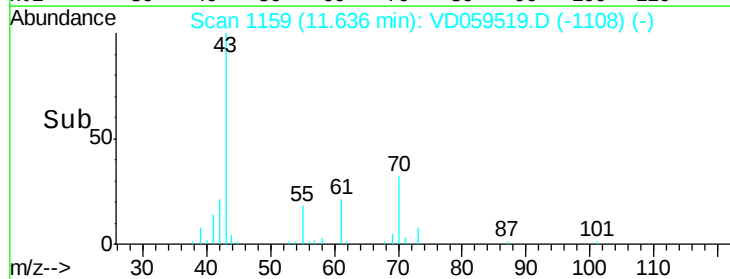
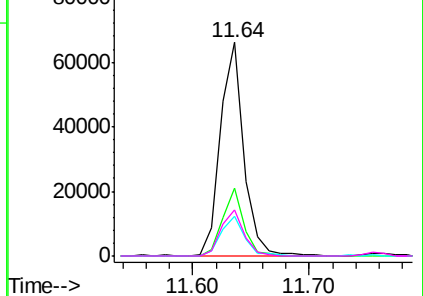


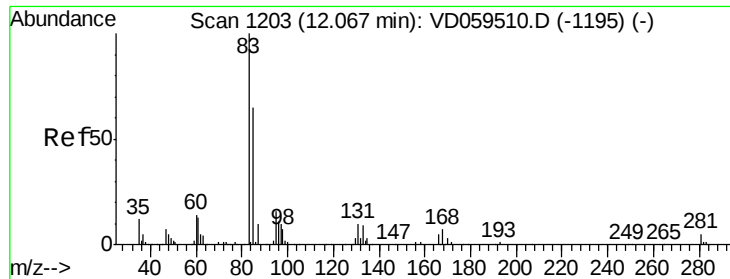
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 10.24 ug/l

RT: 12.06 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

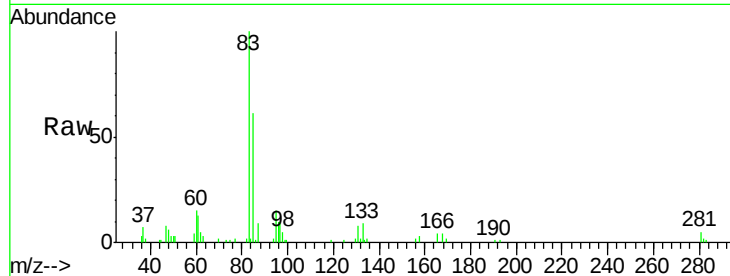
Tot Ion: 83 Resp: 58808

Ion Ratio Lower Upper

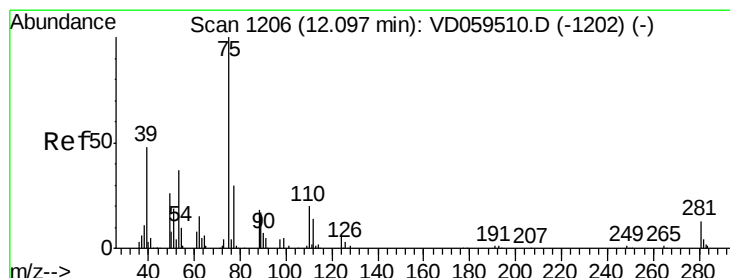
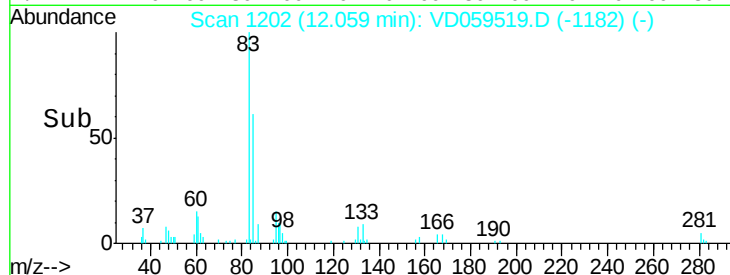
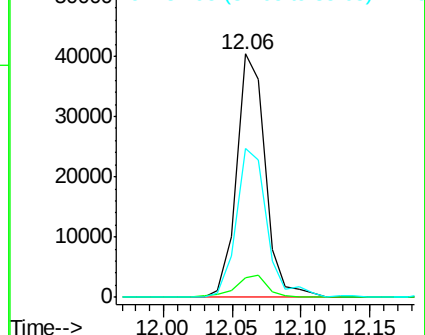
83 100

131 7.9 5.0 15.0

85 60.9 32.3 96.8



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 9.75 ug/l

RT: 12.10 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VD059519.D

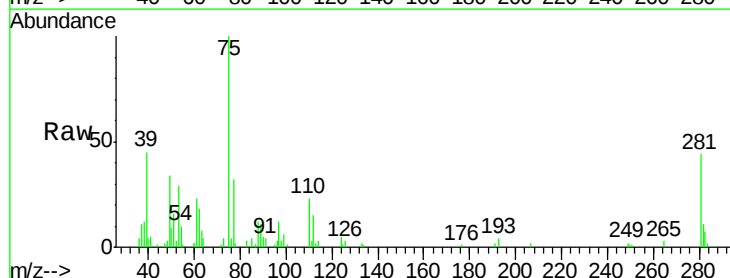
Acq: 2 Jul 2018 23:46

Tgt Ion: 75 Resp: 58364

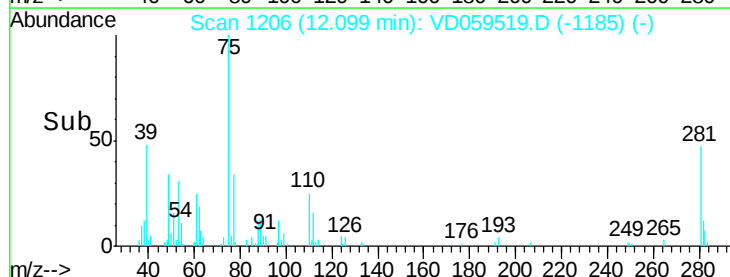
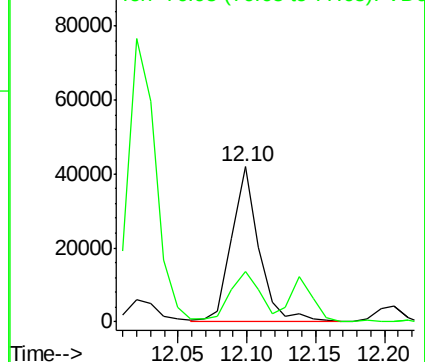
Ion Ratio Lower Upper

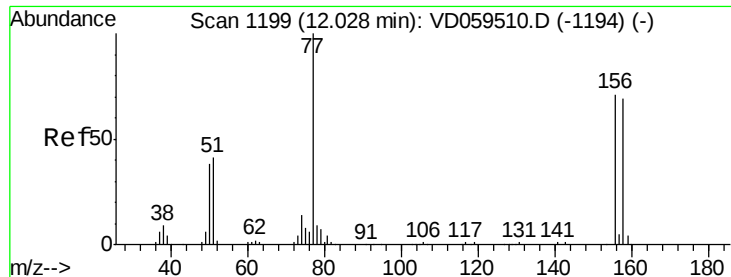
75 100

77 32.3 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 10.22 ug/l

RT: 12.03 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

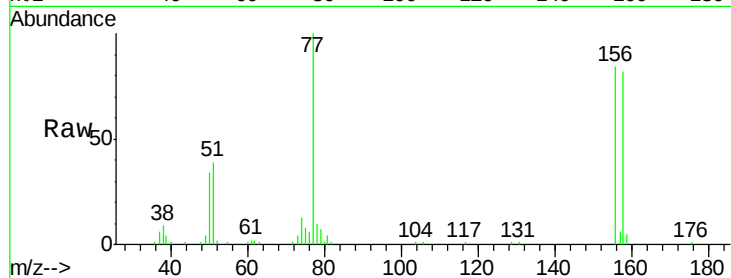
Tot Ion:156 Resp: 71094

Ion Ratio Lower Upper

156 100

77 118.6 70.0 210.0

158 96.8 48.3 144.9

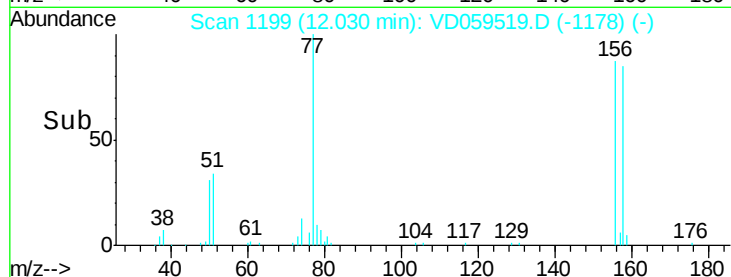


Abundance Ion 155.90 (155.60 to 156.60): V

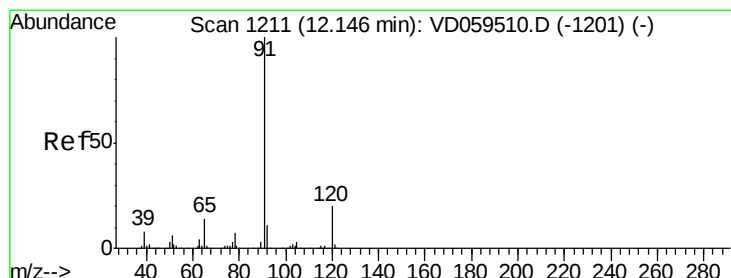
Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V

Time-->



Time-->



#78

n-propylbenzene

Concen: 10.49 ug/l

RT: 12.14 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059519.D

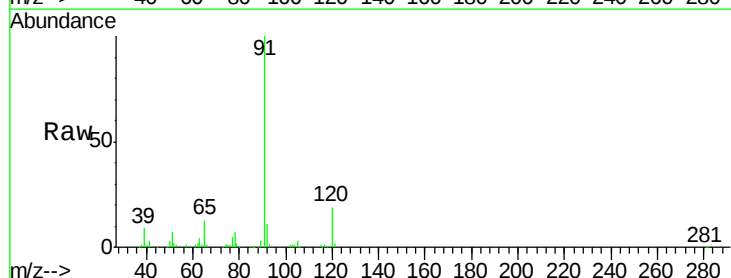
Acq: 2 Jul 2018 23:46

Tgt Ion: 91 Resp: 311461

Ion Ratio Lower Upper

91 100

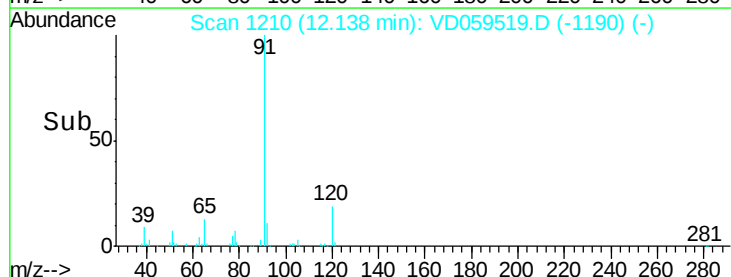
120 19.3 10.0 29.8



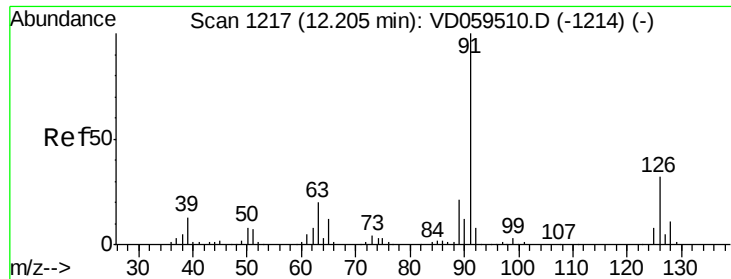
Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

Time-->



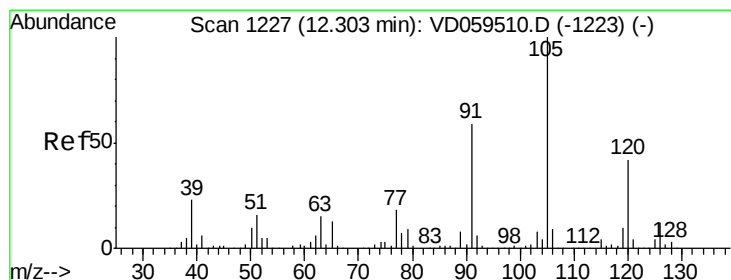
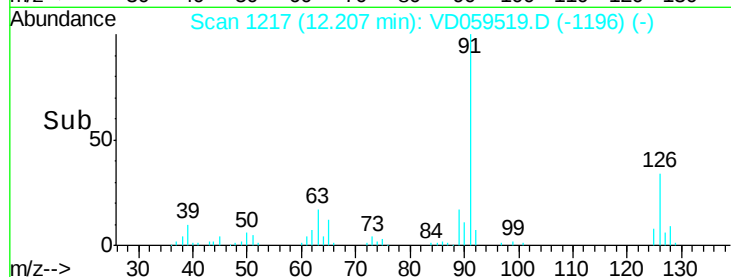
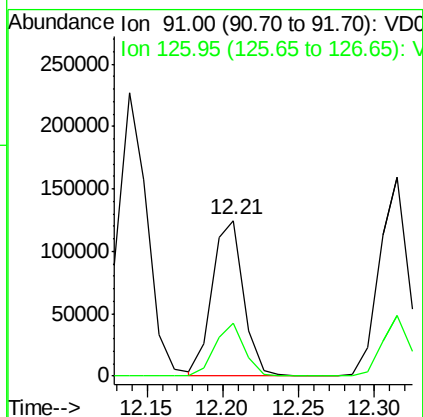
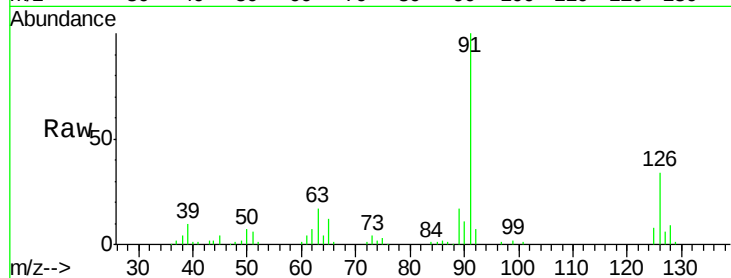
Time-->



#79
 2-Chlorotoluene
 Concen: 10.24 ug/l
 RT: 12.21 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

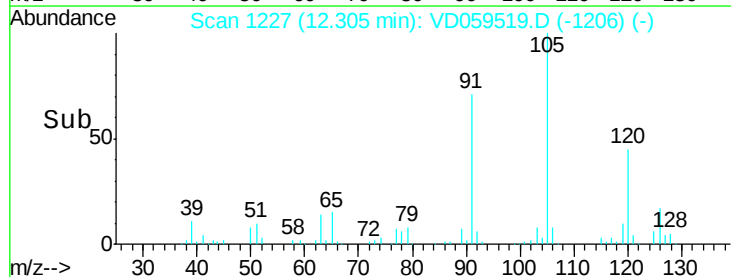
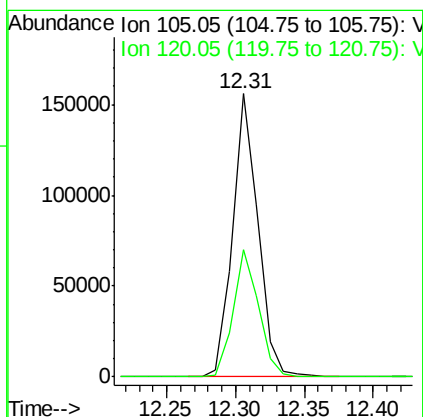
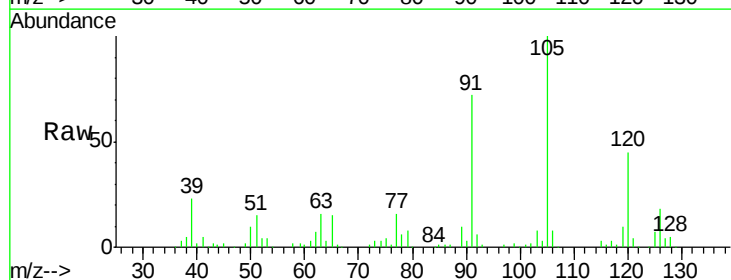
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

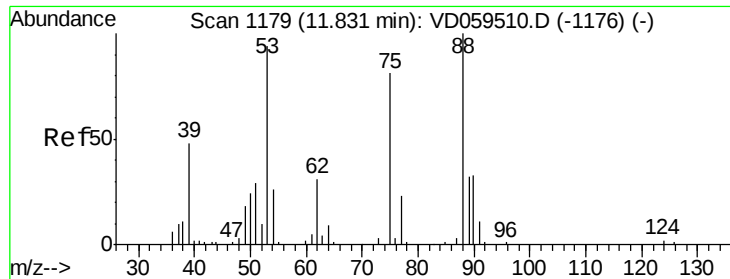
Tot Ion: 91 Resp: 178883
 Ion Ratio Lower Upper
 91 100
 126 34.2 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 11.03 ug/l
 RT: 12.31 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 105 Resp: 198824
 Ion Ratio Lower Upper
 105 100
 120 44.8 20.8 62.4

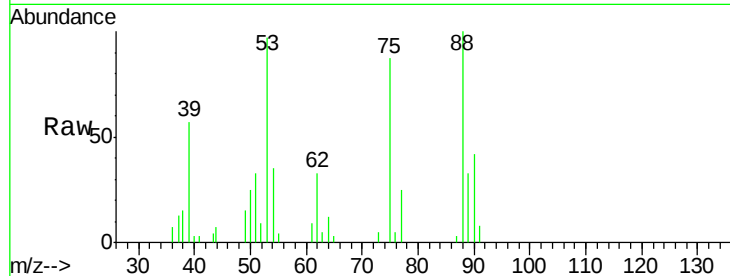




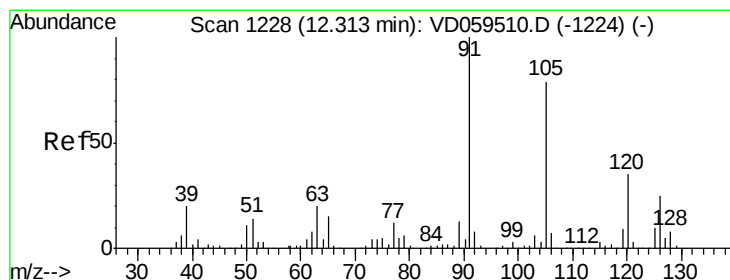
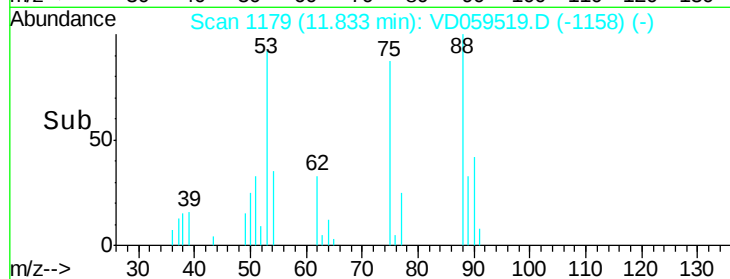
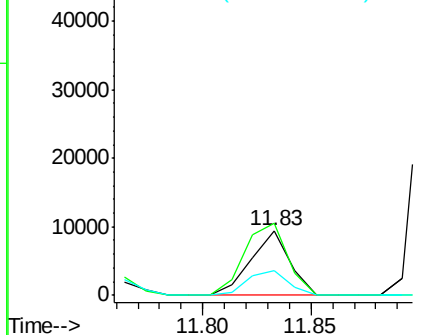
#81
trans-1,4-Dichloro-2-butene
Concen: 9.15 ug/l
RT: 11.83 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 75 Resp: 11830
Ion Ratio Lower Upper
75 100
53 111.3 92.6 139.0
89 37.9 31.5 47.3

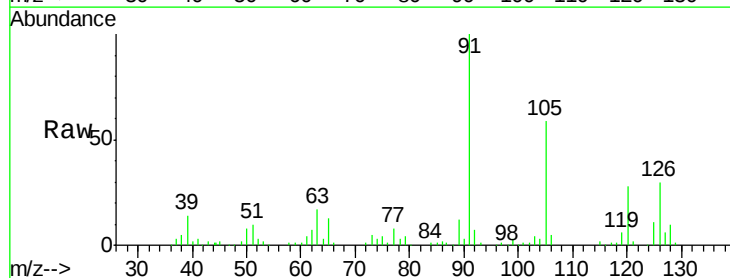


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

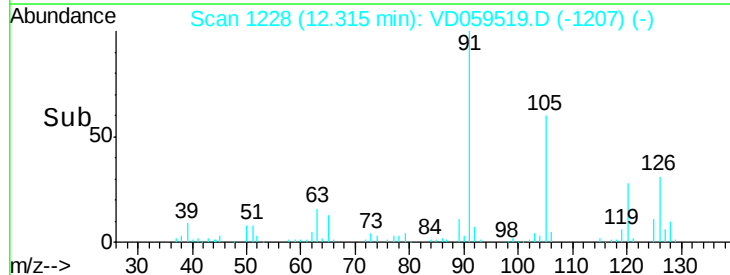
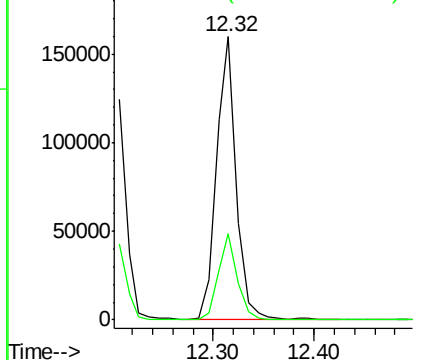


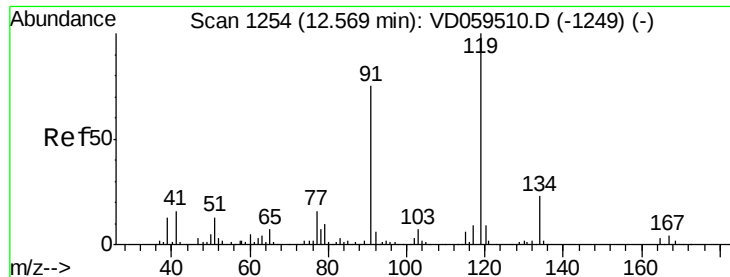
#82
4-Chlorotoluene
Concen: 11.03 ug/l
RT: 12.32 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 91 Resp: 218254
Ion Ratio Lower Upper
91 100
126 30.5 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

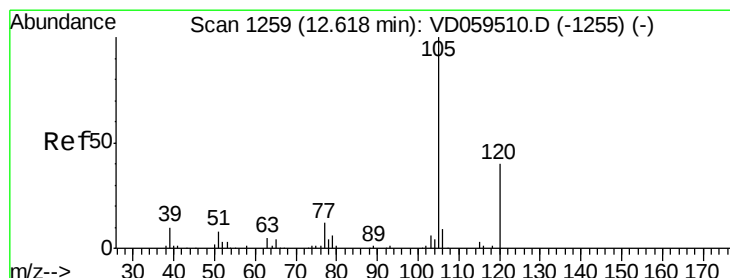
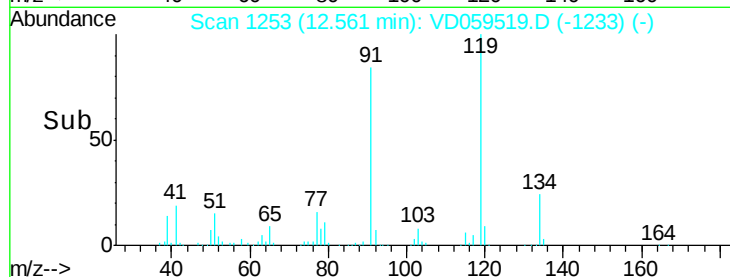
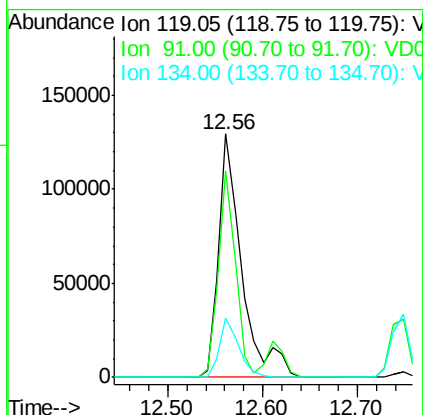
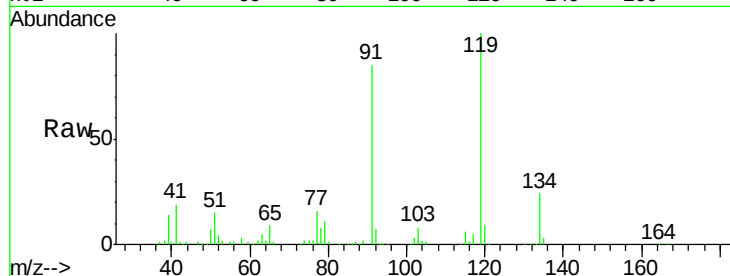




#83
 tert-Butylbenzene
 Concen: 10.72 ug/l
 RT: 12.56 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

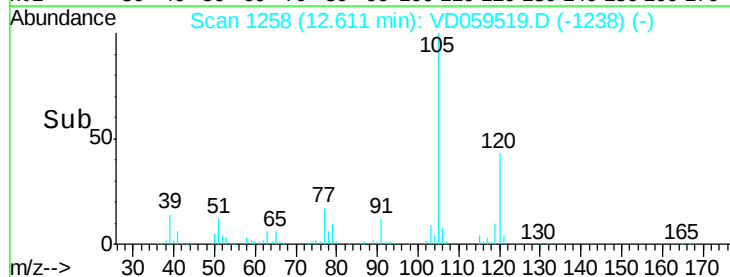
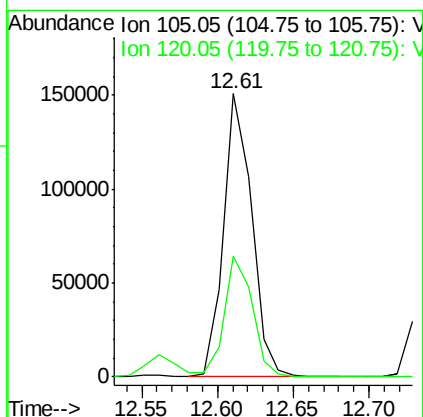
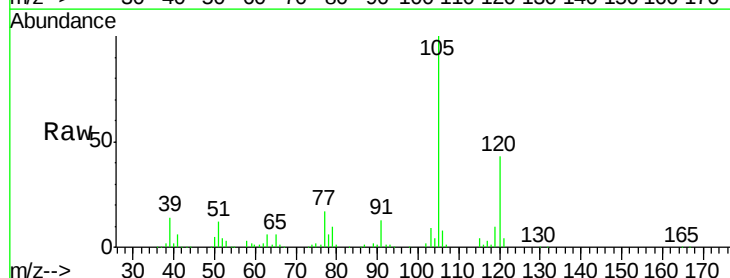
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

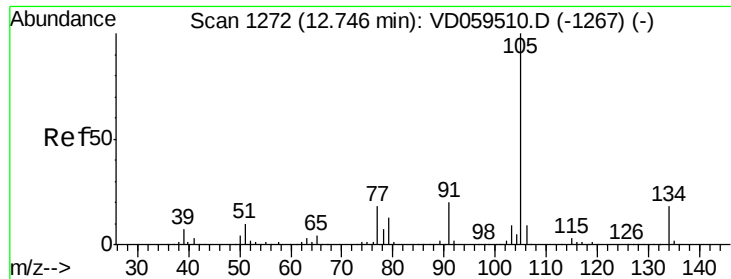
Tot Ion:119 Resp: 219829
 Ion Ratio Lower Upper
 119 100
 91 84.9 37.8 113.3
 134 24.4 11.5 34.4



#84
 1,2,4-Trimethylbenzene
 Concen: 10.12 ug/l
 RT: 12.61 min Scan# 1258
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:105 Resp: 195845
 Ion Ratio Lower Upper
 105 100
 120 42.7 21.1 63.3

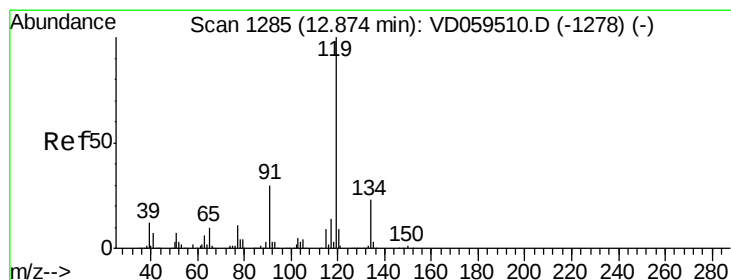
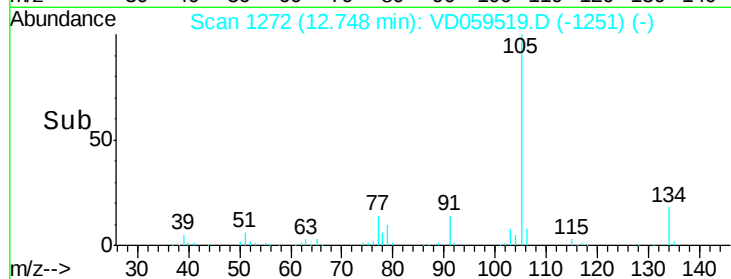
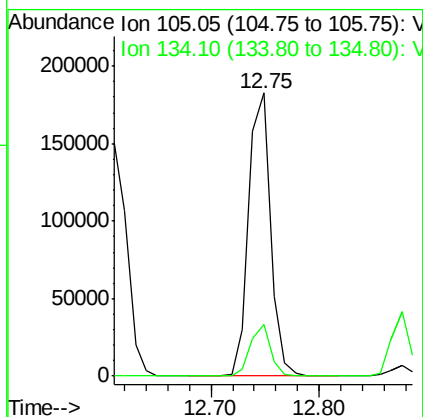
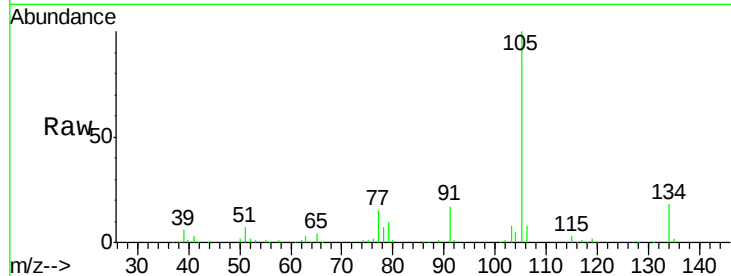




#85
 sec-Butylbenzene
 Concen: 10.95 ug/l
 RT: 12.75 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

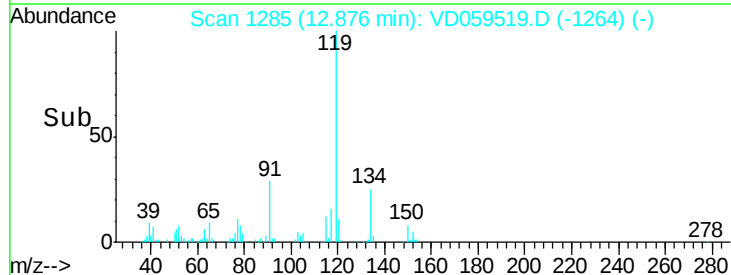
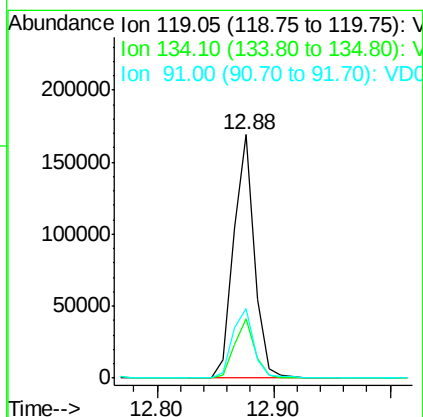
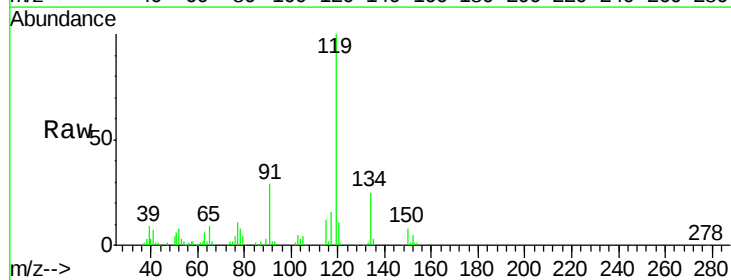
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

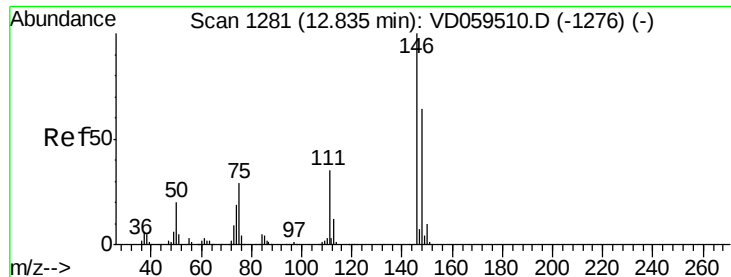
Tot Ion:105 Resp: 257513
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.8 26.4



#86
 p-Isopropyltoluene
 Concen: 10.54 ug/l
 RT: 12.88 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:119 Resp: 208071
 Ion Ratio Lower Upper
 119 100
 134 24.6 11.6 34.8
 91 28.7 15.3 45.8

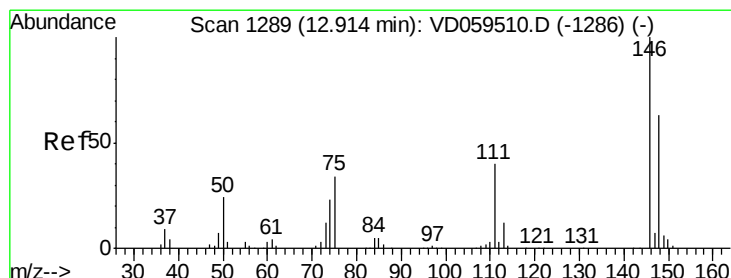
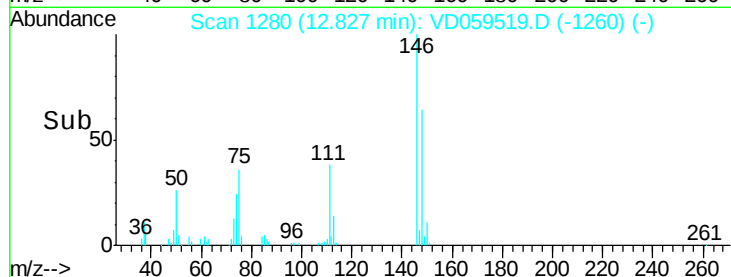
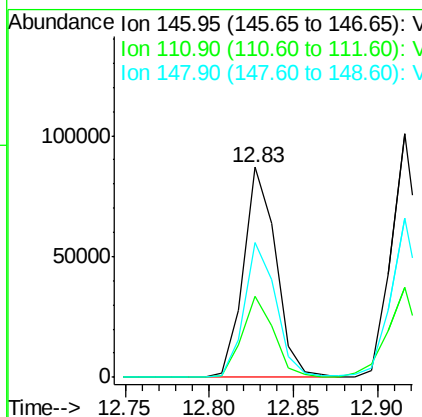
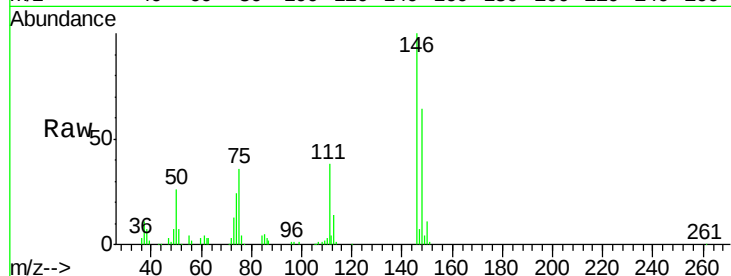




#87
 1,3-Dichlorobenzene
 Concen: 9.77 ug/l
 RT: 12.83 min Scan# 1280
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

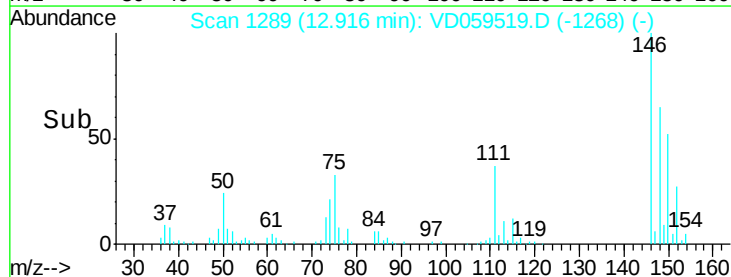
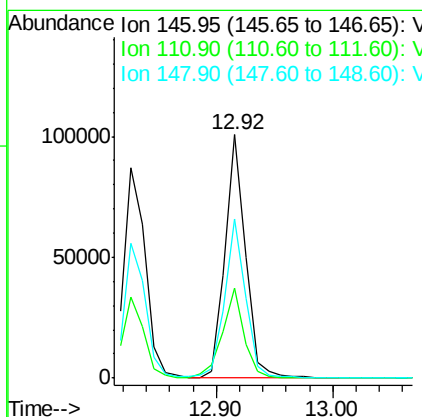
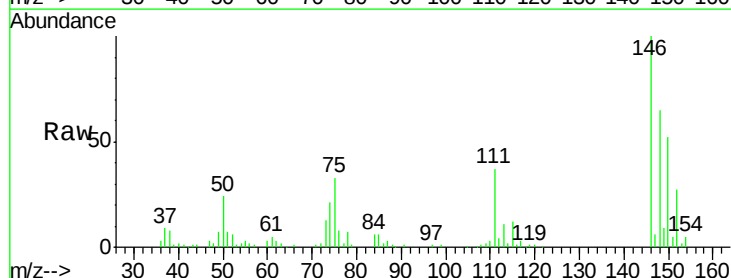
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

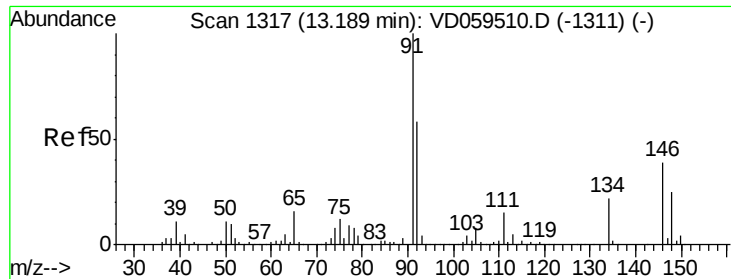
Tot Ion:146 Resp: 116394
 Ion Ratio Lower Upper
 146 100
 111 38.4 17.6 52.9
 148 63.9 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 10.54 ug/l
 RT: 12.92 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:146 Resp: 123220
 Ion Ratio Lower Upper
 146 100
 111 37.2 20.0 59.9
 148 65.3 31.7 95.1

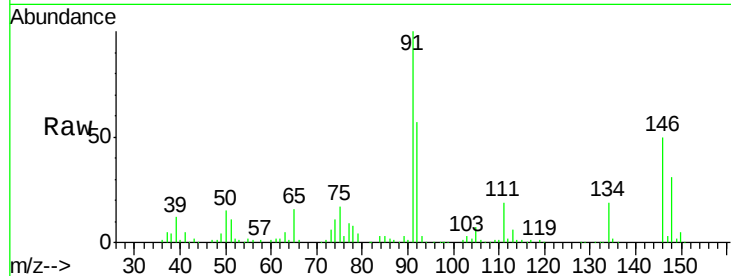




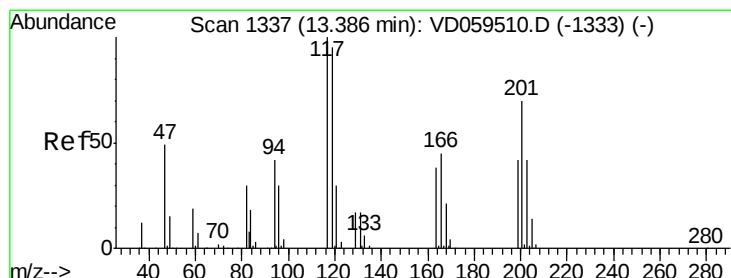
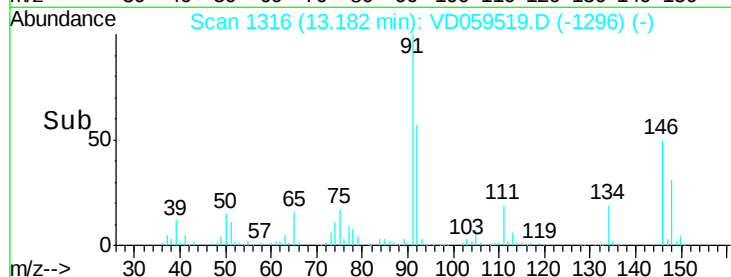
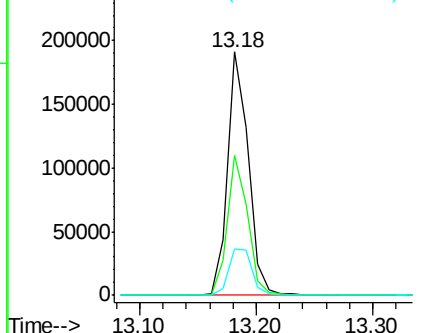
#89
n-Butylbenzene
Concen: 11.82 ug/l
RT: 13.18 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 91 Resp: 237897
Ion Ratio Lower Upper
91 100
92 57.4 28.9 86.7
134 19.0 11.3 33.8

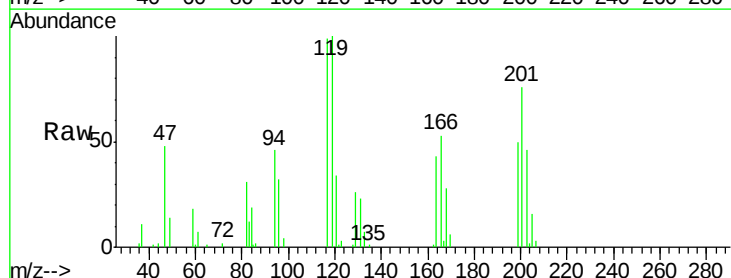


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

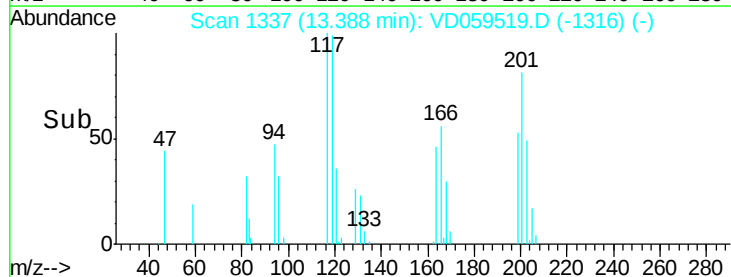
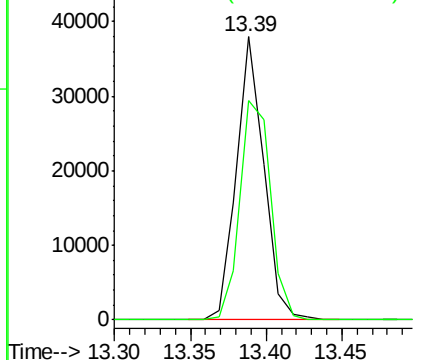


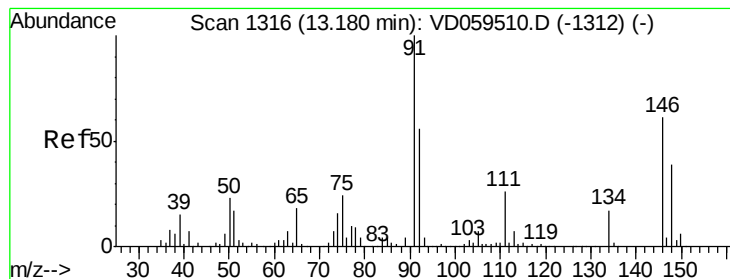
#90
Hexachloroethane
Concen: 9.29 ug/l
RT: 13.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 117 Resp: 47478
Ion Ratio Lower Upper
117 100
201 77.4 35.2 105.6



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 11.34 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

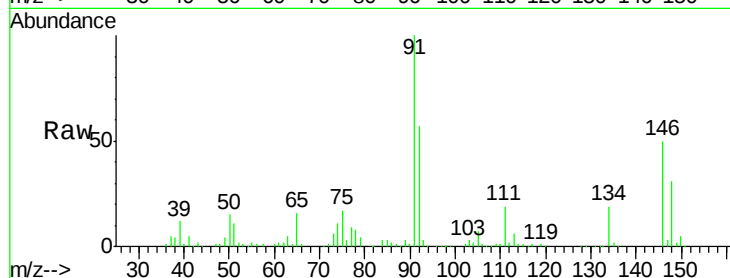
Tot Ion:146 Resp: 113609

Ion Ratio Lower Upper

146 100

111 39.0 21.3 63.9

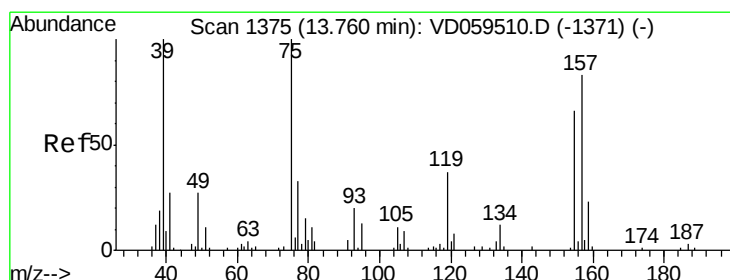
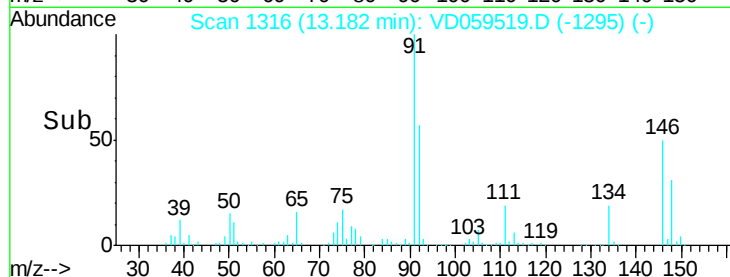
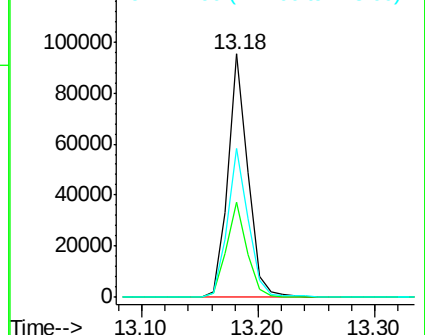
148 61.3 32.4 97.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.74 ug/l

RT: 13.76 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

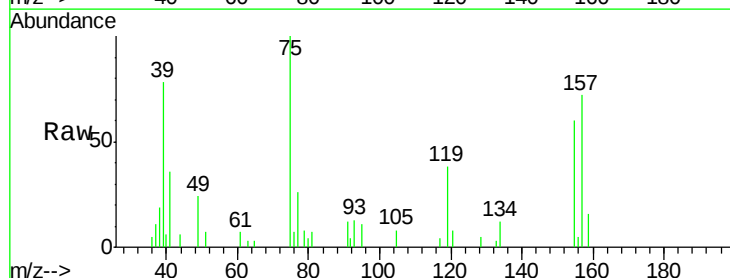
Tgt Ion: 75 Resp: 9648

Ion Ratio Lower Upper

75 100

155 59.9 32.8 98.4

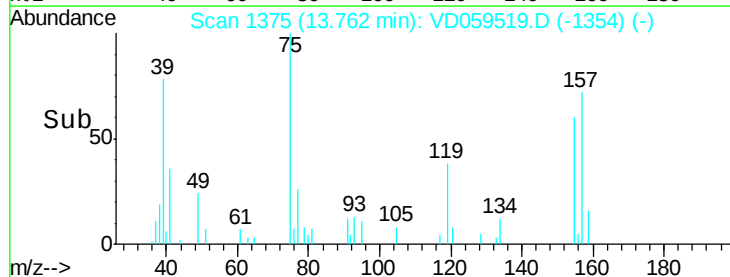
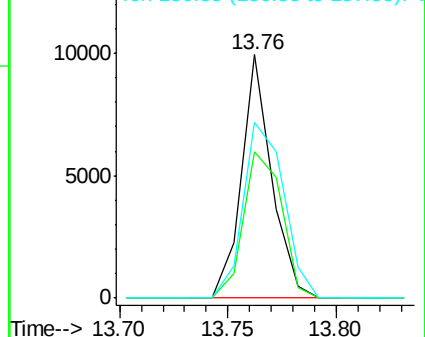
157 72.3 41.5 124.5

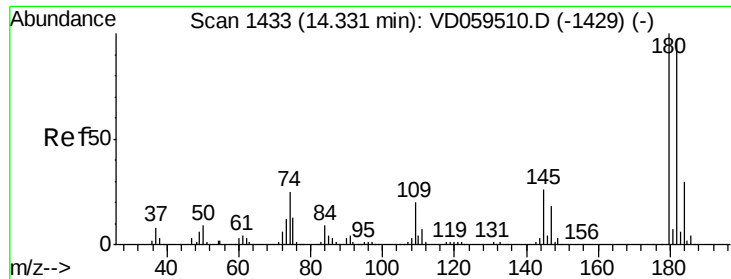


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

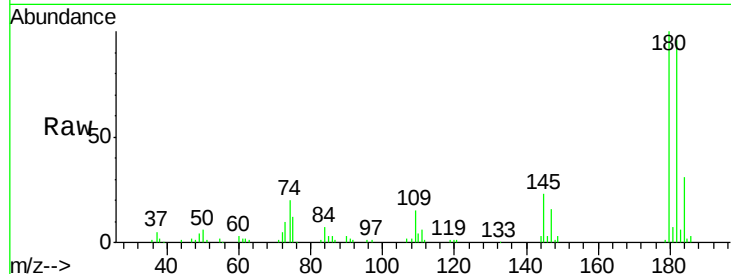




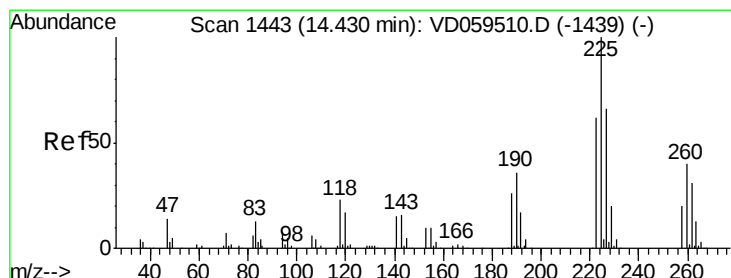
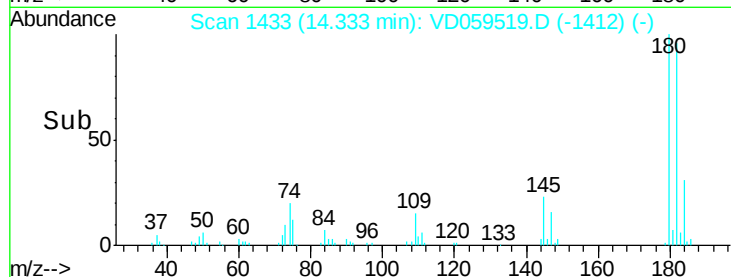
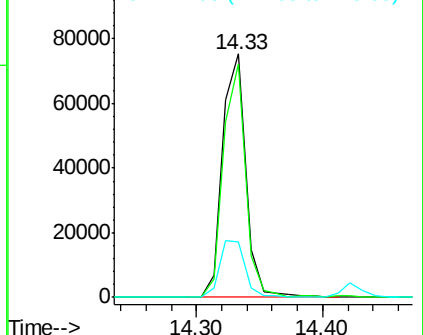
#93
 1,2,4-Trichlorobenzene
 Concen: 10.85 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion:180 Resp: 96408
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.7 146.1
 145 22.9 13.2 39.6

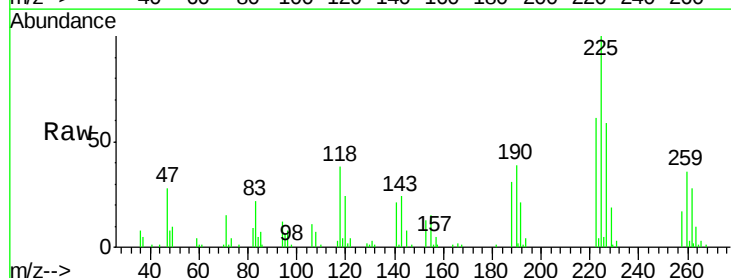


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

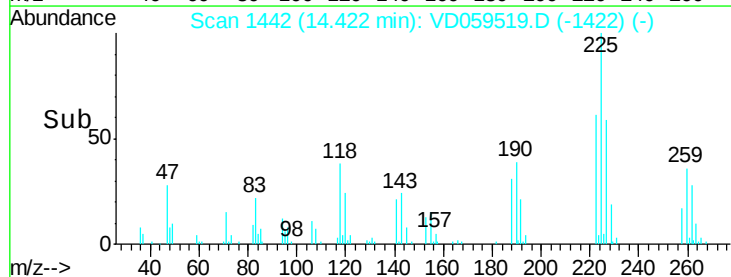
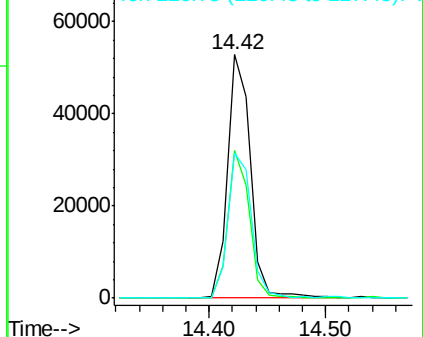


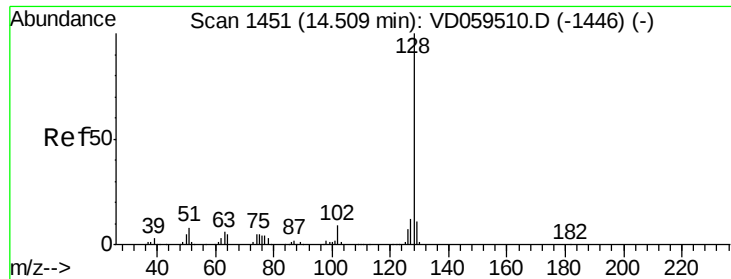
#94
 Hexachlorobutadiene
 Concen: 10.58 ug/l
 RT: 14.42 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:225 Resp: 71850
 Ion Ratio Lower Upper
 225 100
 223 60.6 31.0 93.0
 227 59.4 33.1 99.5



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 10.16 ug/l

RT: 14.50 min Scan# 1450

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

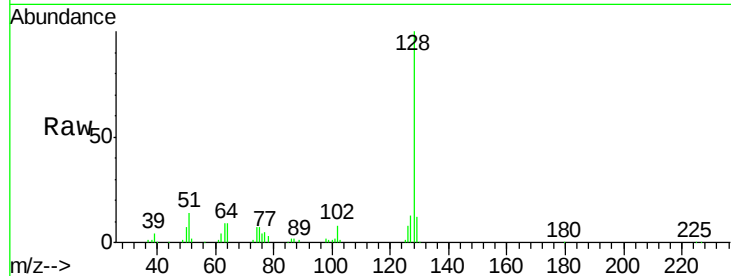
Tot Ion:128 Resp: 134193

Ion Ratio Lower Upper

128 100

127 13.1 9.8 14.8

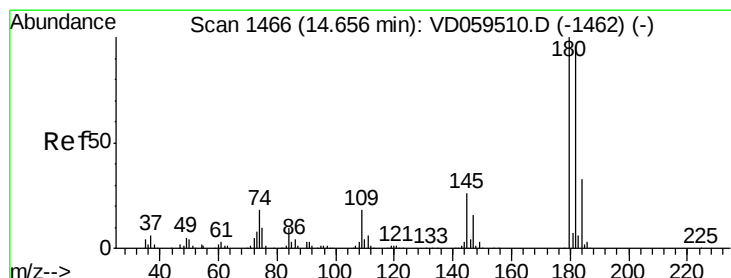
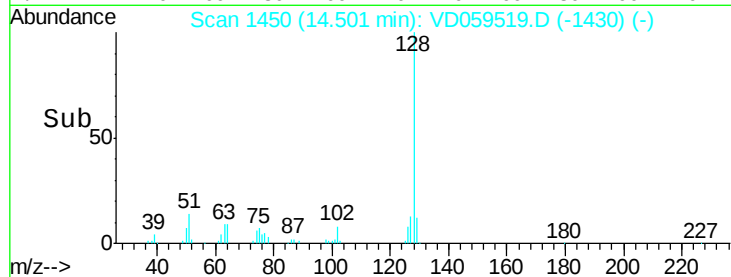
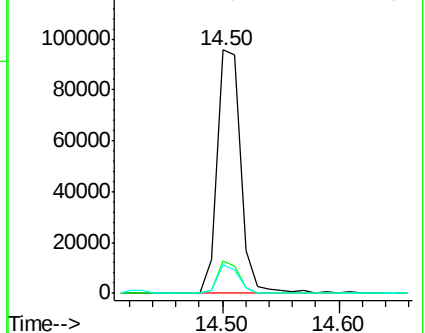
129 11.6 8.6 12.8



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: 10.07 ug/l

RT: 14.65 min Scan# 1465

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

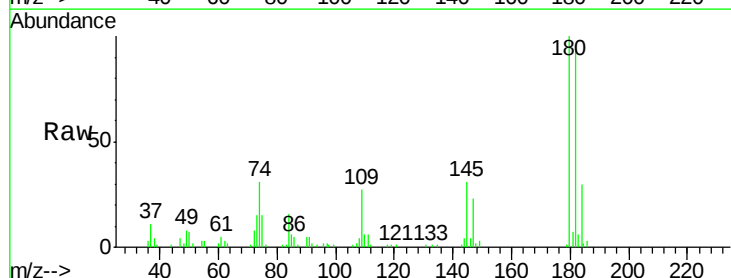
Tgt Ion:180 Resp: 78684

Ion Ratio Lower Upper

180 100

182 95.8 48.1 144.4

145 31.4 13.2 39.6



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

