

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060979.D
 Acq On : 8 Mar 2019 13:02
 Operator : VA/AP
 Sample : K1560-02L0010PPB
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Quant Time: Mar 08 23:57:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	827317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1374892	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	1107907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	483822	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	326667	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	6.92	113	528558	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
50) Toluene-d8	10.41	98	1208726	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
62) 4-Bromofluorobenzene	13.55	95	494915	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	81320	9.923	ug/l	98
3) Chloromethane	1.76	50	65492	9.593	ug/l	97
4) Vinyl Chloride	1.86	62	59855	9.489	ug/l	97
5) Bromomethane	2.17	94	12471	9.065	ug/l	91
6) Chloroethane	2.27	64	17496	9.266	ug/l	97
7) Trichlorofluoromethane	2.54	101	81340	8.976	ug/l	100
8) Diethyl Ether	2.88	74	26403	8.832	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.16	101	96258	9.501	ug/l	97
10) Methyl Iodide	3.32	142	84628	8.643	ug/l	99
11) Tert butyl alcohol	4.07	59	22002	50.186	ug/l #	94
12) 1,1-Dichloroethene	3.14	96	78968	9.509	ug/l	94
13) Acrolein	3.04	56	30074	47.410	ug/l	91
14) Allyl chloride	3.62	41	124629	9.380	ug/l	97
15) Acrylonitrile	4.19	53	74679	48.197	ug/l	99
16) Acetone	3.23	43	87536	44.452	ug/l	91
17) Carbon Disulfide	3.39	76	264325	9.435	ug/l	99
18) Methyl Acetate	3.64	43	32387	8.357	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	139435	9.581	ug/l	96
20) Methylene Chloride	3.82	84	107020	8.002	ug/l	91
21) trans-1,2-Dichloroethene	4.22	96	87309	9.713	ug/l	96
22) Diisopropyl ether	5.12	45	262968	9.534	ug/l	99
23) Vinyl Acetate	5.05	43	683525	48.273	ug/l	100
24) 1,1-Dichloroethane	4.98	63	138687	9.177	ug/l	98
25) 2-Butanone	6.06	43	112561	50.373	ug/l	96
26) 2,2-Dichloropropane	6.02	77	114146	9.675	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	96068	10.073	ug/l	96
28) Bromochloromethane	6.43	49	57550	8.995	ug/l	98
29) Tetrahydrofuran	6.45	42	50897	41.947	ug/l	98
30) Chloroform	6.65	83	148929	9.508	ug/l	100
31) Cyclohexane	6.95	56	117271	9.624	ug/l	99
32) 1,1,1-Trichloroethane	6.86	97	123322	9.107	ug/l	98
36) 1,1-Dichloropropene	7.14	75	114825	9.689	ug/l	98
37) Ethyl Acetate	6.18	43	48083	8.646	ug/l	97
38) Carbon Tetrachloride	7.11	117	119054	9.120	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	104862	8.533	ug/l	98
40) Benzene	7.44	78	261420	8.828	ug/l	99
41) Methacrylonitrile	6.44	41	56717	8.866	ug/l	93
42) 1,2-Dichloroethane	7.57	62	77982	9.074	ug/l	96
43) Isopropyl Acetate	9.23	43	64133	8.326	ug/l #	99
44) Trichloroethene	8.54	130	95202	9.318	ug/l	99
45) 1,2-Dichloropropane	8.93	63	70909	9.114	ug/l	100
46) Dibromomethane	9.05	93	43240	8.762	ug/l	93
47) Bromodichloromethane	9.36	83	101604	9.123	ug/l	99
48) Methyl methacrylate	9.11	41	41788	9.635	ug/l	92
49) 1,4-Dioxane	9.08	88	7616	173.666	ug/l	96
51) 4-Methyl-2-Pentanone	10.29	43	211483	44.816	ug/l	99
52) Toluene	10.49	92	184922	10.042	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	94968	9.326	ug/l	99
54) cis-1,3-Dichloropropene	10.03	75	108442	8.863	ug/l	99
55) 1,1,2-Trichloroethane	11.18	97	58973	9.616	ug/l	96
56) Ethyl methacrylate	11.03	69	59433	9.259	ug/l	97
57) 1,3-Dichloropropane	11.40	76	87511	9.549	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.84	63	154279	45.407	ug/l	99
59) 2-Hexanone	11.52	43	176266	51.064	ug/l	98
60) Dibromochloromethane	11.68	129	83017	9.198	ug/l	100
61) 1,2-Dibromoethane	11.79	107	65019	9.114	ug/l	96
64) Tetrachloroethene	11.24	164	75422	10.085	ug/l	98
65) Chlorobenzene	12.39	112	215093	9.903	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.50	131	82965	10.716	ug/l	97
67) Ethyl Benzene	12.51	91	352043	10.887	ug/l	98
68) m/p-Xylenes	12.66	106	262275	20.666	ug/l	98
69) o-Xylene	13.04	106	108134	8.668	ug/l	99
70) Styrene	13.06	104	200897	9.862	ug/l	99
71) Bromoform	13.23	173	48950	9.801	ug/l	94
73) Isopropylbenzene	13.40	105	359984	10.324	ug/l	99
74) N-amyl acetate	13.26	43	96738	9.853	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.69	83	64610	9.497	ug/l	99
76) 1,2,3-Trichloropropane	13.72	75	67843	9.747	ug/l	98
77) Bromobenzene	13.66	156	87712	9.854	ug/l	97
78) n-propylbenzene	13.76	91	428648	10.501	ug/l	98
79) 2-Chlorotoluene	13.83	91	230949	10.277	ug/l	96
80) 1,3,5-Trimethylbenzene	14.23	105	284328	10.741	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.47	75	18223	8.880	ug/l	96
82) 4-Chlorotoluene	13.94	91	269688	10.151	ug/l	99
83) tert-Butylbenzene	14.19	119	311151	10.741	ug/l	98
84) 1,2,4-Trimethylbenzene	14.23	105	284328	10.741	ug/l	96
85) sec-Butylbenzene	14.36	105	362259	10.243	ug/l	97
86) p-Isopropyltoluene	14.48	119	285226	9.867	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	164505	10.350	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	140491	8.995	ug/l	98
89) n-Butylbenzene	14.80	91	285674	10.291	ug/l	96
90) Hexachloroethane	15.00	117	75514	9.251	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	136006	10.265	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	8048	9.817	ug/l	78

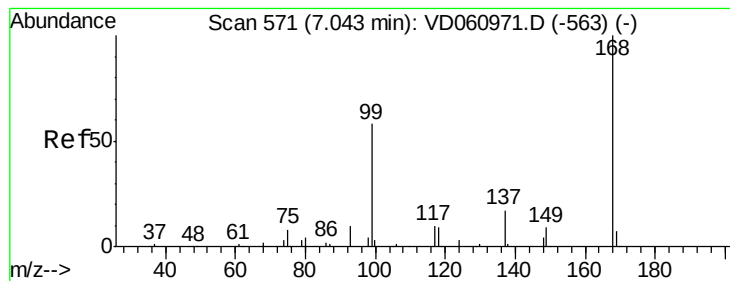
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030819\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	61291	9.972	ug/l	97
94) Hexachlorobutadiene	16.04	225	45099	9.700	ug/l	96
95) Naphthalene	16.12	128	85537	9.158	ug/l	98
96) 1,2,3-Trichlorobenzene	16.26	180	25184	8.296	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

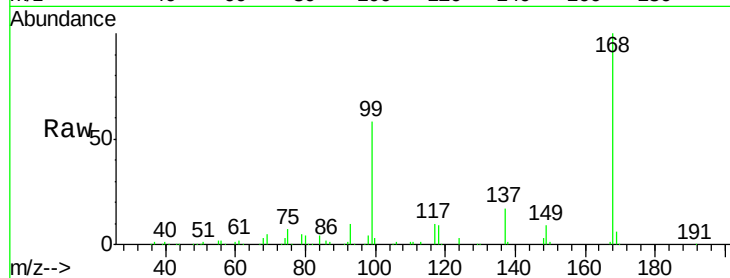
LOQ-SOIL-02-QT1-2019

Tot Ion:168 Resp: 827317

Ion Ratio Lower Upper

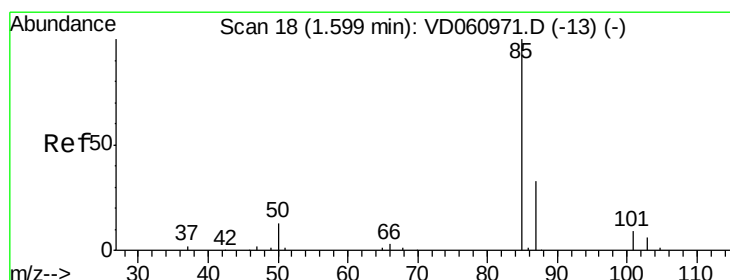
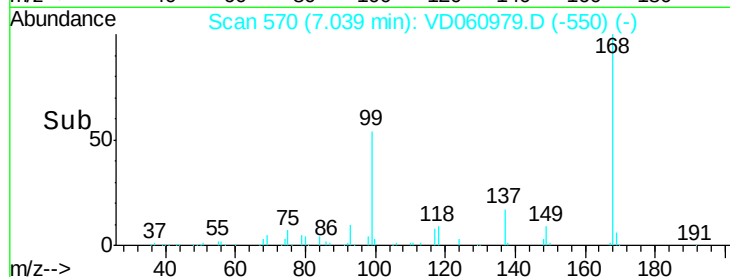
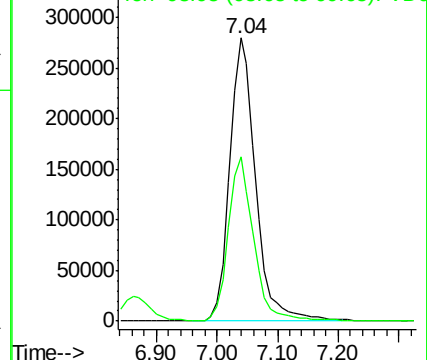
168 100

99 57.9 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 9.923 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.00 min

Lab File: VD060979.D

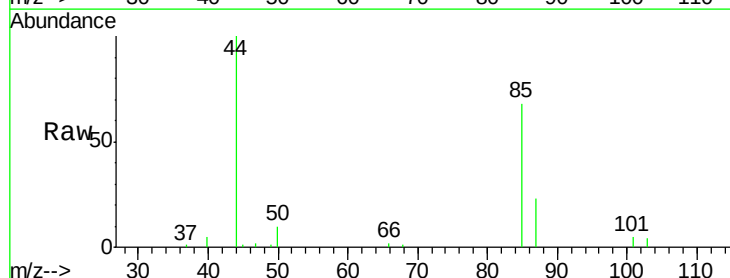
Acq: 8 Mar 2019 13:02

Tgt Ion: 85 Resp: 81320

Ion Ratio Lower Upper

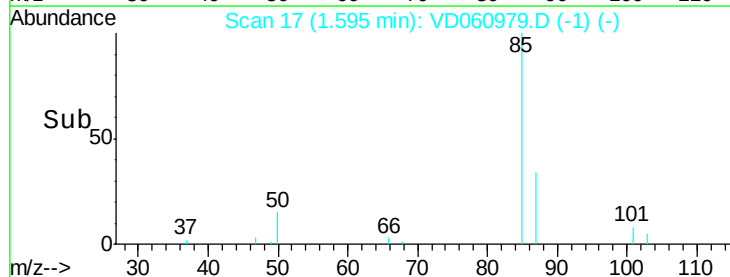
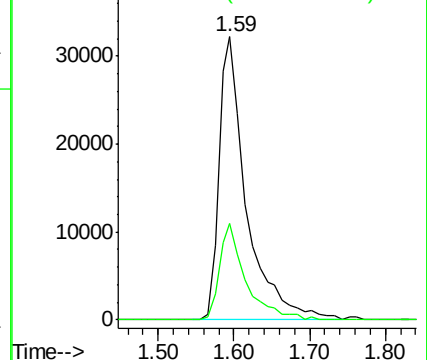
85 100

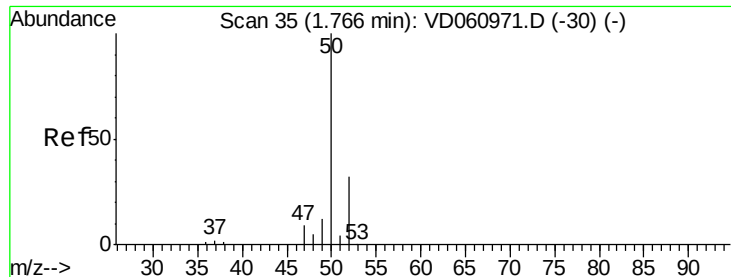
87 33.9 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 9.593 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

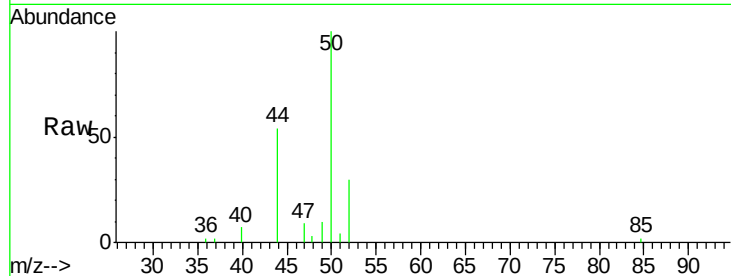
LOQ-SOIL-02-QT1-2019

Tot Ion: 50 Resp: 65492

Ion Ratio Lower Upper

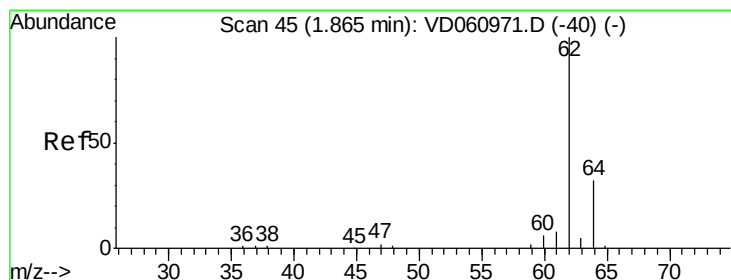
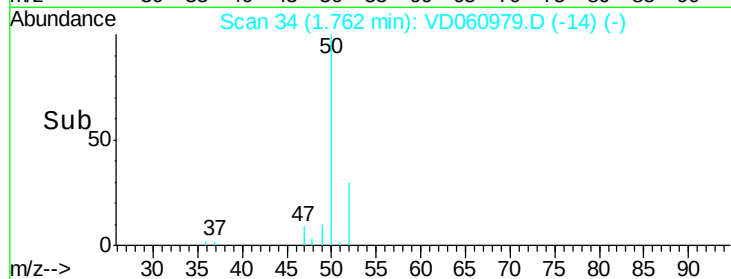
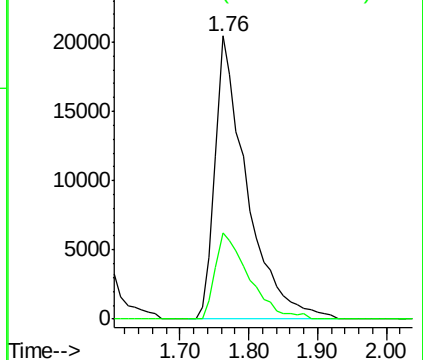
50 100

52 30.4 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 9.489 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.00 min

Lab File: VD060979.D

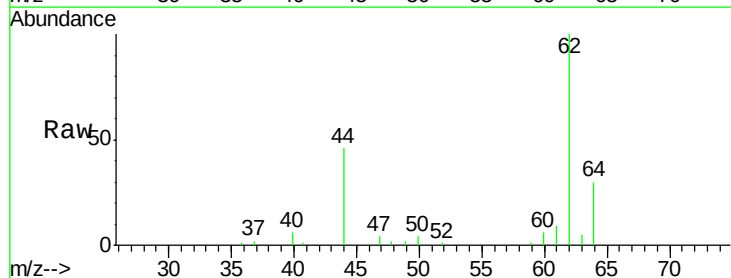
Acq: 8 Mar 2019 13:02

Tgt Ion: 62 Resp: 59855

Ion Ratio Lower Upper

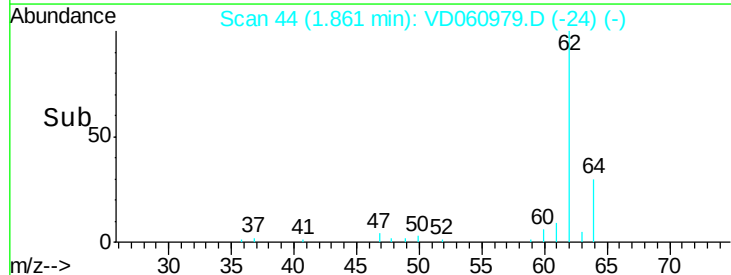
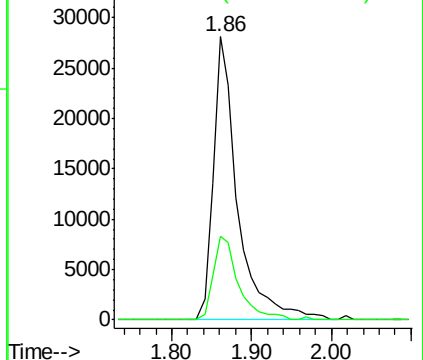
62 100

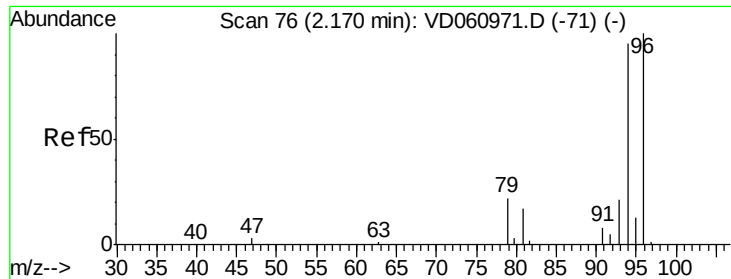
64 29.7 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 9.065 ug/l

RT: 2.17 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

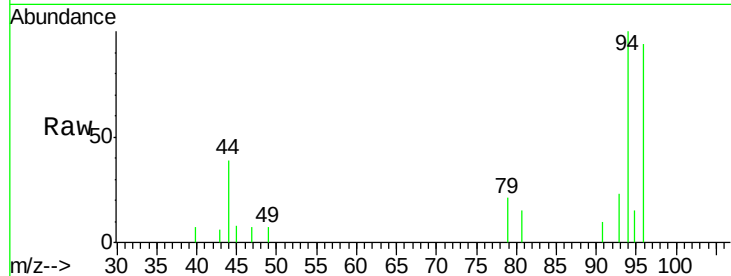
Tot Ion: 94 Resp: 12471

Ion Ratio Lower Upper

94 100

96 94.1 84.0 126.0

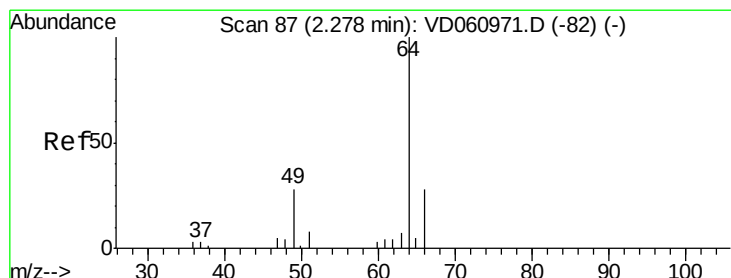
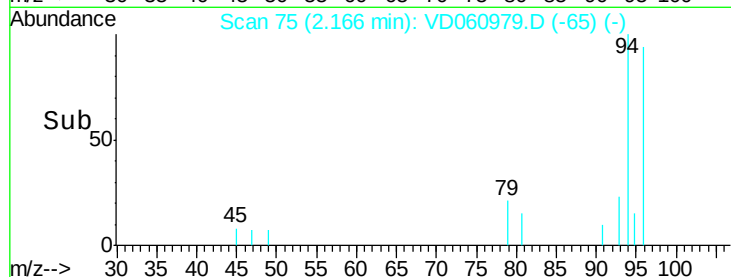
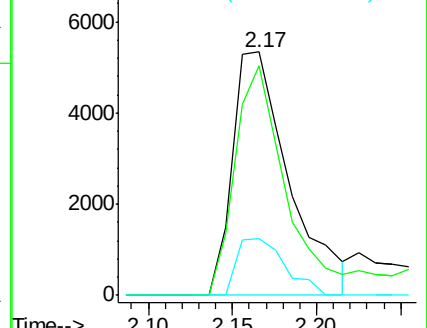
93 23.4 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 9.266 ug/l

RT: 2.27 min Scan# 86

Delta R.T. -0.00 min

Lab File: VD060979.D

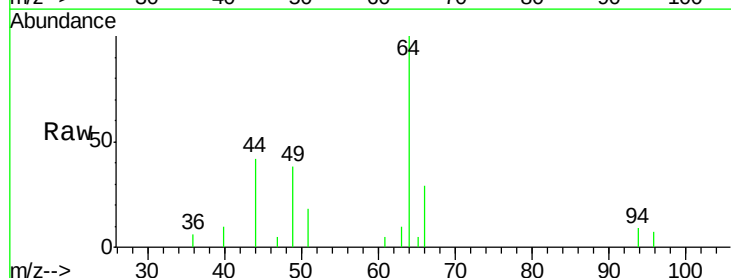
Acq: 8 Mar 2019 13:02

Tgt Ion: 64 Resp: 17496

Ion Ratio Lower Upper

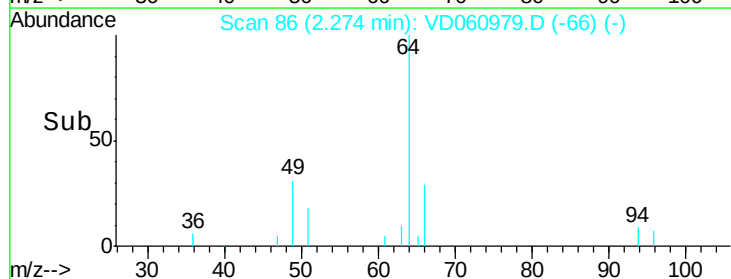
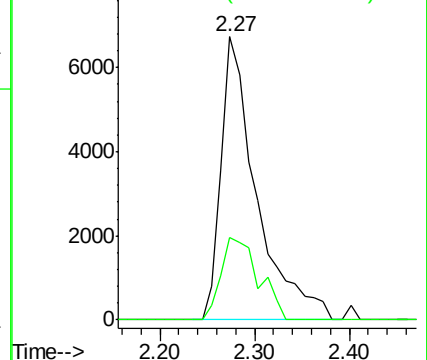
64 100

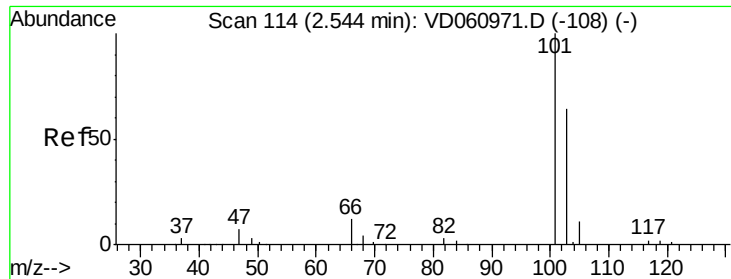
66 29.3 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



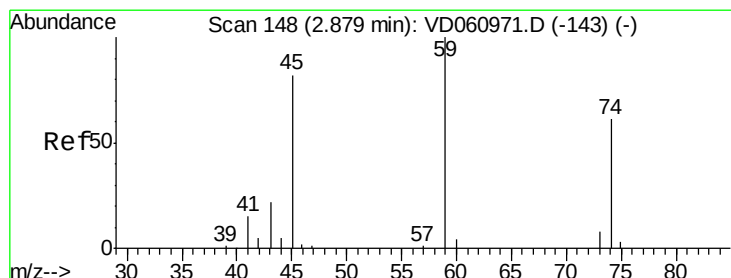
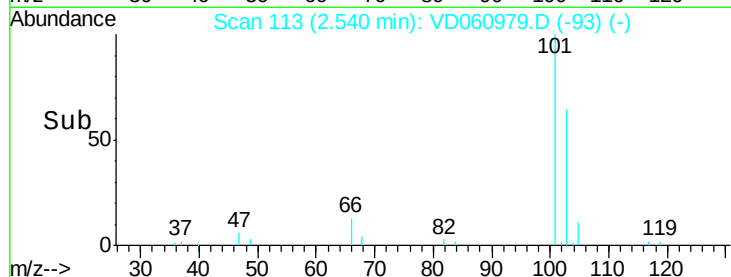
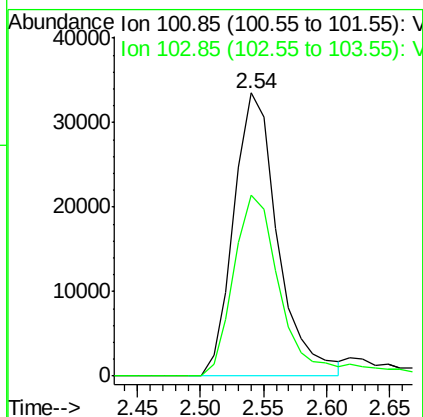
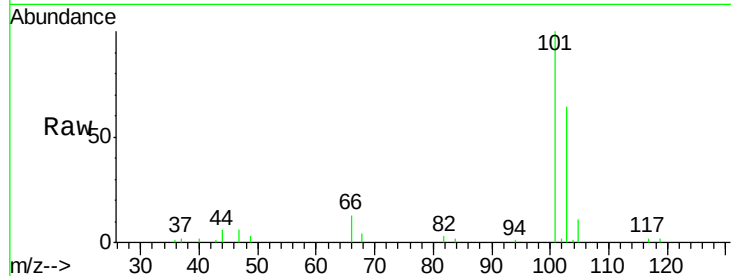


#7

Trichlorofluoromethane
 Concen: 8.976 ug/l
 RT: 2.54 min Scan# 113
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

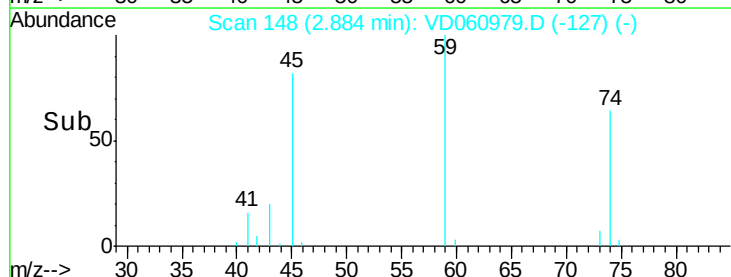
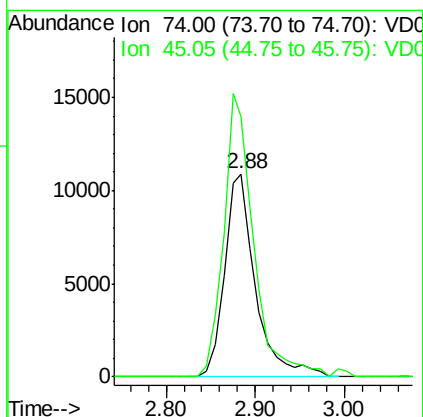
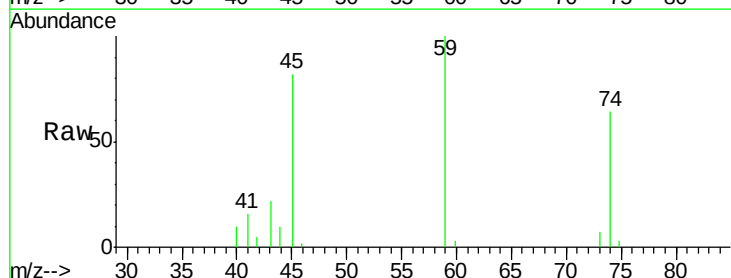
Tot Ion:101 Resp: 81340
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.2 76.8

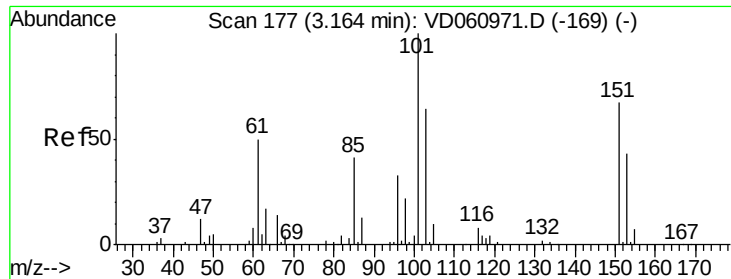


#8

Diethyl Ether
 Concen: 8.832 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.01 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion: 74 Resp: 26403
 Ion Ratio Lower Upper
 74 100
 45 128.4 67.0 201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.501 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

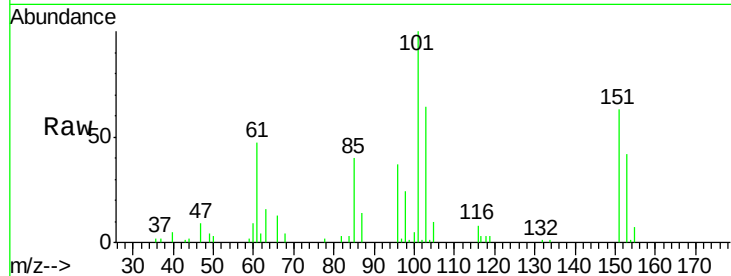
Tot Ion:101 Resp: 96258

Ion Ratio Lower Upper

101 100

85 40.0 32.5 48.7

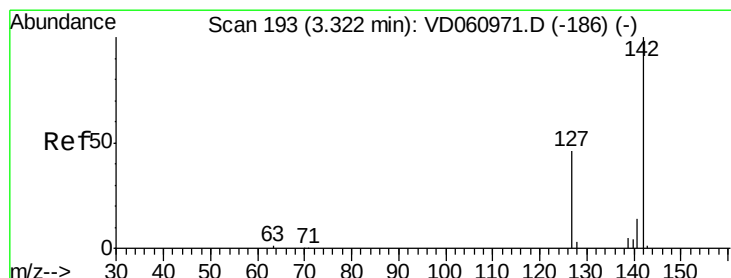
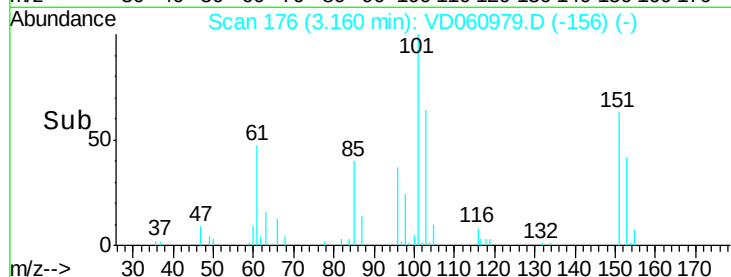
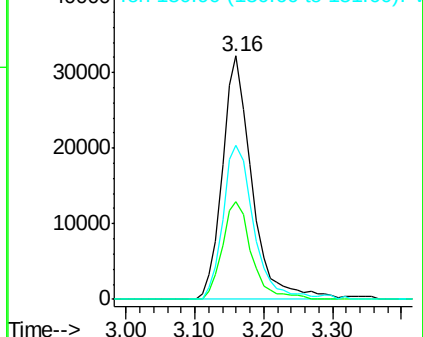
151 63.1 53.3 79.9



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: 8.643 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

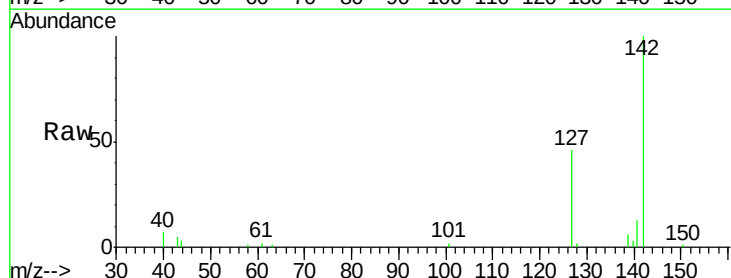
Tgt Ion:142 Resp: 84628

Ion Ratio Lower Upper

142 100

127 46.3 36.8 55.2

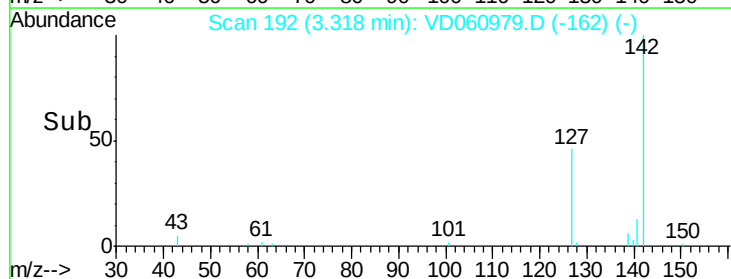
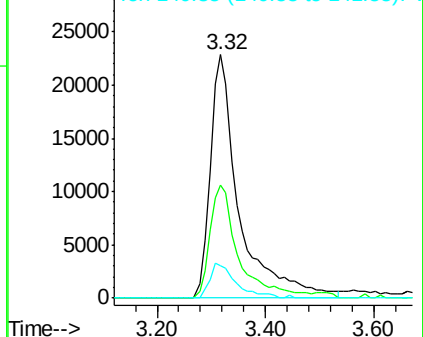
141 13.5 11.2 16.8

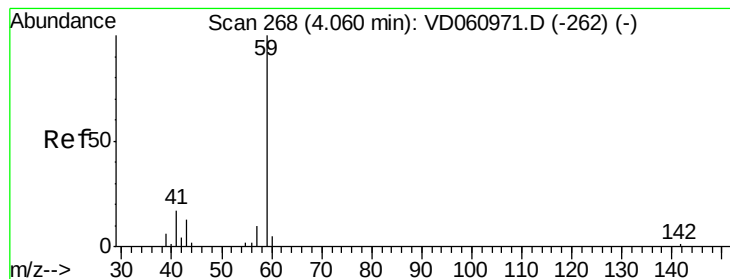


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



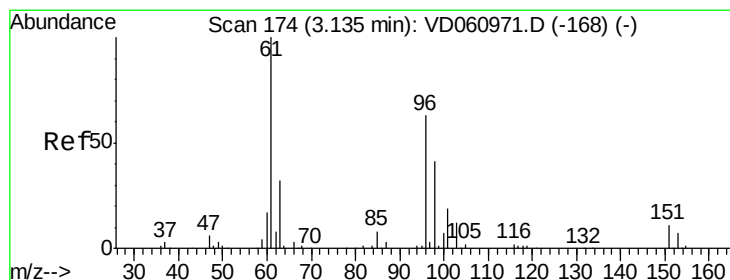
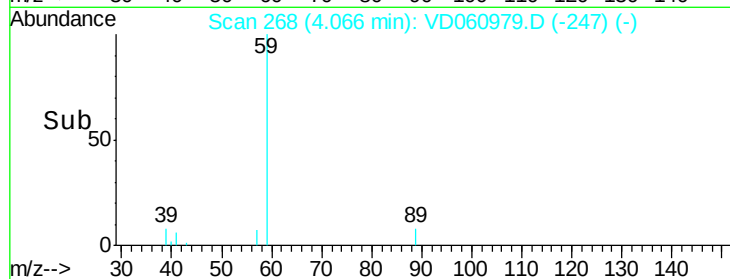
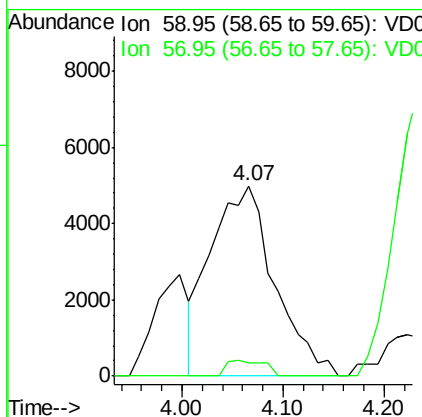
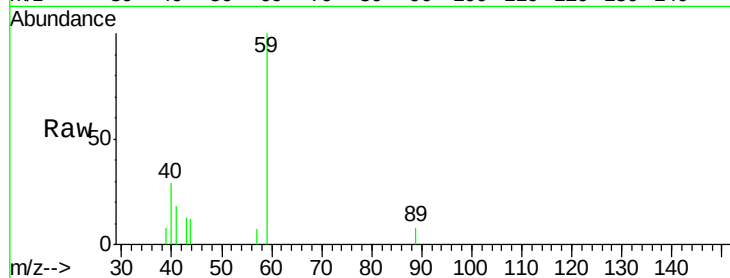


#11

Tert butyl alcohol
Concen: 50.186 ug/l
RT: 4.07 min Scan# 268
Delta R.T. 0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

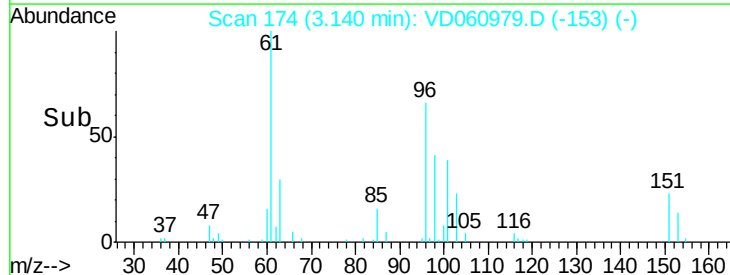
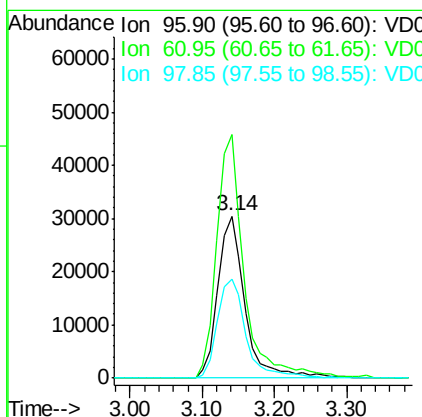
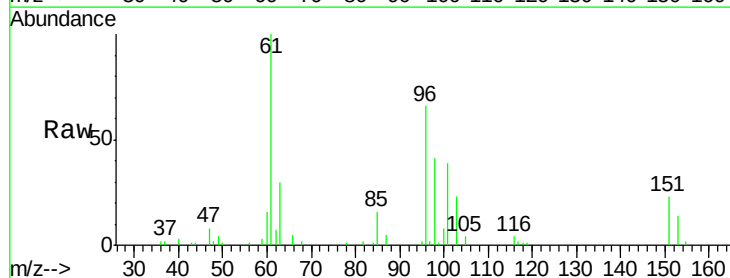
Tot Ion: 59 Resp: 22002
Ion Ratio Lower Upper
59 100
57 6.7 7.1 10.7#

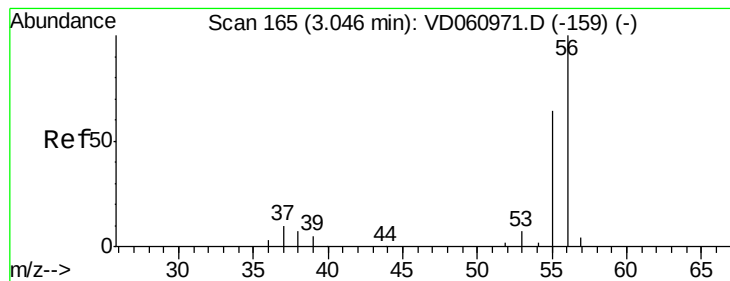


#12

1,1-Dichloroethene
Concen: 9.509 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 96 Resp: 78968
Ion Ratio Lower Upper
96 100
61 150.5 127.1 190.7
98 61.0 51.5 77.3





#13

Acrolein

Concen: 47.410 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

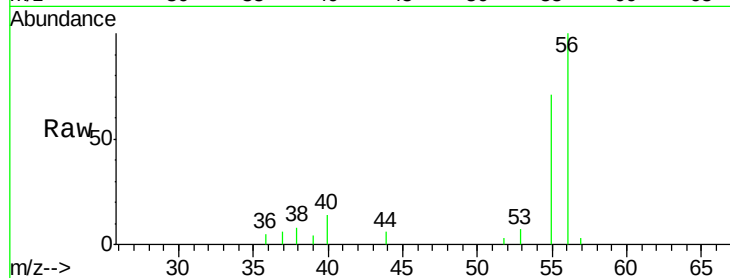
LOQ-SOIL-02-QT1-2019

Tot Ion: 56 Resp: 30074

Ion Ratio Lower Upper

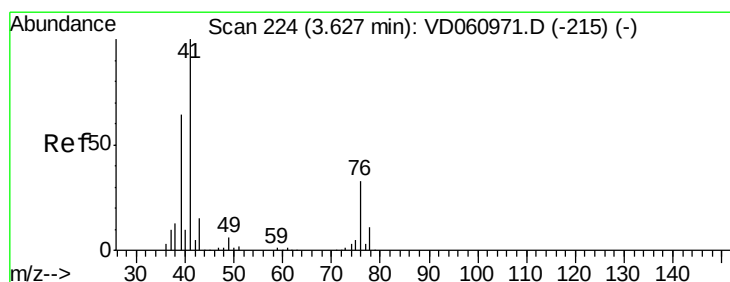
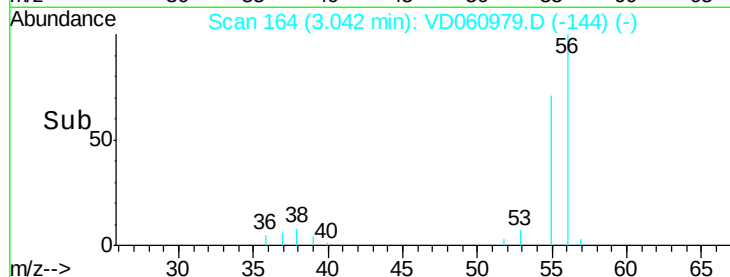
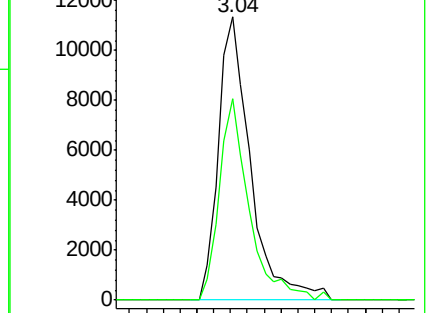
56 100

55 71.3 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 9.380 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

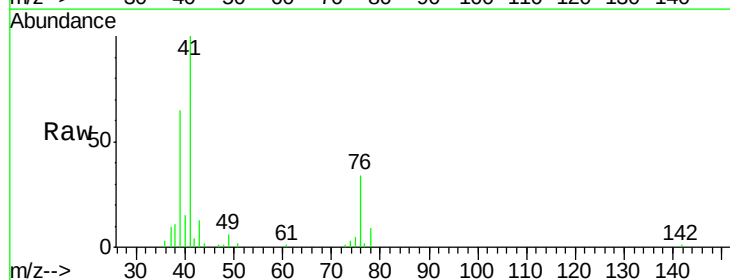
Tgt Ion: 41 Resp: 124629

Ion Ratio Lower Upper

41 100

39 65.1 51.1 76.7

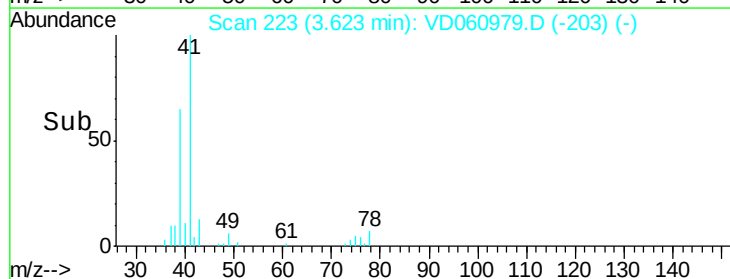
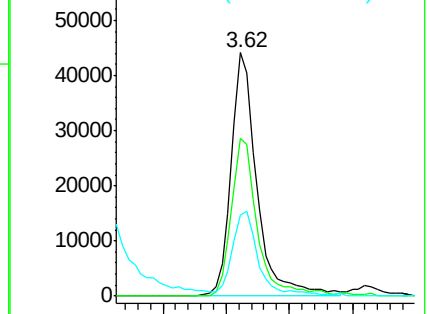
76 33.5 29.1 43.7

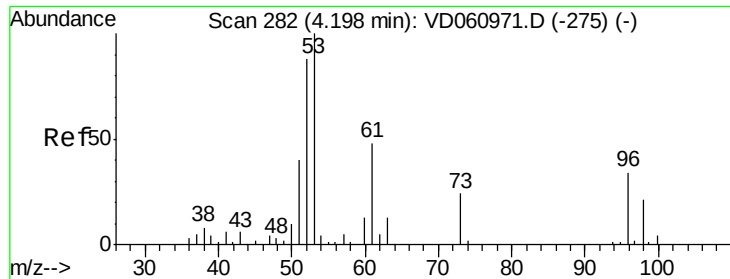


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 48.197 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

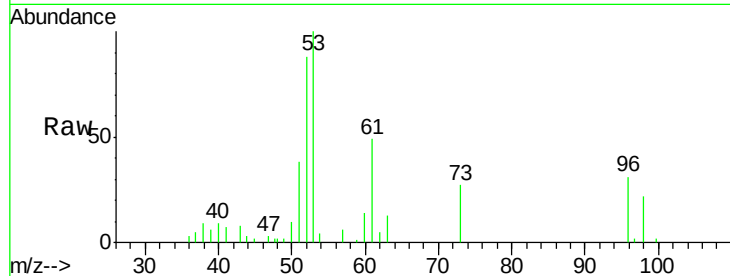
Tot Ion: 53 Resp: 74679

Ion Ratio Lower Upper

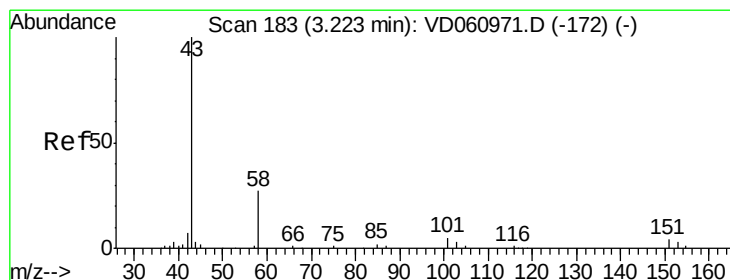
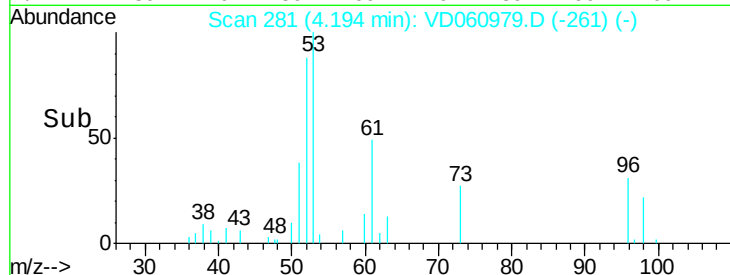
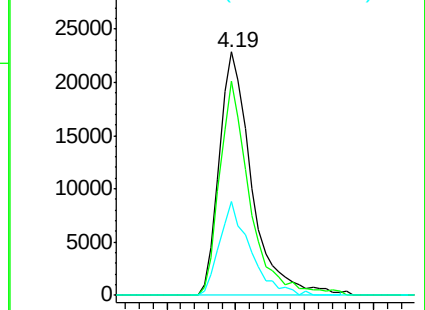
53 100

52 87.8 70.2 105.4

51 38.3 31.7 47.5



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 44.452 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD060979.D

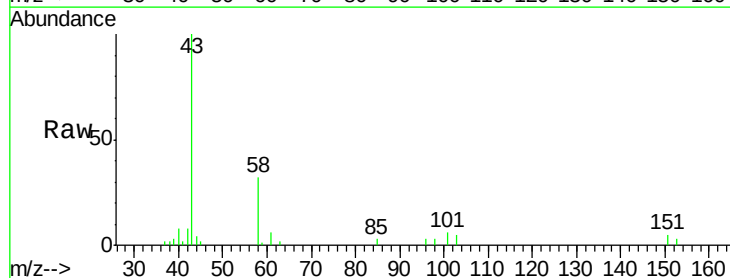
Acq: 8 Mar 2019 13:02

Tgt Ion: 43 Resp: 87536

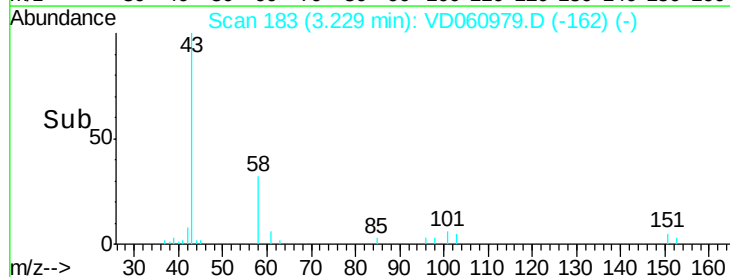
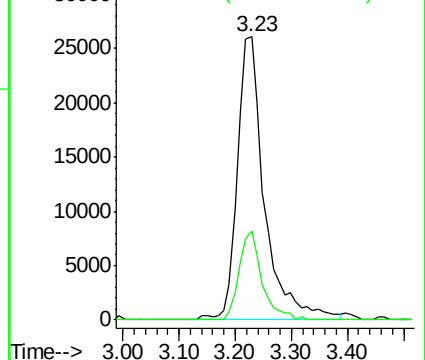
Ion Ratio Lower Upper

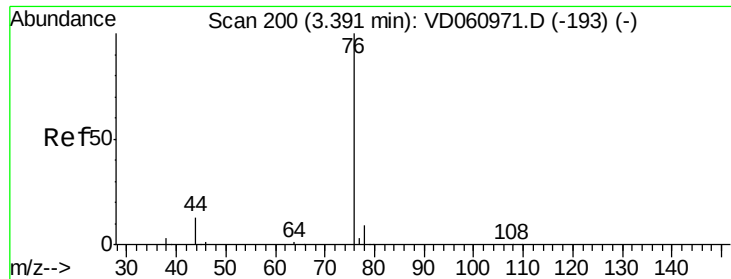
43 100

58 31.5 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

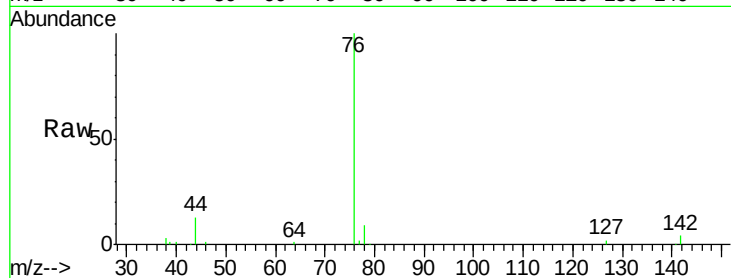




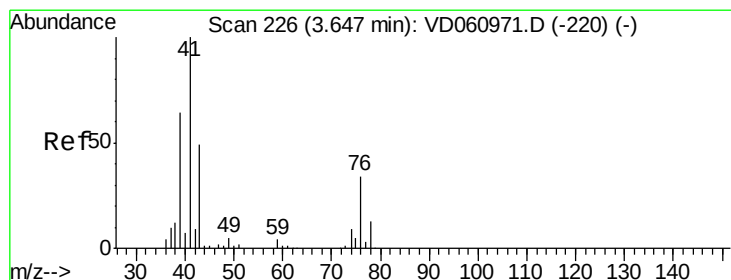
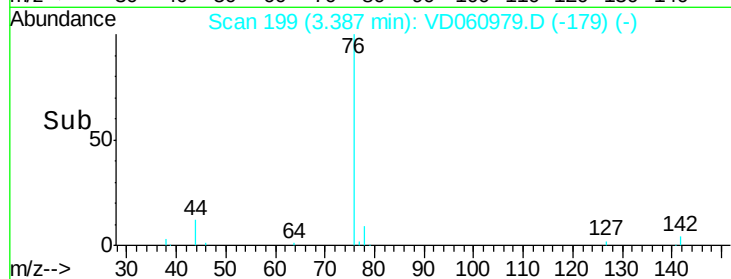
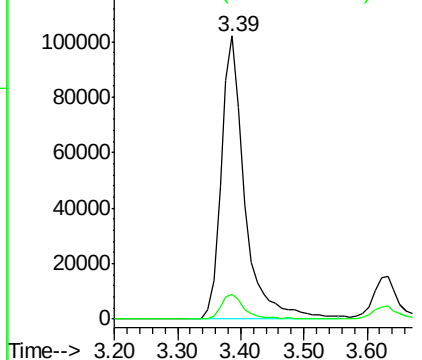
#17
Carbon Disulfide
Concen: 9.435 ug/l
RT: 3.39 min Scan# 199
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 264325
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2

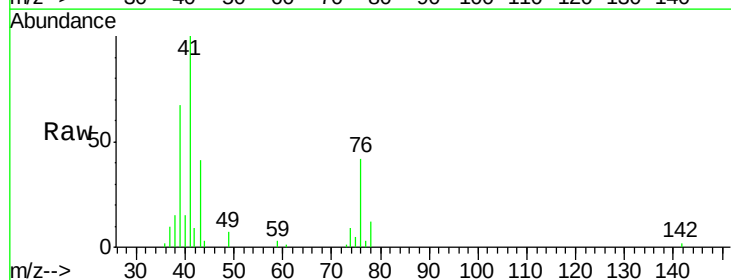


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

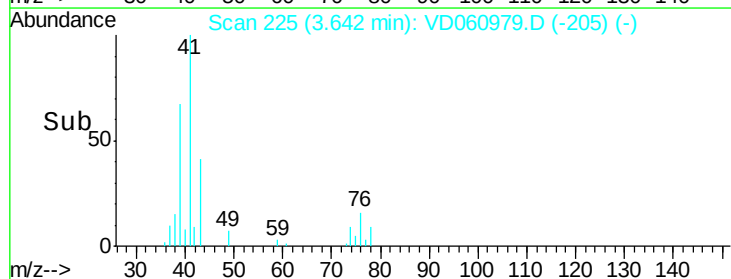
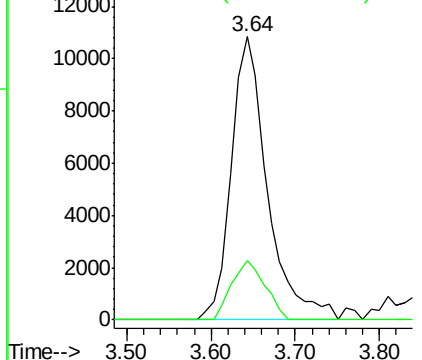


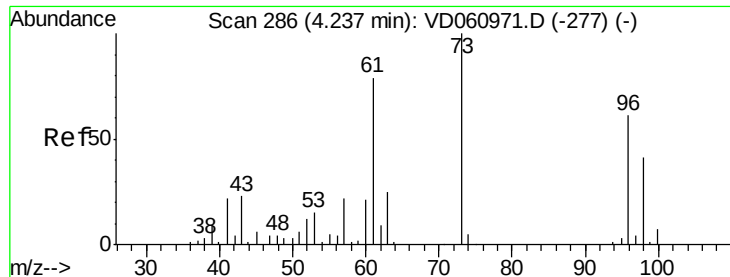
#18
Methyl Acetate
Concen: 8.357 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 43 Resp: 32387
Ion Ratio Lower Upper
43 100
74 21.2 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

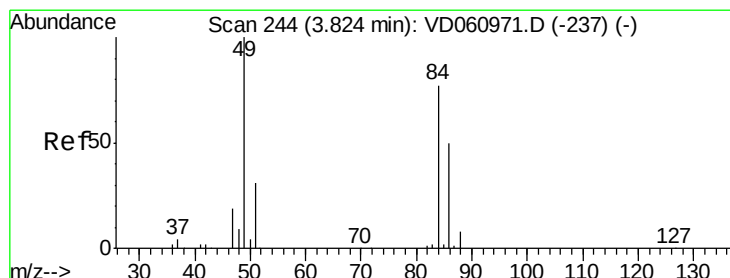
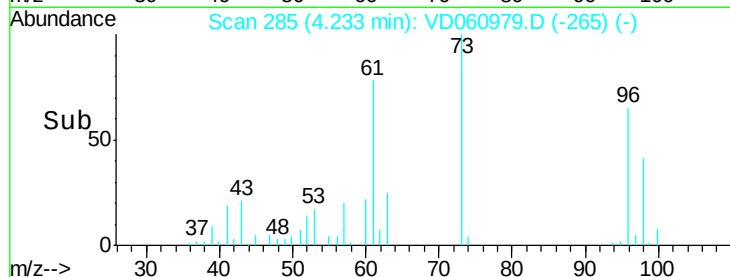
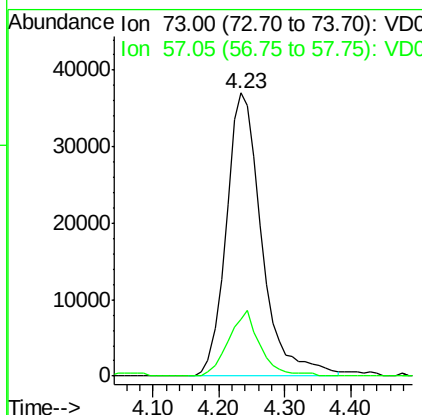
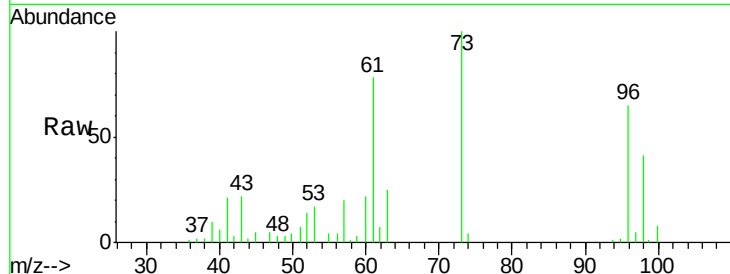




#19
Methyl tert-butyl Ether
Concen: 9.581 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

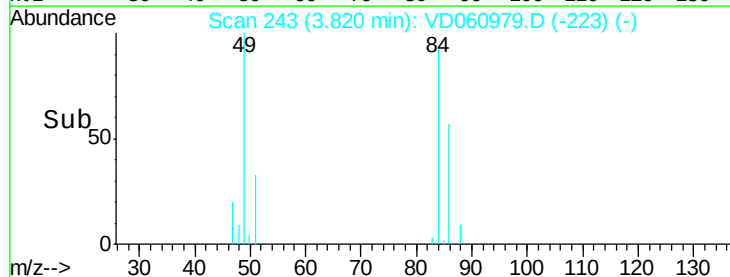
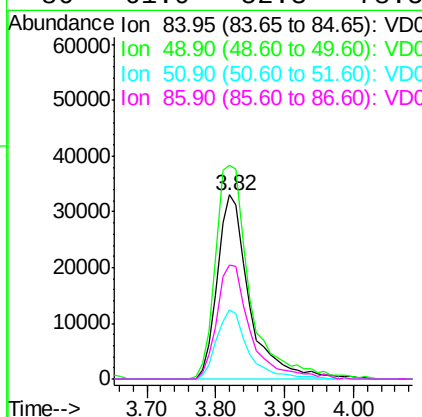
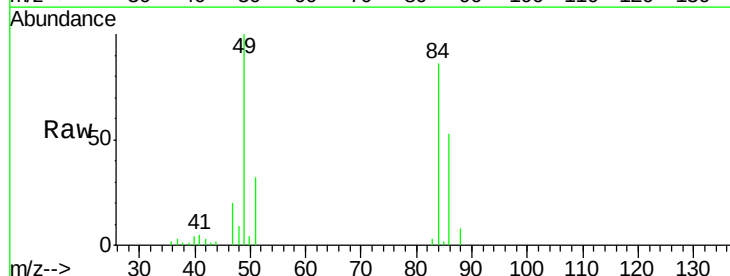
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

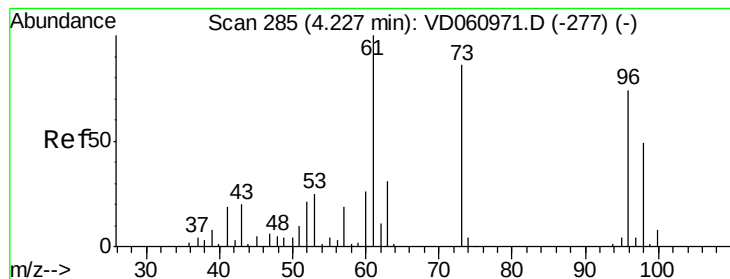
Tot Ion: 73 Resp: 139435
Ion Ratio Lower Upper
73 100
57 20.1 17.7 26.5



#20
Methylene Chloride
Concen: 8.002 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 84 Resp: 107020
Ion Ratio Lower Upper
84 100
49 116.2 104.2 156.2
51 37.5 32.3 48.5
86 61.9 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 9.713 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

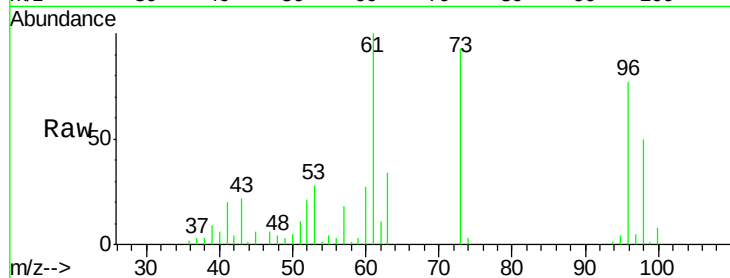
Tot Ion: 96 Resp: 87309

Ion Ratio Lower Upper

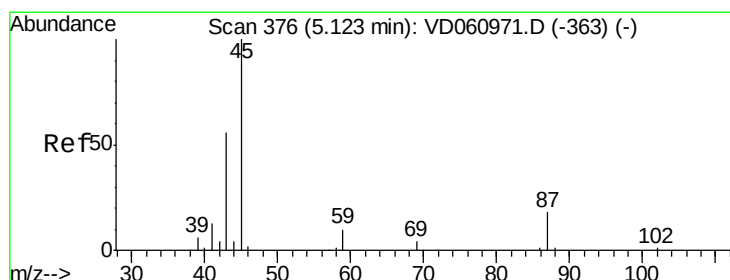
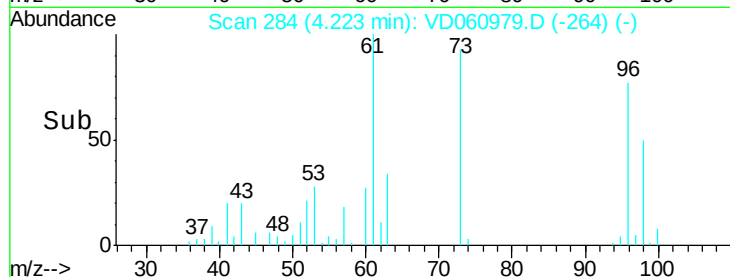
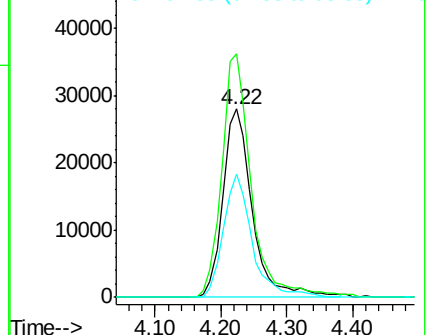
96 100

61 129.4 108.4 162.6

98 65.3 53.0 79.4



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



#22

Diisopropyl ether

Concen: 9.534 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Tgt Ion: 45 Resp: 262968

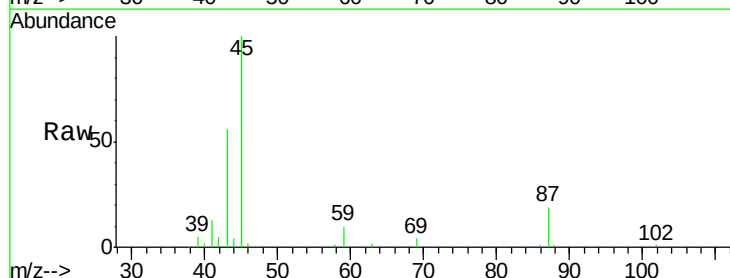
Ion Ratio Lower Upper

45 100

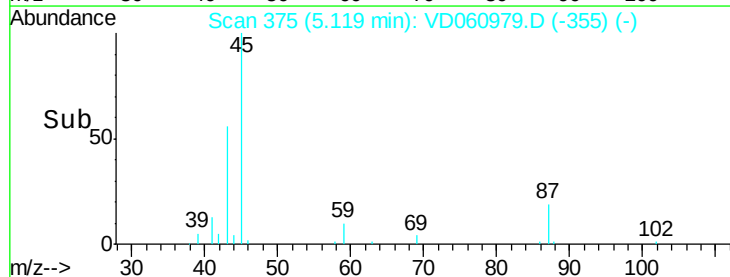
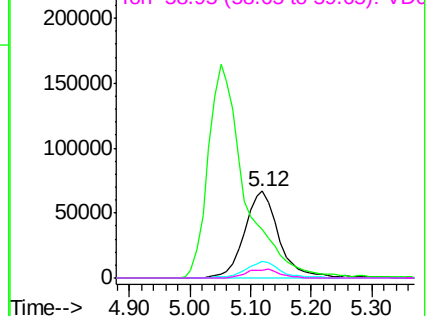
43 56.4 45.8 68.8

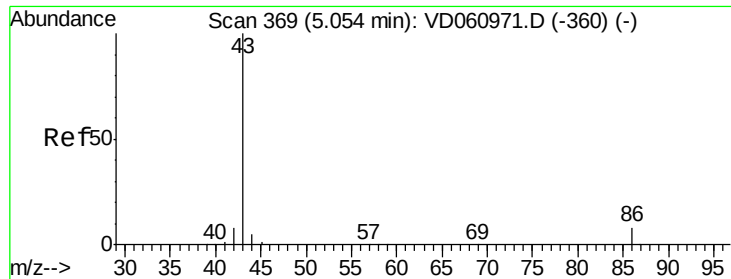
87 18.9 14.9 22.3

59 9.7 8.0 12.0



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 48.273 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

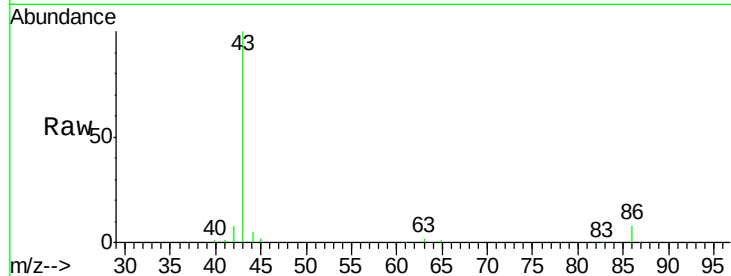
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 683525

Ion Ratio Lower Upper

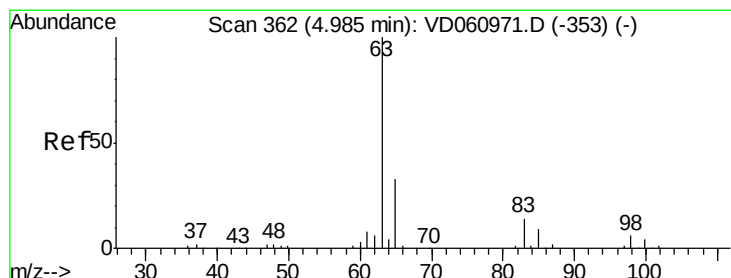
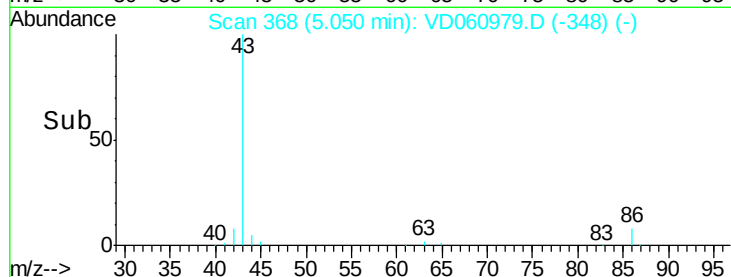
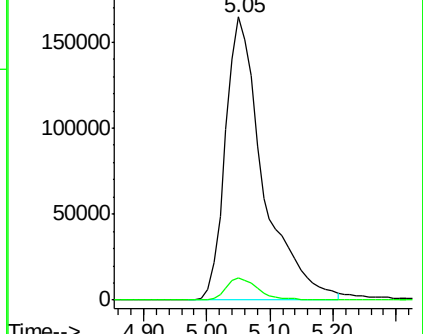
43 100

86 7.6 6.2 9.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 9.177 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

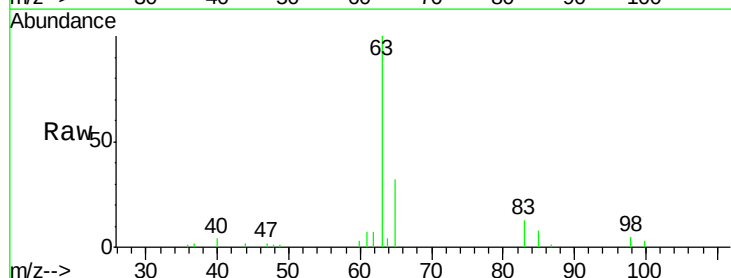
Tgt Ion: 63 Resp: 138687

Ion Ratio Lower Upper

63 100

98 5.4 3.0 9.2

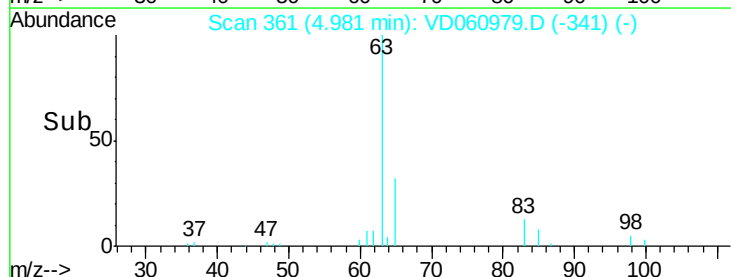
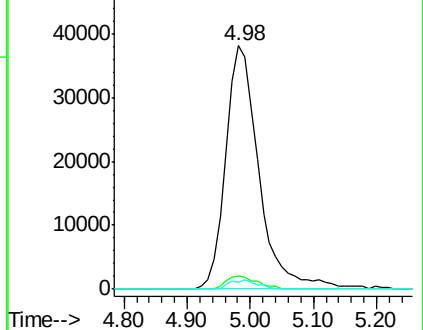
100 2.8 2.0 5.8

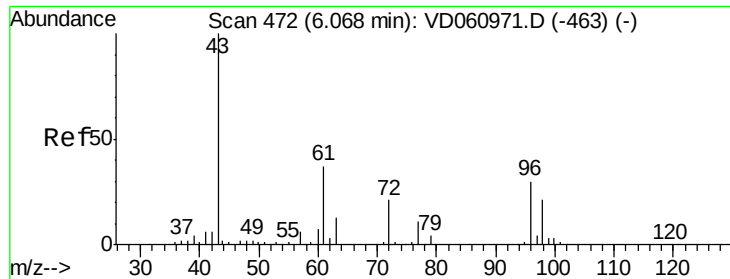


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 50.373 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

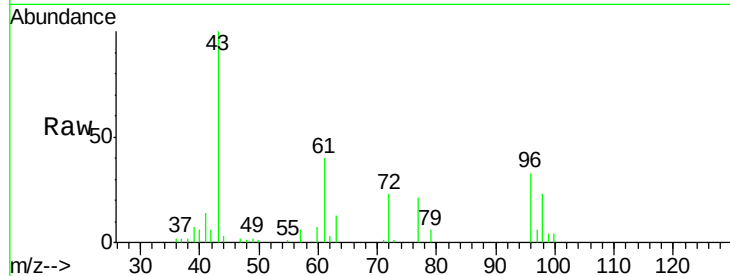
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 112561

Ion Ratio Lower Upper

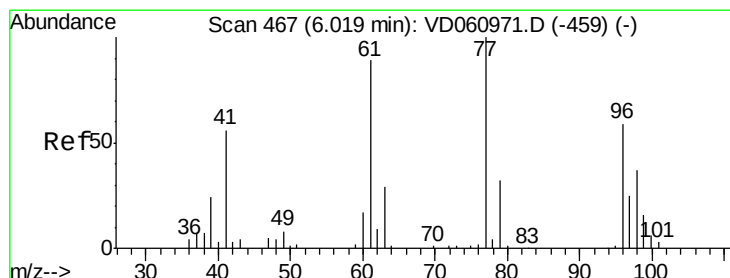
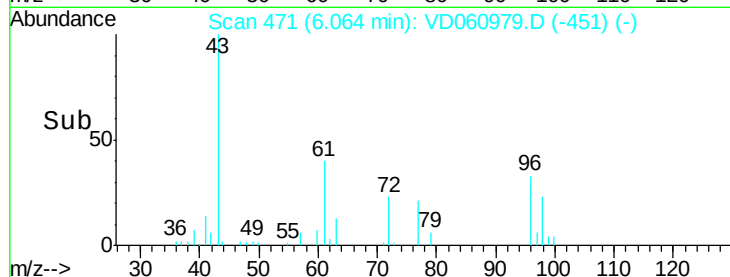
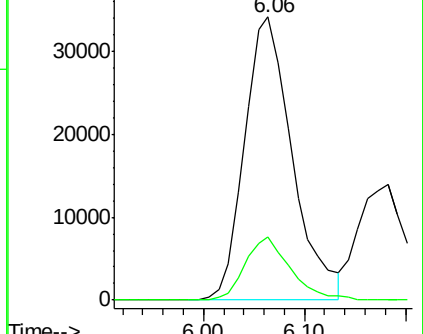
43 100

72 22.6 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 9.675 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.01 min

Lab File: VD060979.D

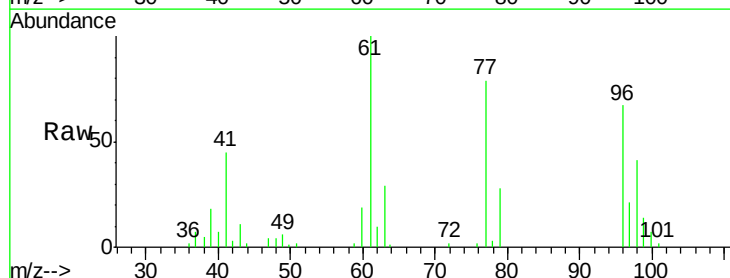
Acq: 8 Mar 2019 13:02

Tgt Ion: 77 Resp: 114146

Ion Ratio Lower Upper

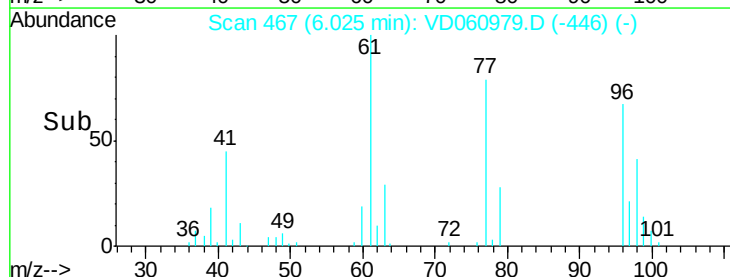
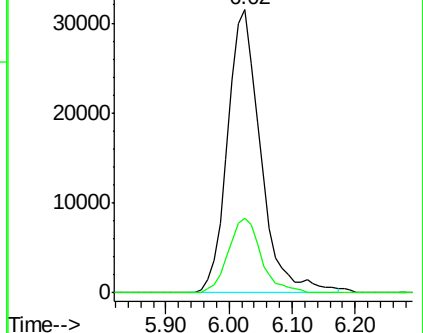
77 100

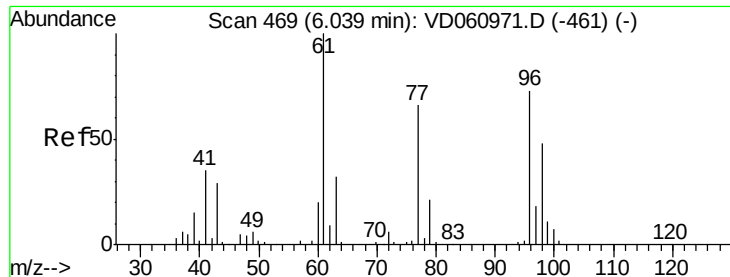
97 26.4 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



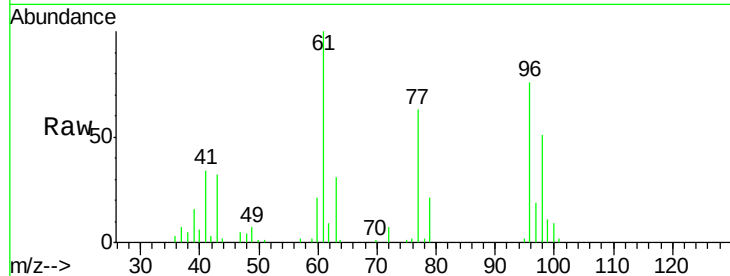


#27

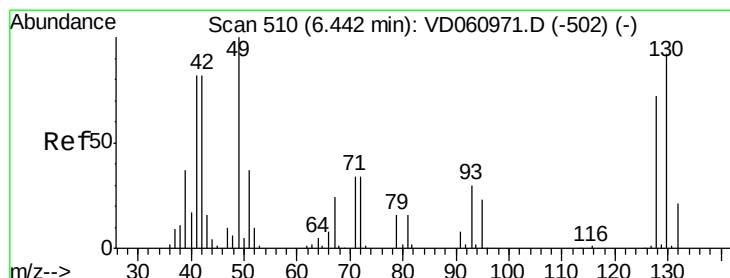
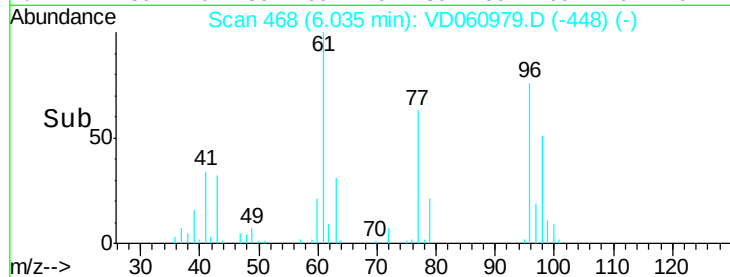
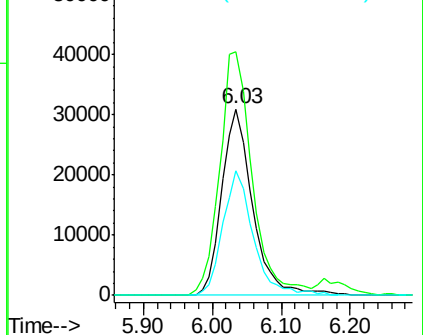
cis-1,2-Dichloroethene
Concen: 10.073 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 96 Resp: 96068
Ion Ratio Lower Upper
96 100
61 130.9 0.0 273.6
98 67.1 0.0 132.6



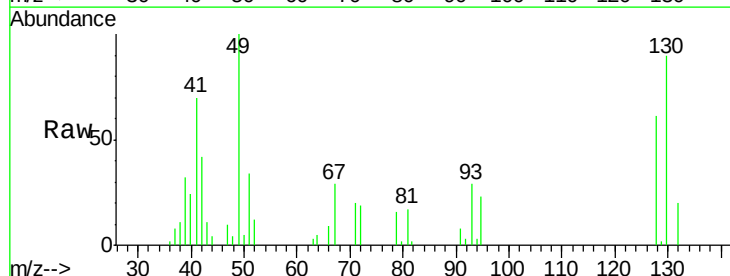
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



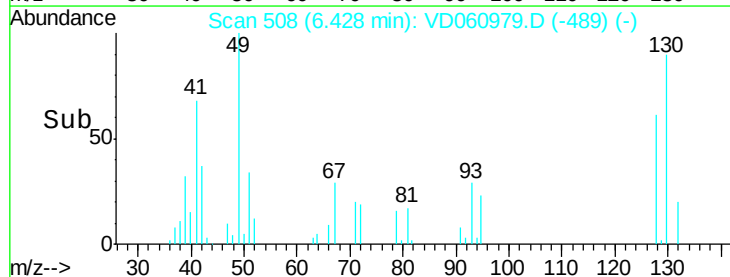
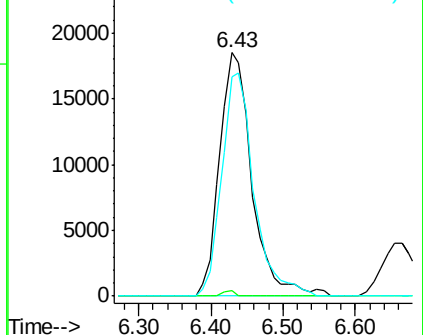
#28

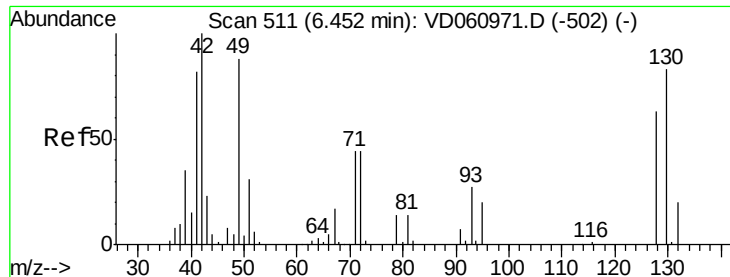
Bromochloromethane
Concen: 8.995 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 49 Resp: 57550
Ion Ratio Lower Upper
49 100
129 2.3 0.0 4.0
130 90.2 73.8 110.8



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

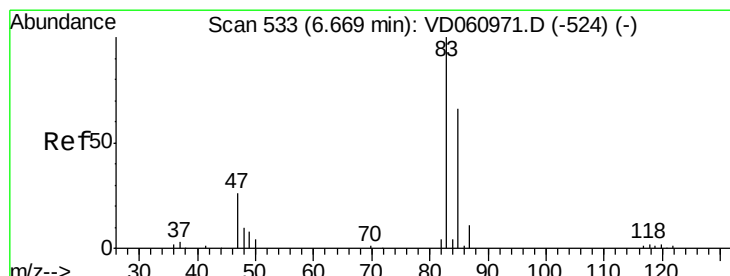
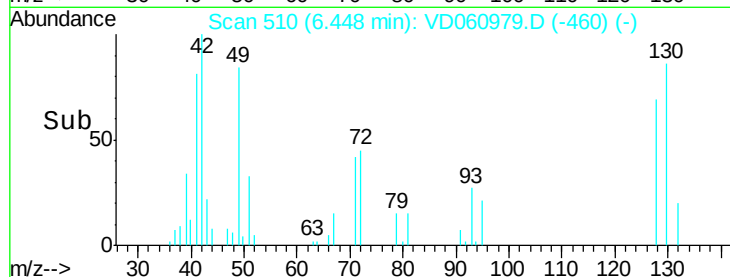
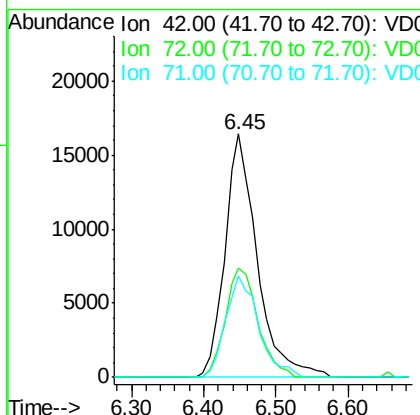
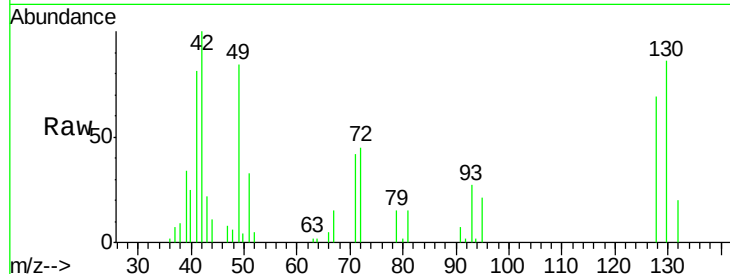




#29
Tetrahydrofuran
Concen: 41.947 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

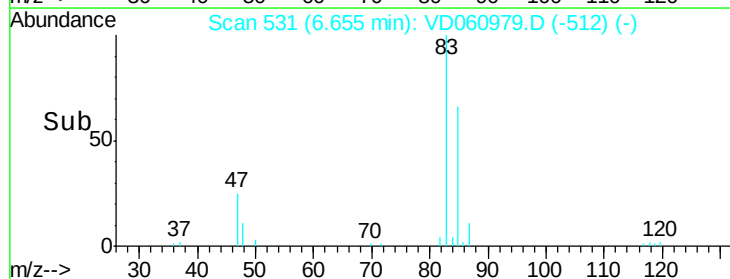
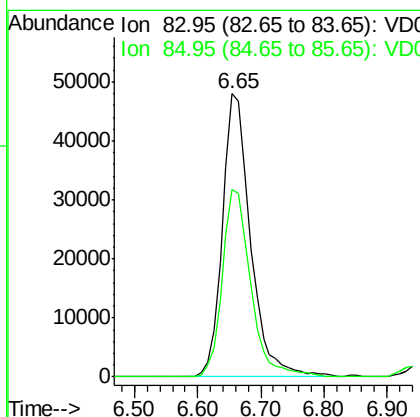
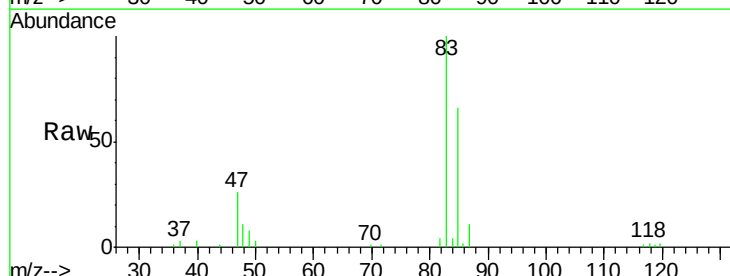
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

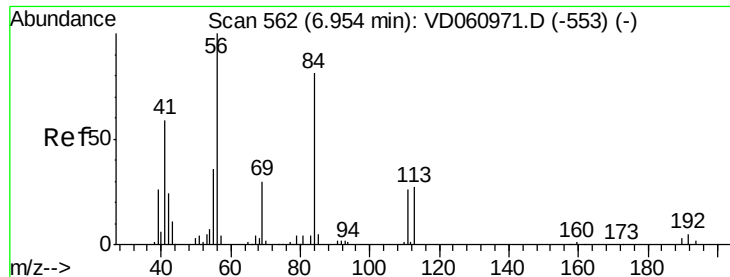
Tot Ion: 42 Resp: 50897
Ion Ratio Lower Upper
42 100
72 45.4 34.5 51.7
71 42.6 33.8 50.6



#30
Chloroform
Concen: 9.508 ug/l
RT: 6.65 min Scan# 531
Delta R.T. -0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 83 Resp: 148929
Ion Ratio Lower Upper
83 100
85 66.2 53.0 79.4

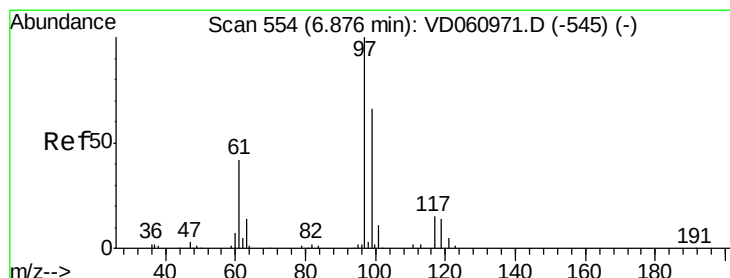
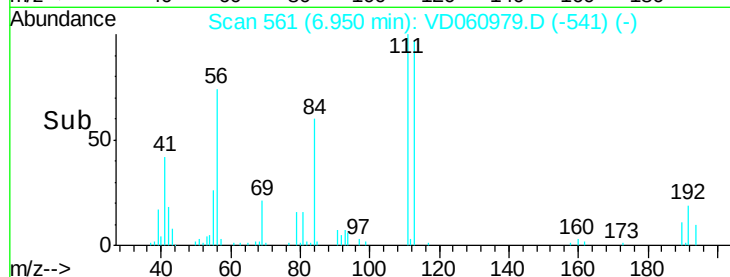
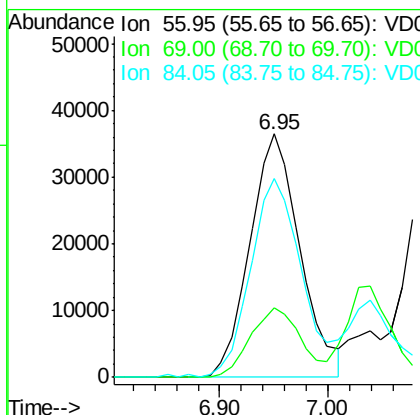
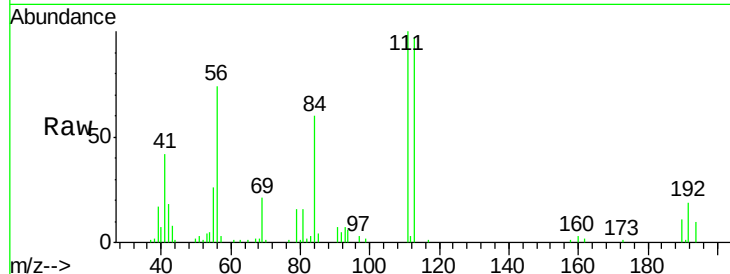




#31
Cyclohexane
Concen: 9.624 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

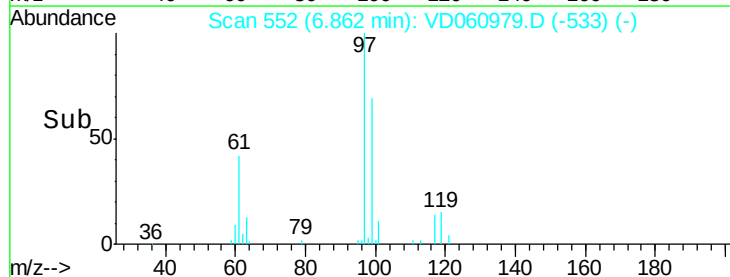
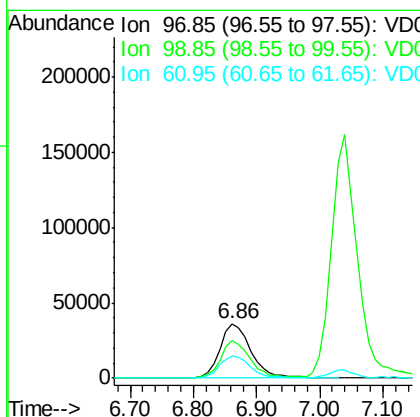
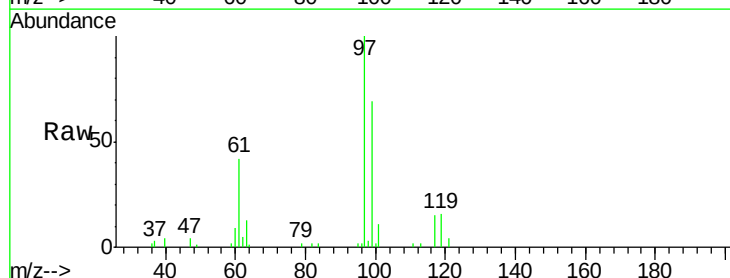
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

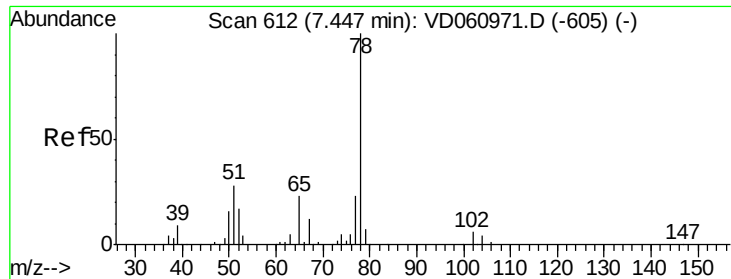
Tot Ion: 56 Resp: 117271
Ion Ratio Lower Upper
56 100
69 28.6 24.0 36.0
84 81.6 65.8 98.6



#32
1,1,1-Trichloroethane
Concen: 9.107 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 97 Resp: 123322
Ion Ratio Lower Upper
97 100
99 69.2 53.2 79.8
61 41.8 33.8 50.8

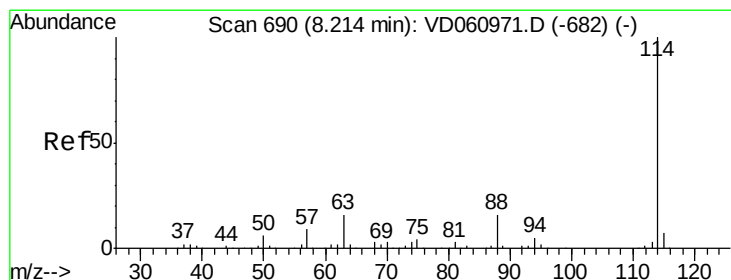
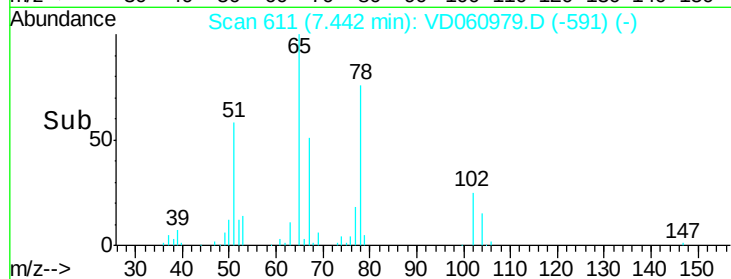
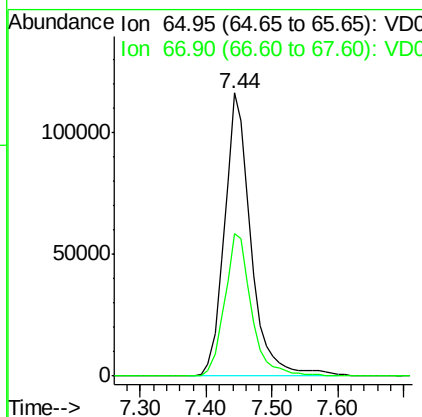
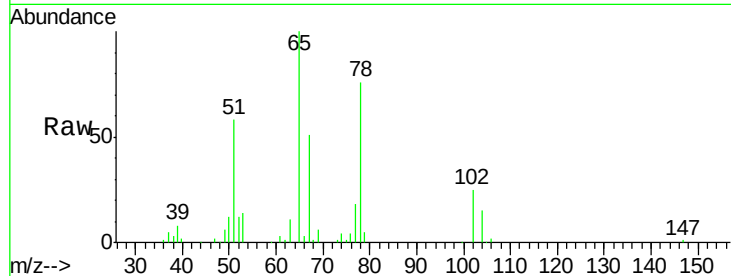




#33
 1,2-Dichloroethane-d4
 Concen: 9.107 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

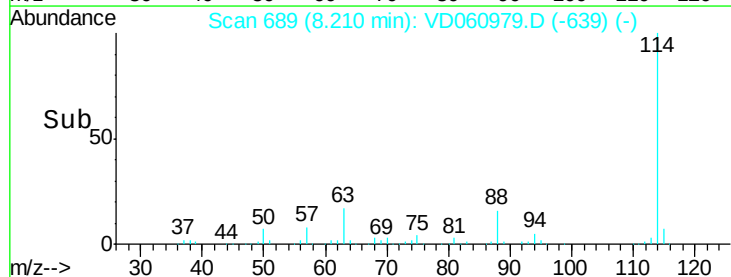
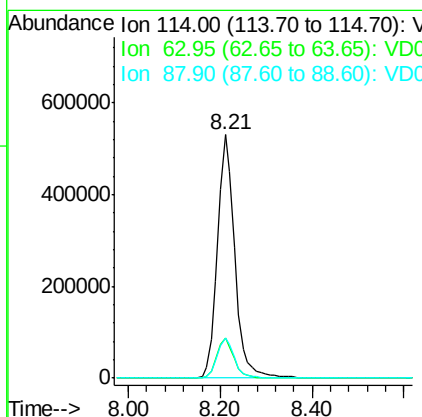
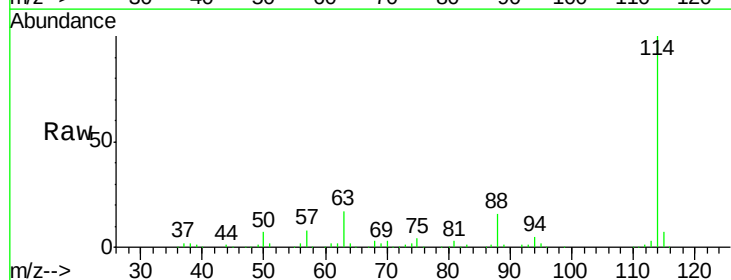
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

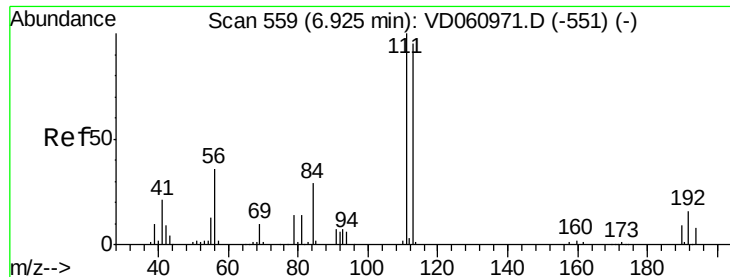
Tot Ion: 65 Resp: 326667
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion: 114 Resp: 1374892
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 31.4
 88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

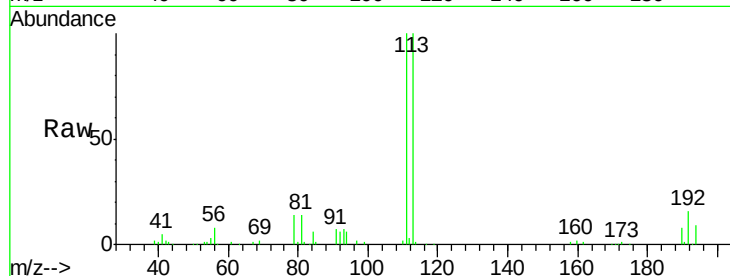
Tot Ion:113 Resp: 528558

Ion Ratio Lower Upper

113 100

111 100.0 84.2 126.4

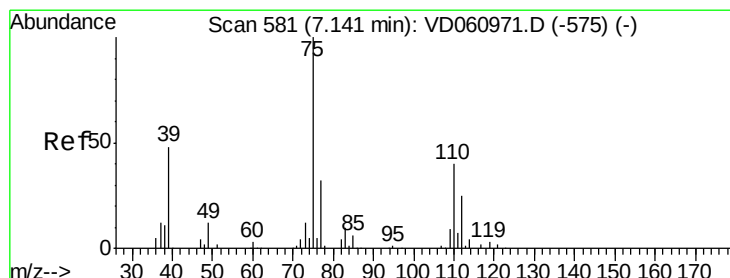
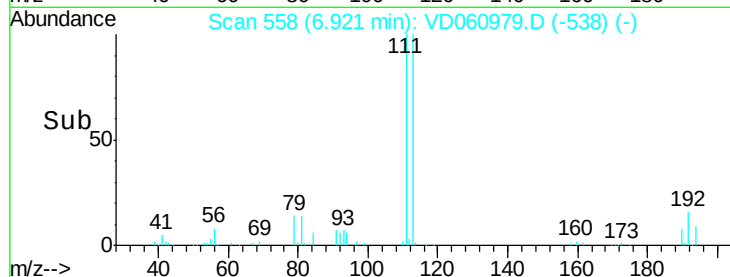
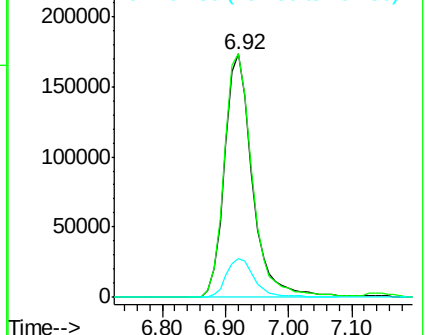
192 15.8 13.1 19.7



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: 9.689 ug/l

RT: 7.14 min Scan# 580

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

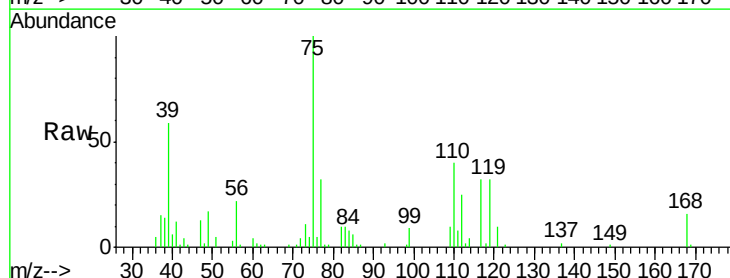
Tgt Ion: 75 Resp: 114825

Ion Ratio Lower Upper

75 100

110 40.4 19.7 59.1

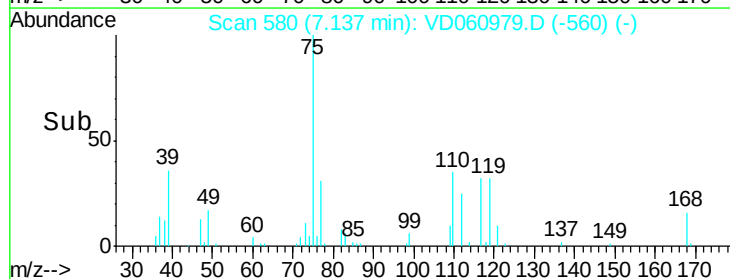
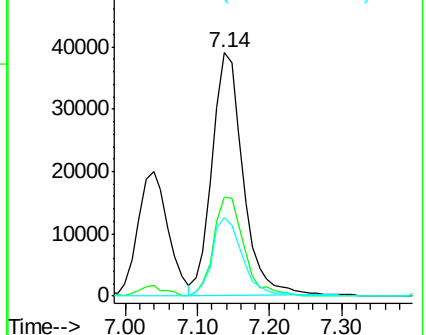
77 32.2 24.7 37.1

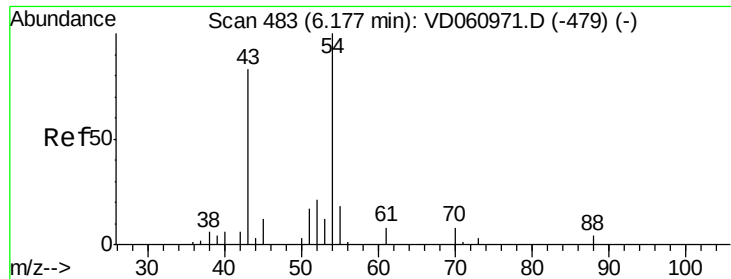


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

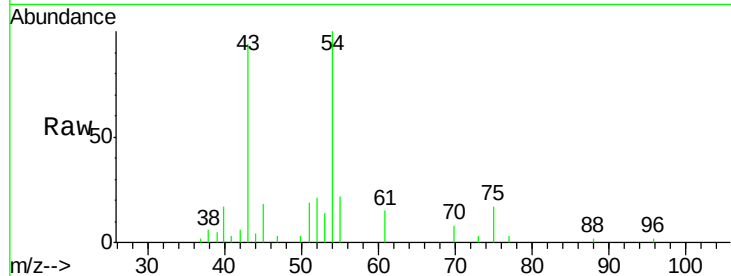




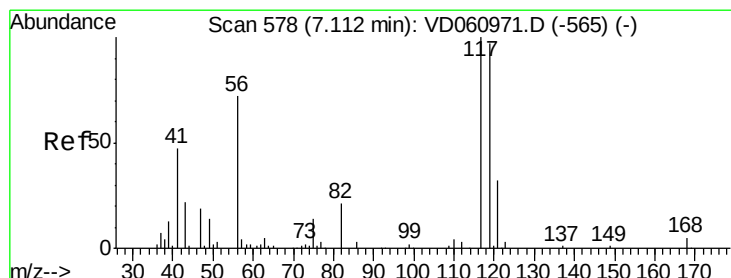
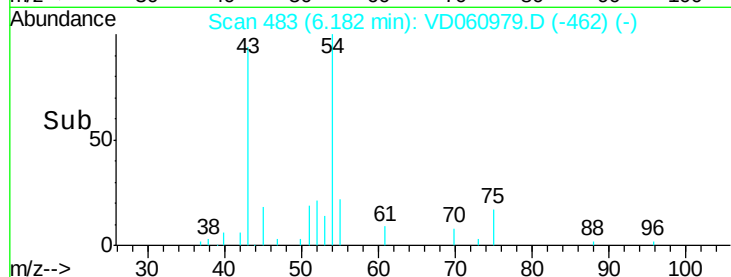
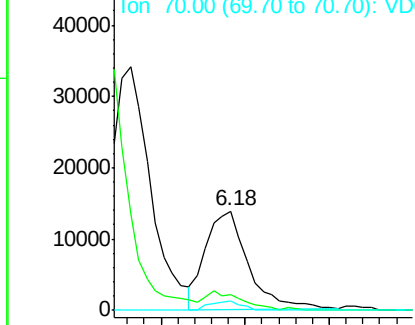
#37
Ethyl Acetate
Concen: 8.646 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 48083
Ion Ratio Lower Upper
43 100
61 15.4 13.7 20.5
70 8.8 7.1 10.7

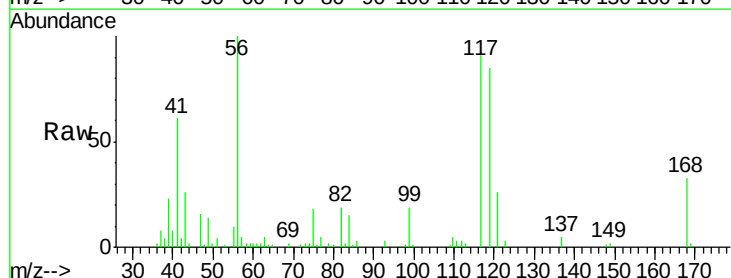


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

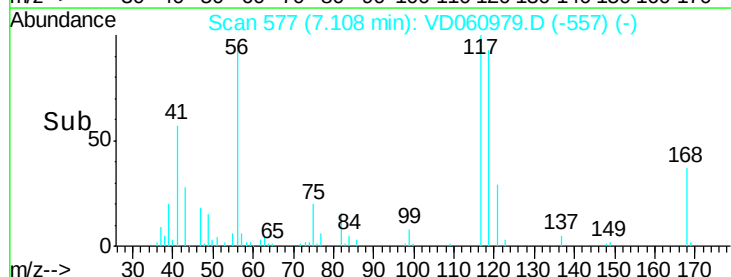
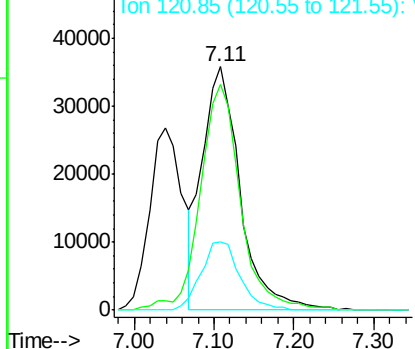


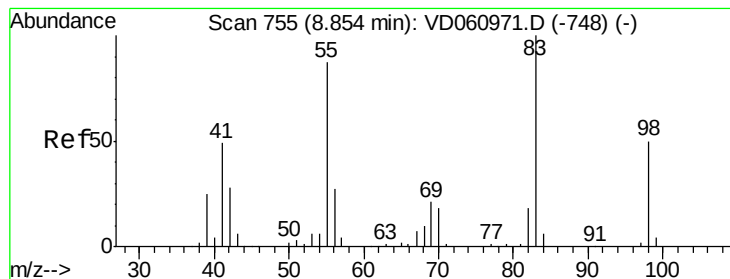
#38
Carbon Tetrachloride
Concen: 9.120 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 117 Resp: 119054
Ion Ratio Lower Upper
117 100
119 92.7 77.8 116.8
121 28.0 25.3 37.9



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

Methylvlcyclohexane

Concen: 8.533 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.01 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

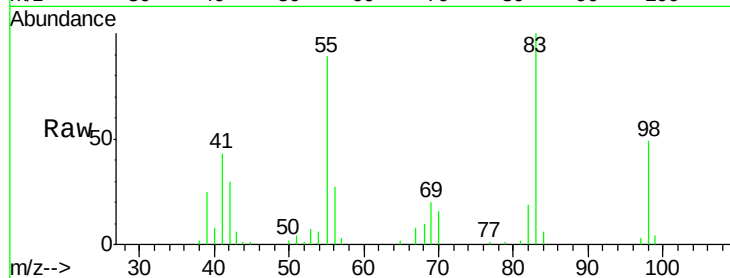
Tot Ion: 83 Resp: 104862

Ion Ratio Lower Upper

83 100

55 88.7 69.6 104.4

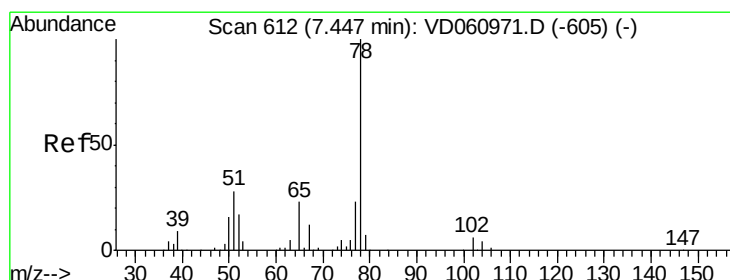
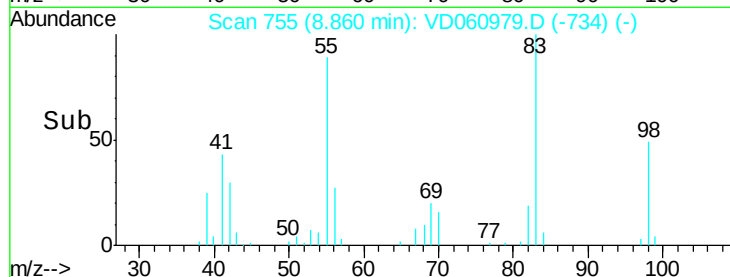
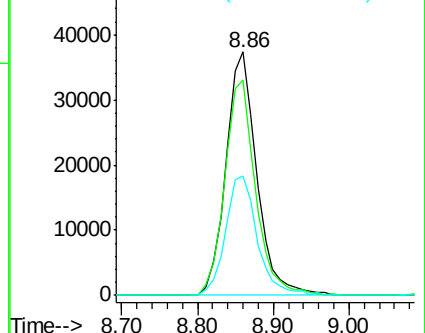
98 49.3 40.0 60.0



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: 8.828 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD060979.D

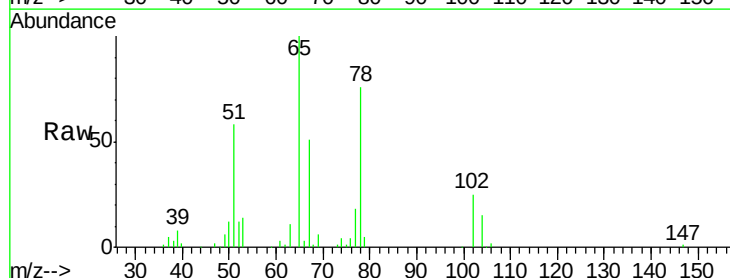
Acq: 8 Mar 2019 13:02

Tgt Ion: 78 Resp: 261420

Ion Ratio Lower Upper

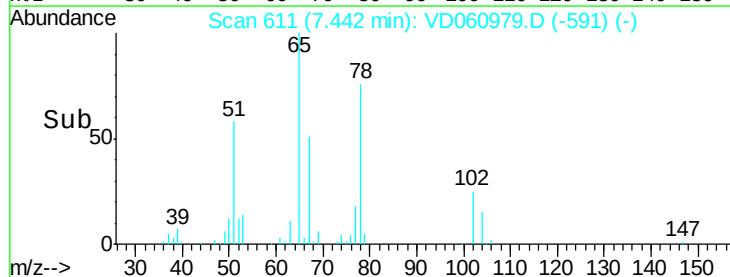
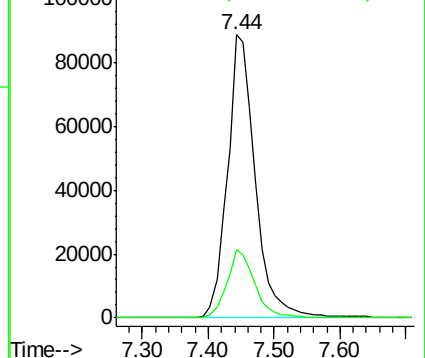
78 100

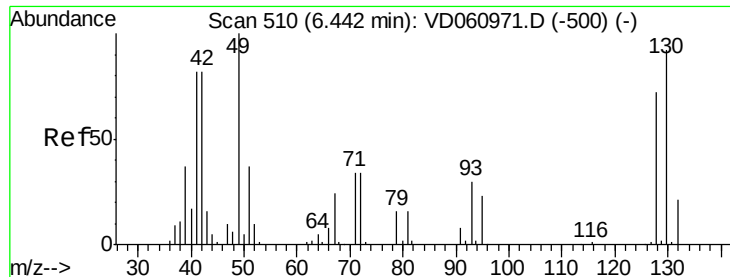
77 24.2 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

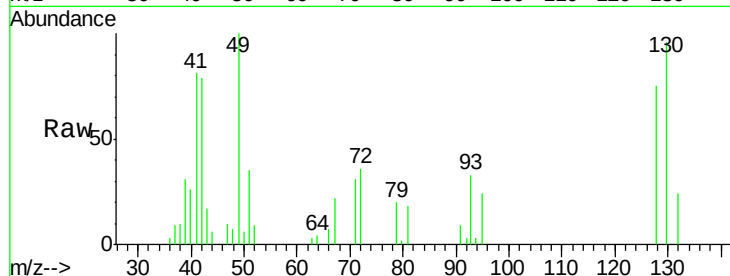




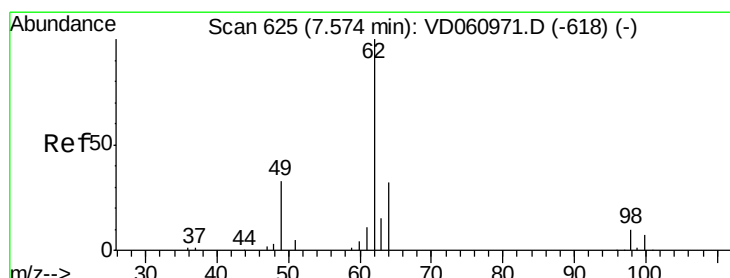
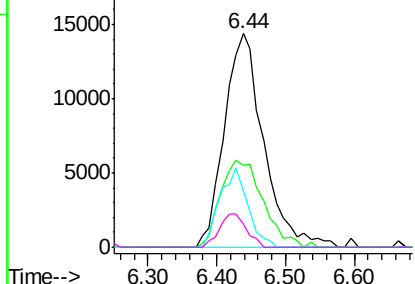
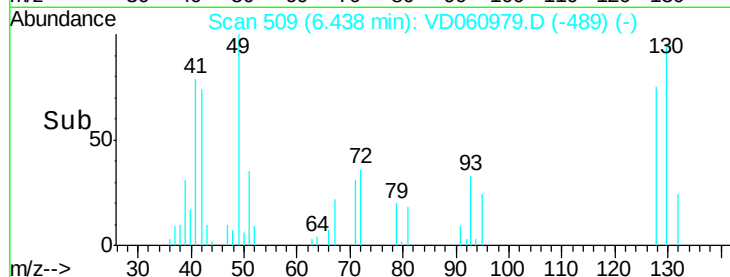
#41
Methacrylonitrile
Concen: 8.866 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:	41	Resp:	56717
Ion	Ratio	Lower	Upper
41	100		
39	38.2	35.7	53.5
67	26.6	23.0	34.6
52	11.1	9.2	13.8

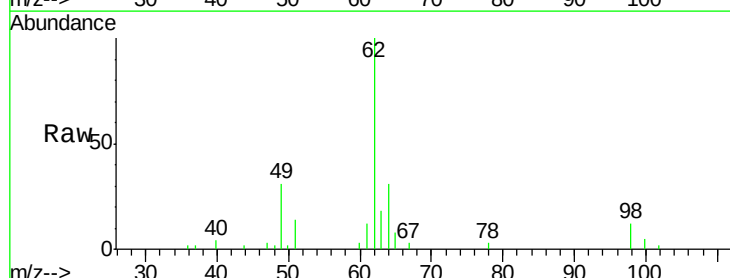


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

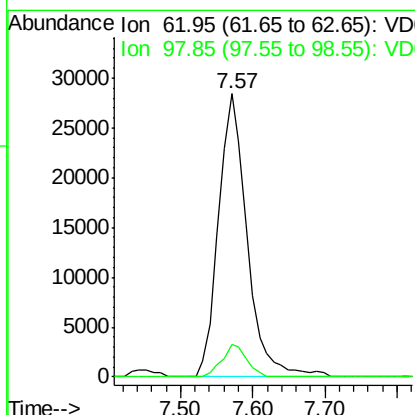
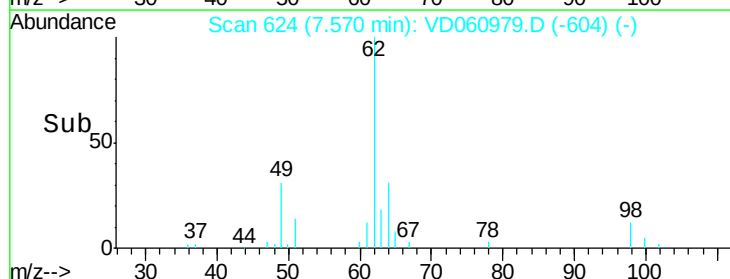


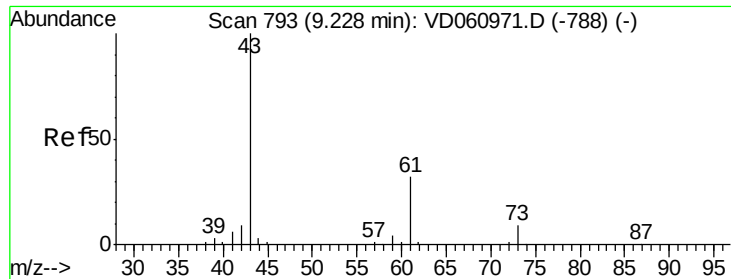
#42
1,2-Dichloroethane
Concen: 9.074 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion:	62	Resp:	77982
Ion	Ratio	Lower	Upper
62	100		
98	11.7	0.0	20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 8.326 ug/l

RT: 9.23 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

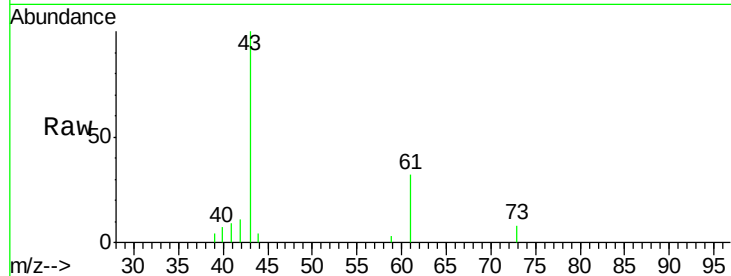
Tot Ion: 43 Resp: 64133

Ion Ratio Lower Upper

43 100

61 31.5 25.6 38.4

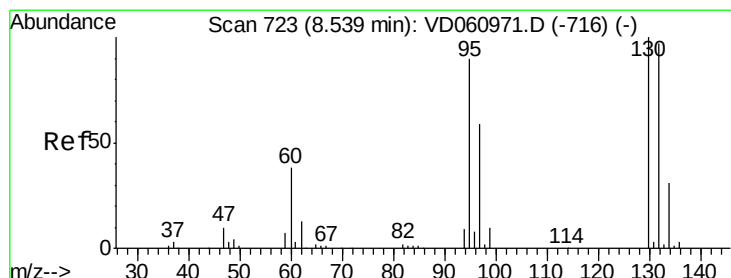
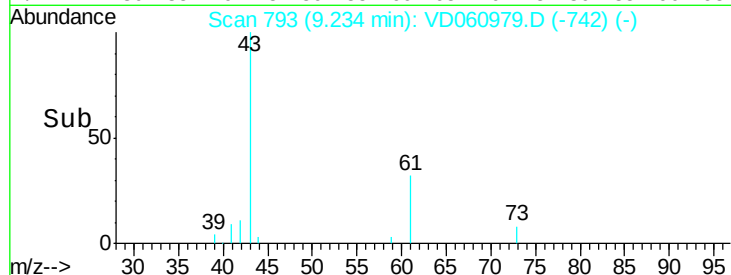
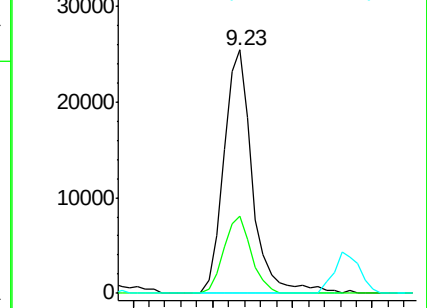
87 0.0 0.2 0.4#



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: 9.318 ug/l

RT: 8.54 min Scan# 722

Delta R.T. -0.00 min

Lab File: VD060979.D

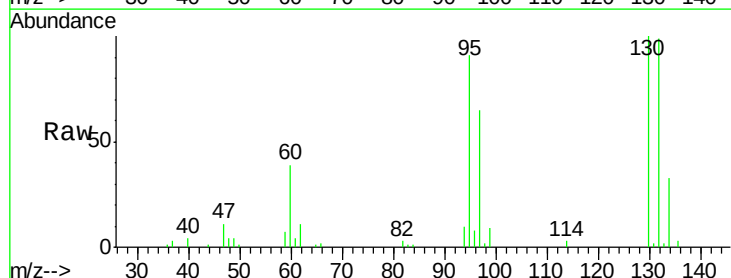
Acq: 8 Mar 2019 13:02

Tgt Ion:130 Resp: 95202

Ion Ratio Lower Upper

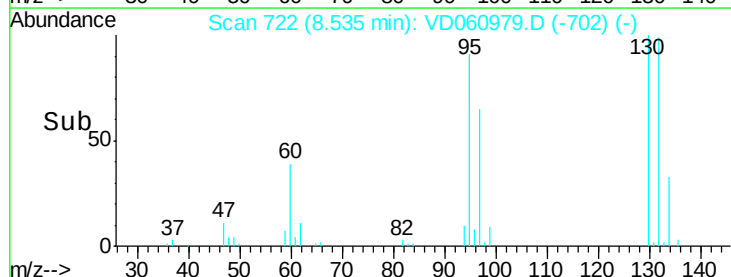
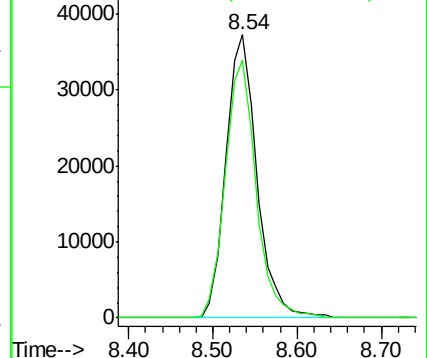
130 100

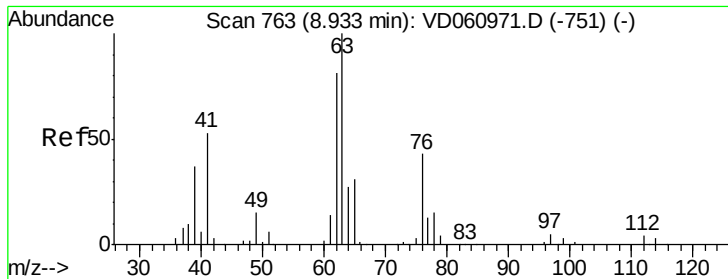
95 91.0 0.0 179.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 9.114 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

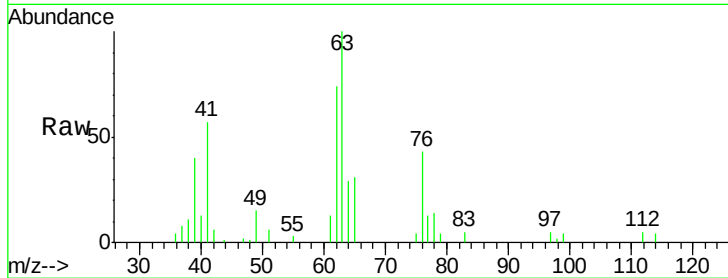
LOQ-SOIL-02-QT1-2019

Tot Ion: 63 Resp: 70909

Ion Ratio Lower Upper

63 100

65 30.9 24.8 37.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

30000

25000

20000

15000

10000

5000

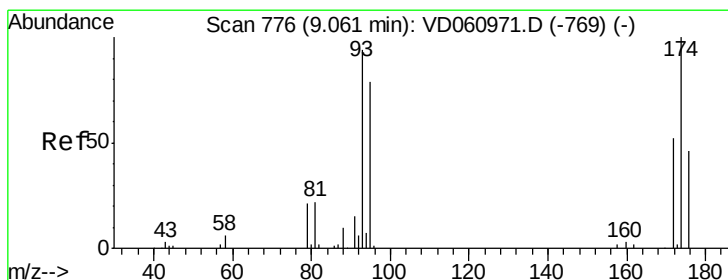
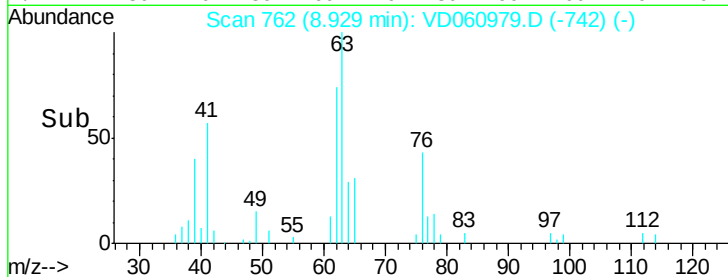
0

Time-->

8.80

8.90

9.00



#46

Dibromomethane

Concen: 8.762 ug/l

RT: 9.05 min Scan# 774

Delta R.T. -0.01 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

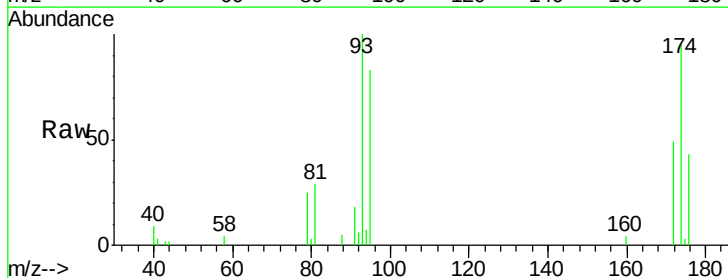
Tgt Ion: 93 Resp: 43240

Ion Ratio Lower Upper

93 100

95 82.6 67.4 101.0

174 95.1 85.4 128.0



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

20000

15000

10000

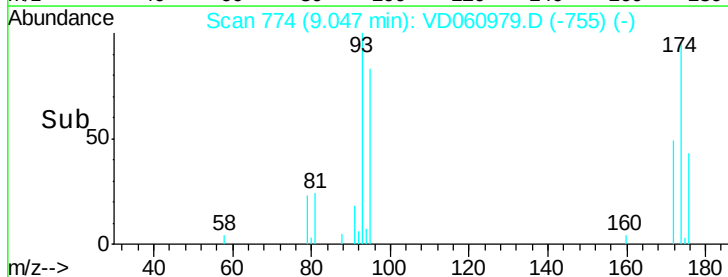
5000

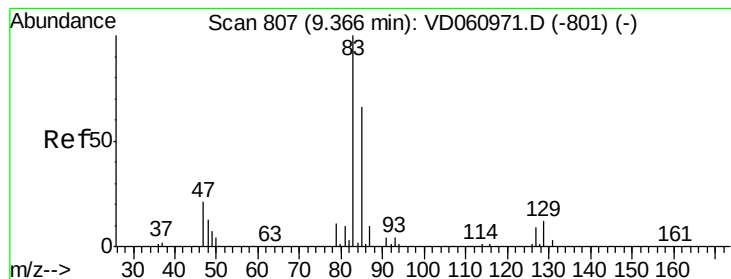
0

Time-->

9.00

9.10





#47

Bromodichloromethane

Concen: 9.123 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

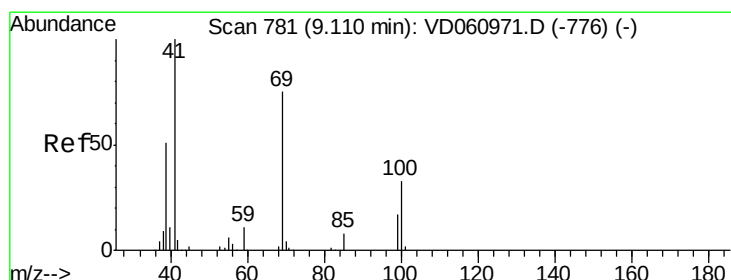
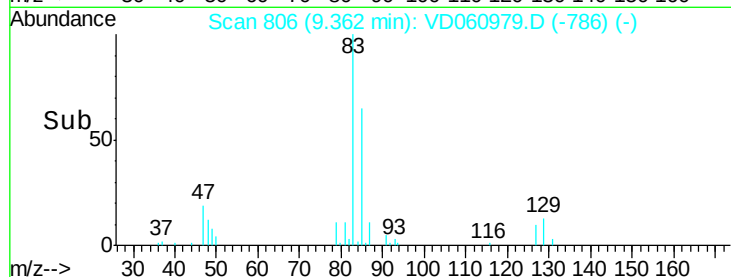
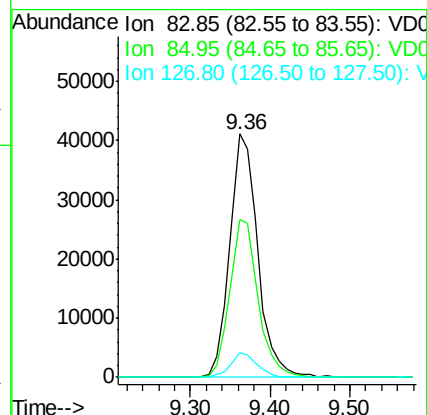
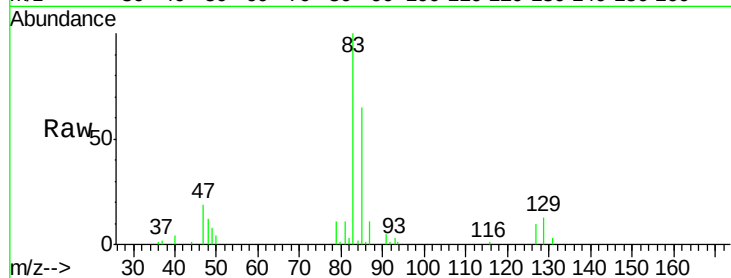
Tot Ion: 83 Resp: 101604

Ion Ratio Lower Upper

83 100

85 64.8 52.5 78.7

127 9.9 7.5 11.3



#48

Methyl methacrylate

Concen: 9.635 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

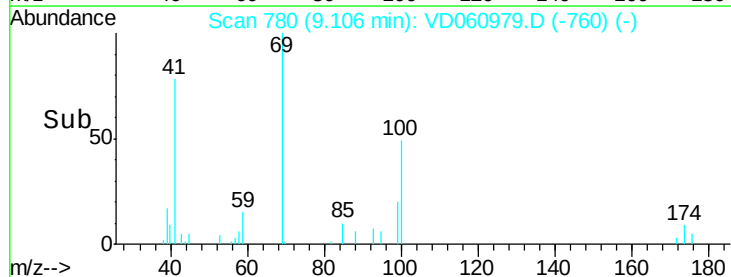
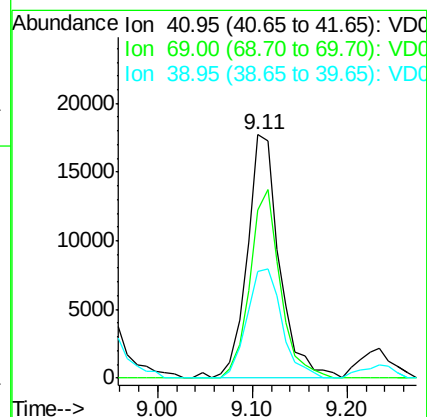
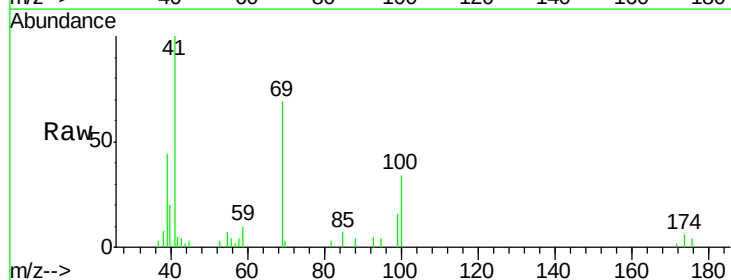
Tgt Ion: 41 Resp: 41788

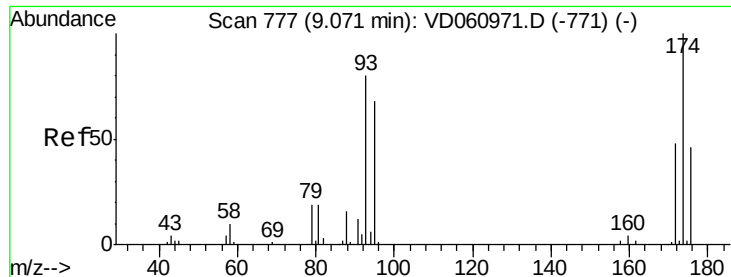
Ion Ratio Lower Upper

41 100

69 69.2 59.9 89.9

39 43.6 40.9 61.3





#49

1,4-Dioxane

Concen: 173.666 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

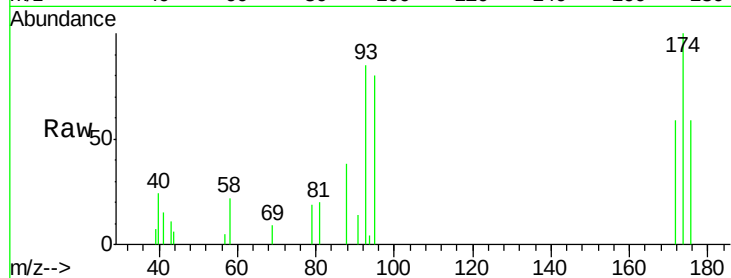
Tot Ion: 88 Resp: 7616

Ion Ratio Lower Upper

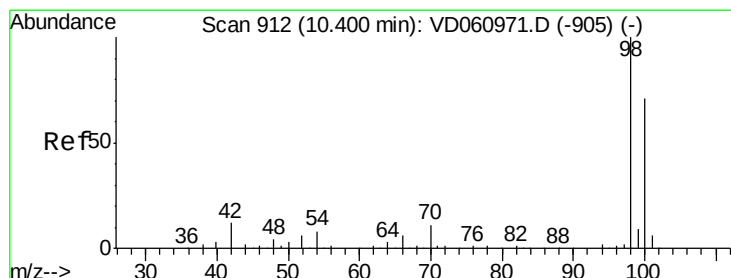
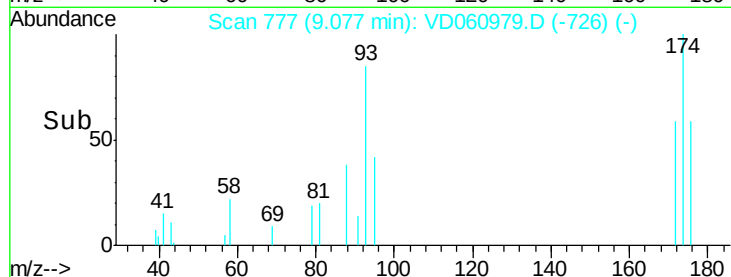
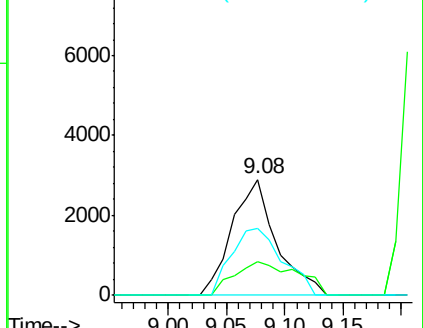
88 100

43 28.7 21.0 31.6

58 58.1 48.6 72.8



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: 173.666 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD060979.D

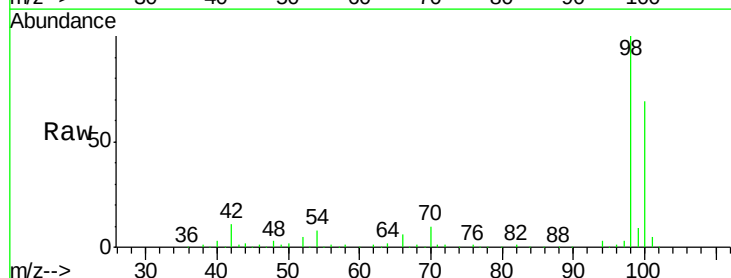
Acq: 8 Mar 2019 13:02

Tgt Ion: 98 Resp: 1208726

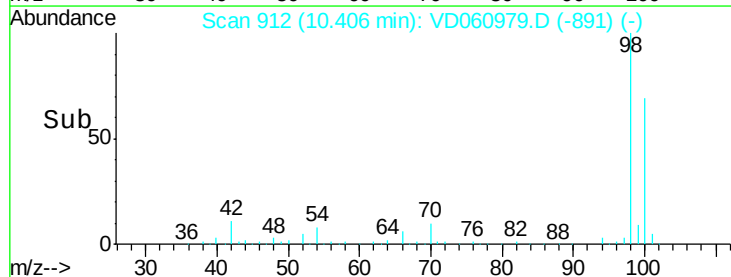
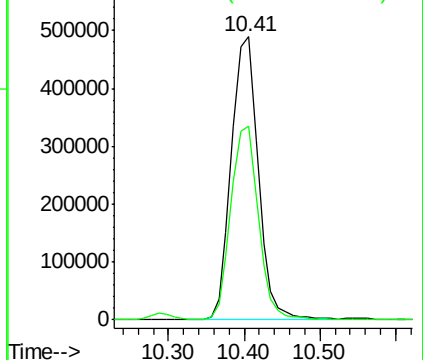
Ion Ratio Lower Upper

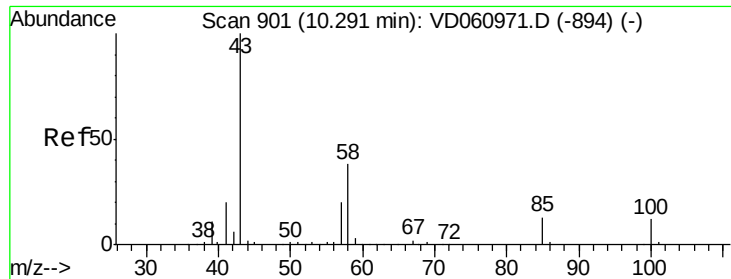
98 100

100 68.7 57.4 86.2



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: 44.816 ug/l

RT: 10.29 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

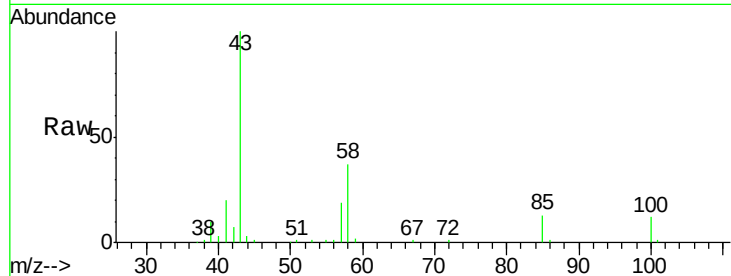
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 211483

Ion Ratio Lower Upper

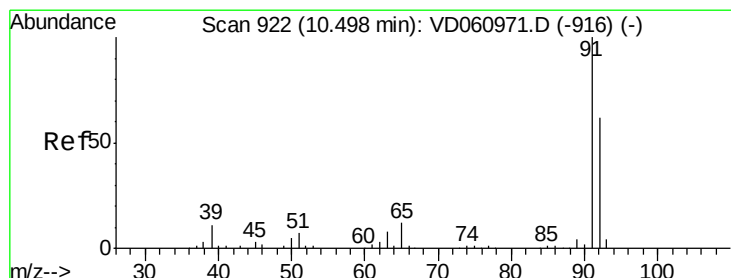
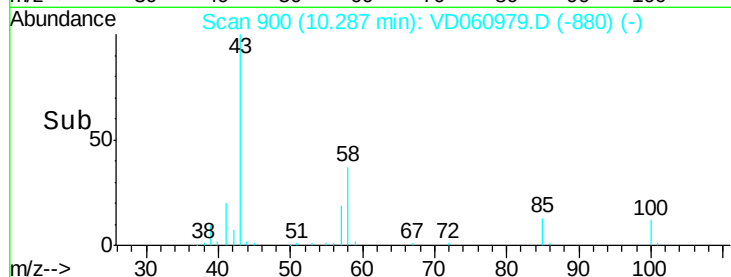
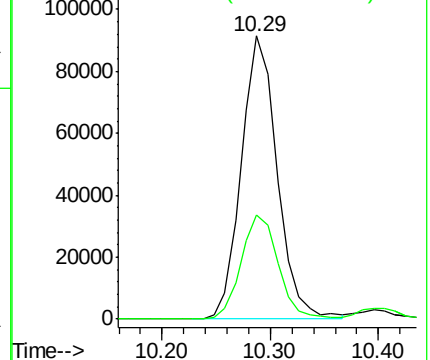
43 100

58 37.0 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 10.042 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.00 min

Lab File: VD060979.D

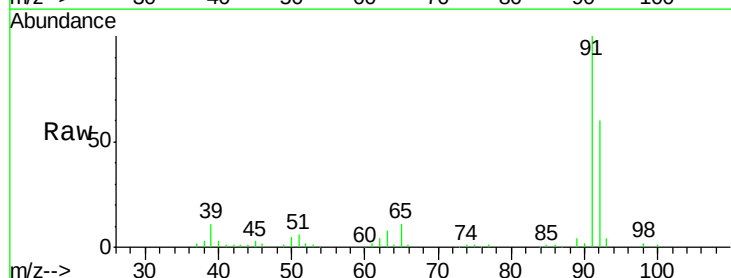
Acq: 8 Mar 2019 13:02

Tgt Ion: 92 Resp: 184922

Ion Ratio Lower Upper

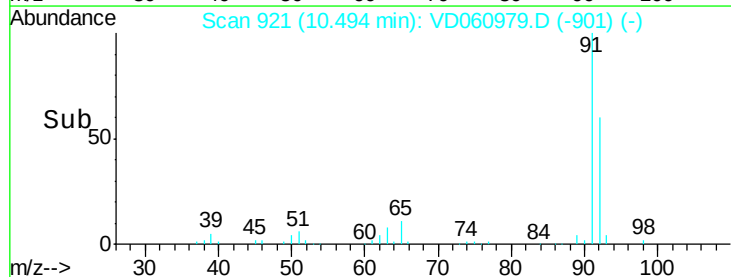
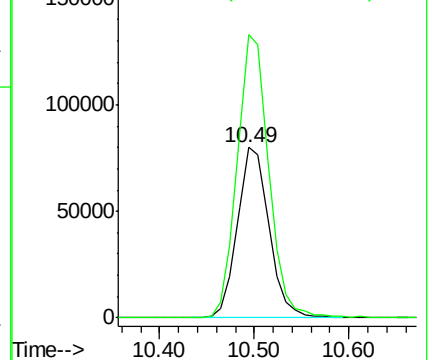
92 100

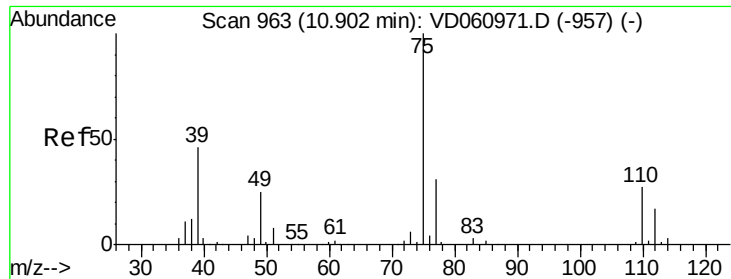
91 166.2 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

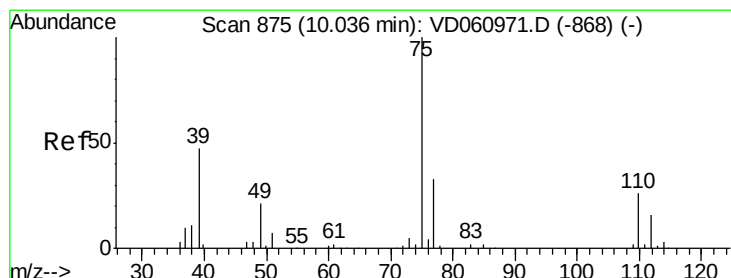
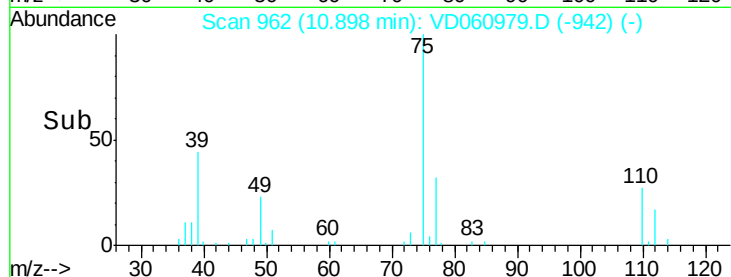
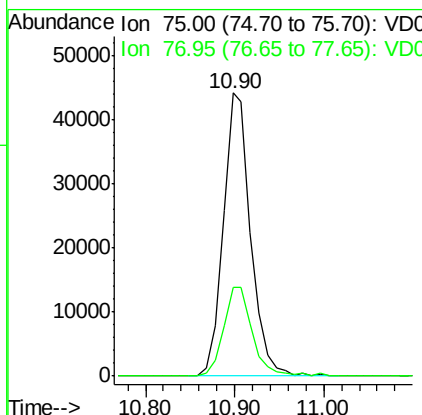
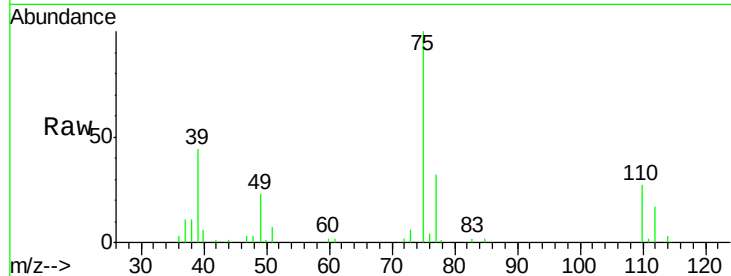




#53
 t-1,3-Dichloropropene
 Concen: 9.326 ug/l
 RT: 10.90 min Scan# 962
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

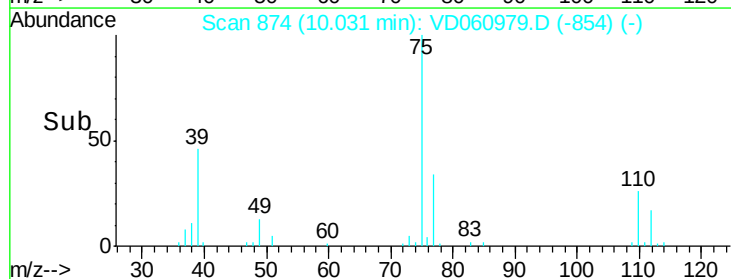
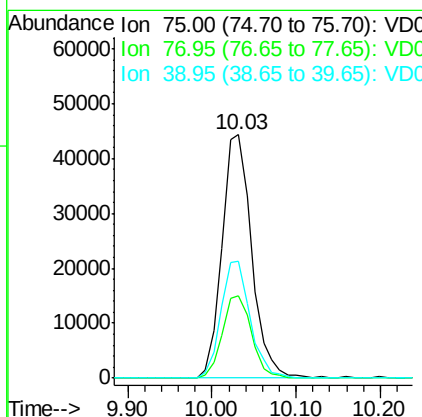
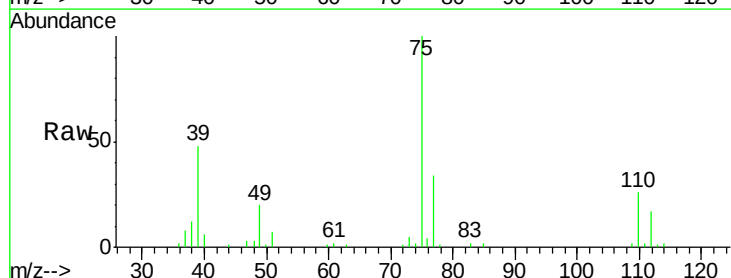
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

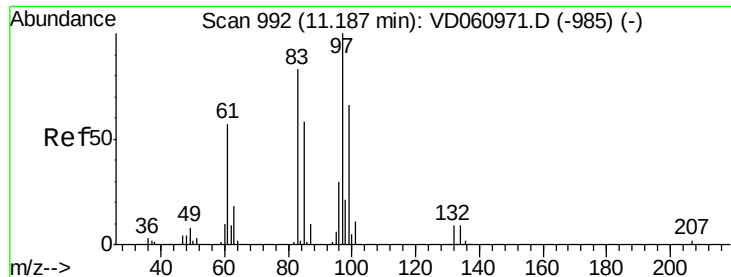
Tot Ion: 75 Resp: 94968
 Ion Ratio Lower Upper
 75 100
 77 31.6 24.7 37.1



#54
 cis-1,3-Dichloropropene
 Concen: 8.863 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion: 75 Resp: 108442
 Ion Ratio Lower Upper
 75 100
 77 33.7 26.2 39.4
 39 47.8 37.8 56.8

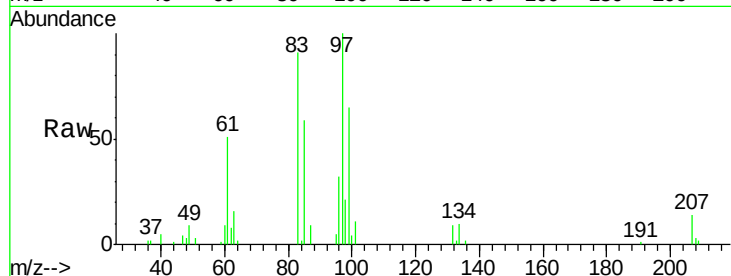




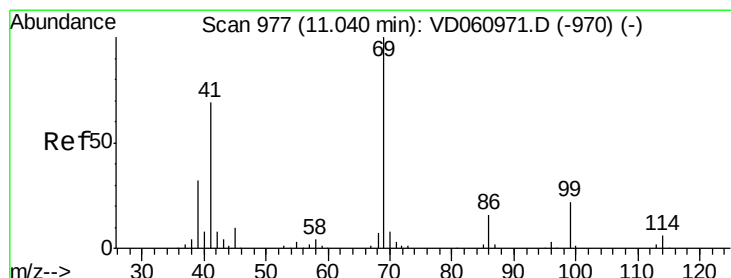
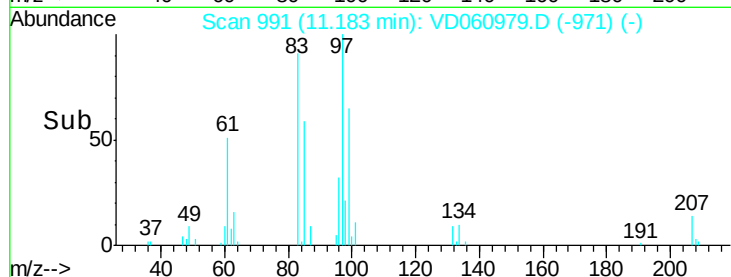
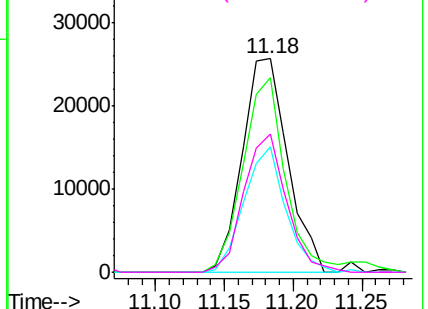
#55
1,1,2-Trichloroethane
Concen: 9.616 ug/l
RT: 11.18 min Scan# 991
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 97 Resp: 58973
Ion Ratio Lower Upper
97 100
83 91.2 66.6 100.0
85 59.0 46.4 69.6
99 64.5 52.4 78.6

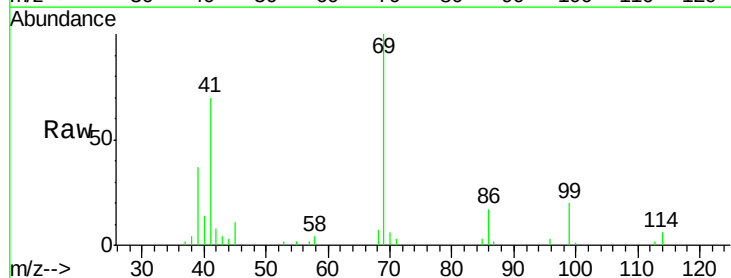


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

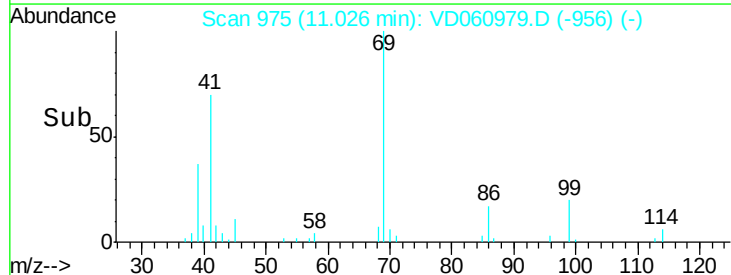
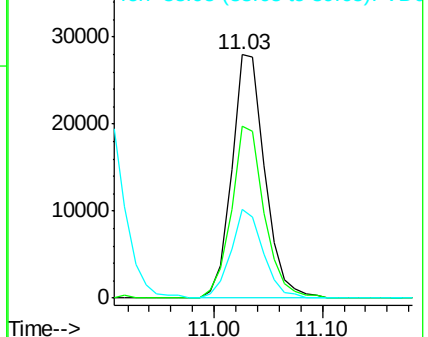


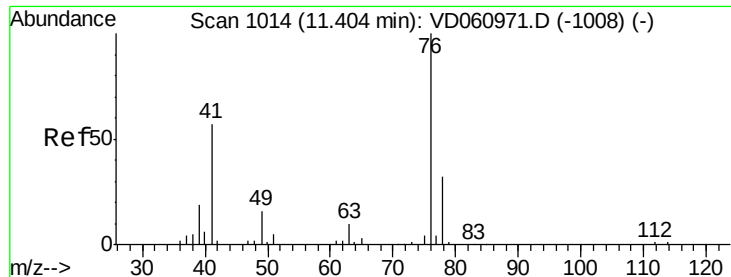
#56
Ethyl methacrylate
Concen: 9.259 ug/l
RT: 11.03 min Scan# 975
Delta R.T. -0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 69 Resp: 59433
Ion Ratio Lower Upper
69 100
41 70.4 55.5 83.3
39 36.6 26.2 39.2



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC

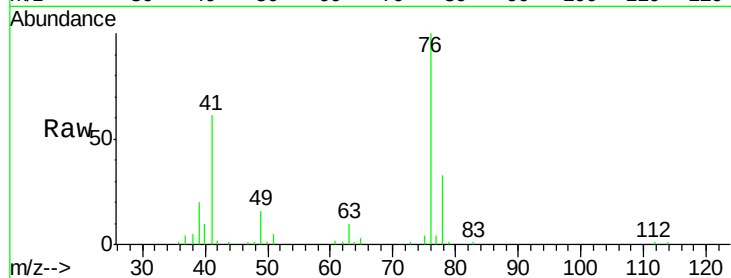




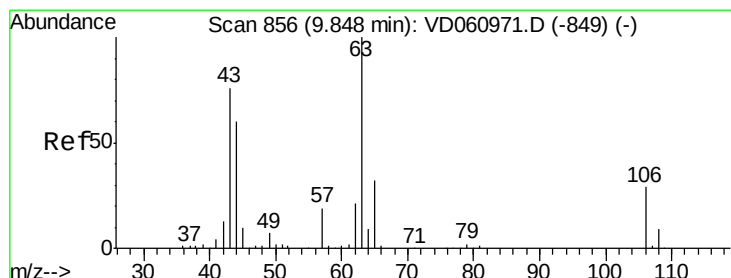
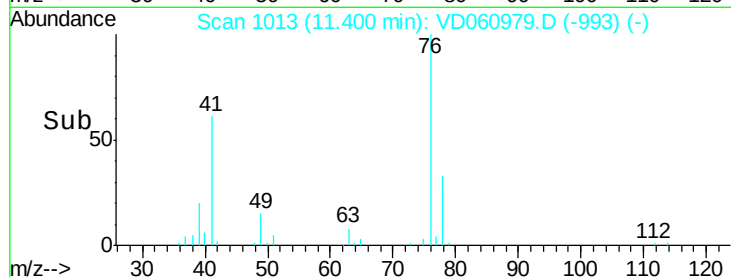
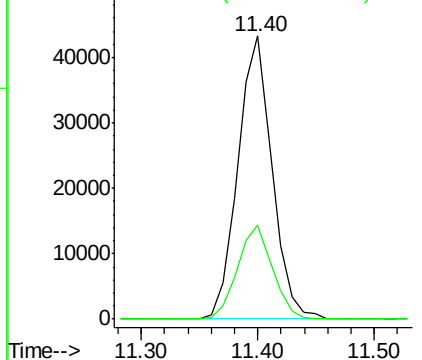
#57
 1,3-Dichloropropane
 Concen: 9.549 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 87511
 Ion Ratio Lower Upper
 76 100
 78 33.0 25.4 38.0

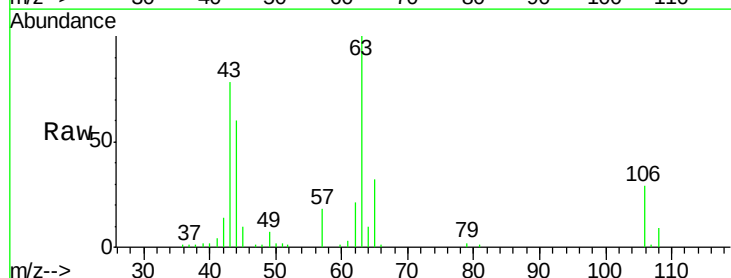


Abundance Ion 75.95 (75.65 to 76.65): VDC
 Ion 77.95 (77.65 to 78.65): VDC

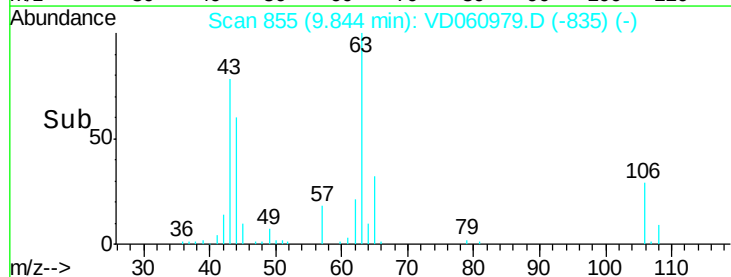
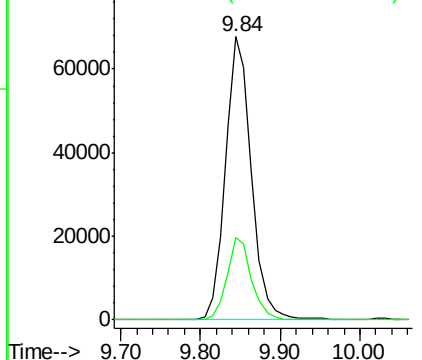


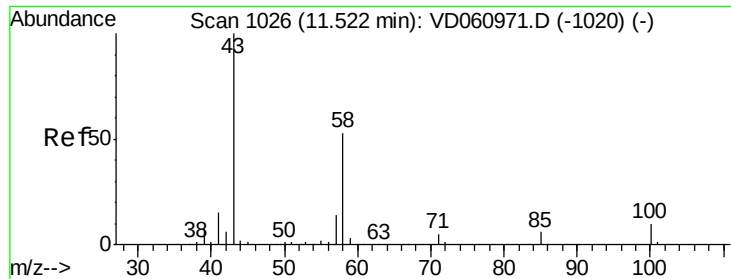
#58
 2-Chloroethyl Vinyl ether
 Concen: 45.407 ug/l
 RT: 9.84 min Scan# 855
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion: 63 Resp: 154279
 Ion Ratio Lower Upper
 63 100
 106 28.9 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 105.95 (105.65 to 106.65): V

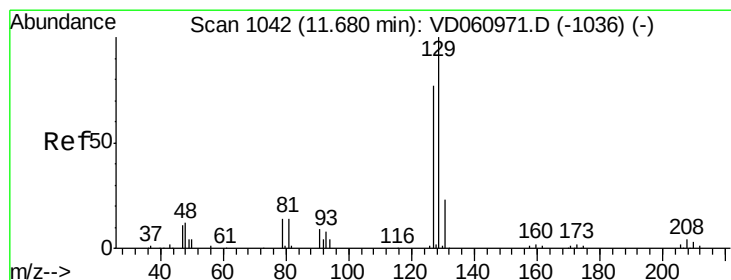
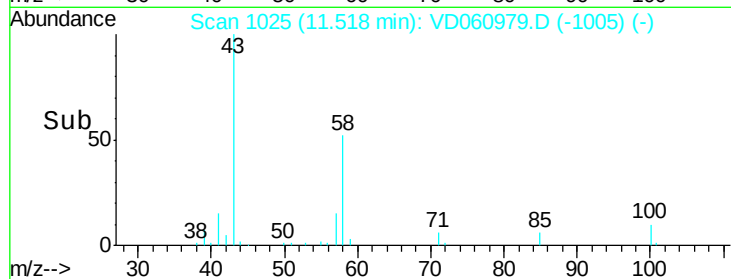
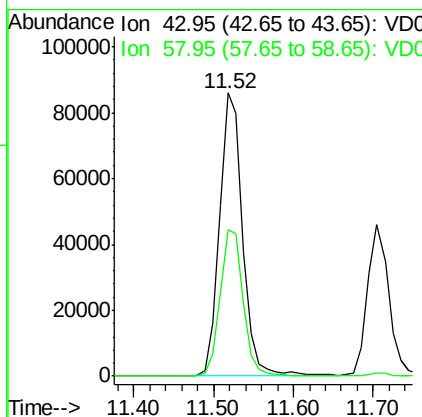
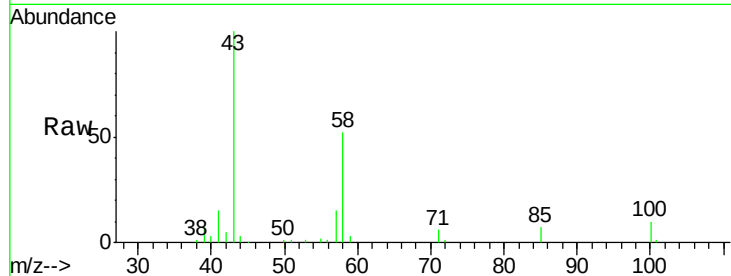




#59
2-Hexanone
Concen: 51.064 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

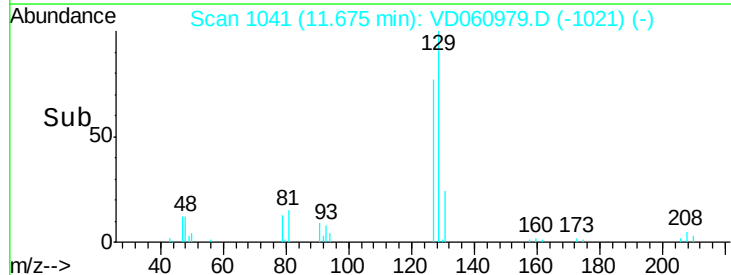
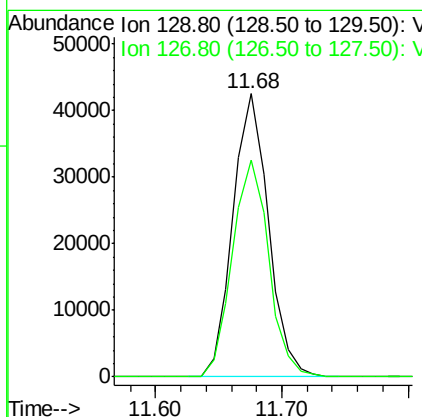
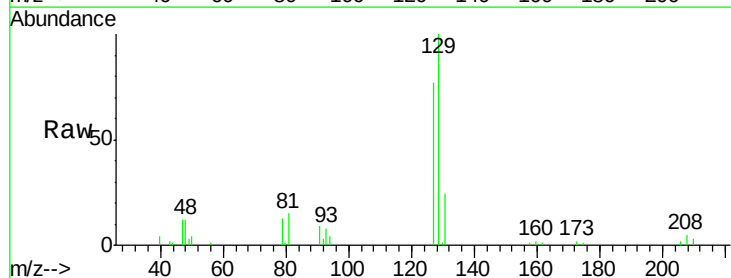
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

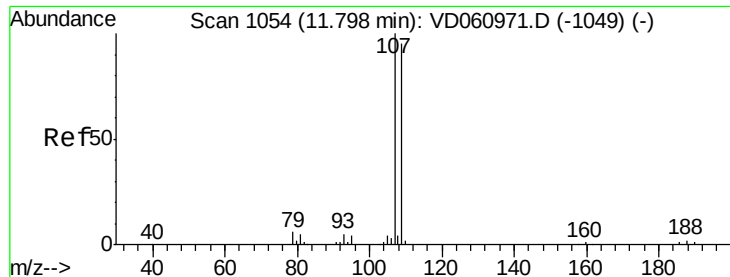
Tot Ion: 43 Resp: 176266
Ion Ratio Lower Upper
43 100
58 51.5 26.5 79.5



#60
Dibromochloromethane
Concen: 9.198 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 129 Resp: 83017
Ion Ratio Lower Upper
129 100
127 76.6 38.3 114.9





#61

1,2-Dibromoethane

Concen: 9.114 ug/l

RT: 11.79 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

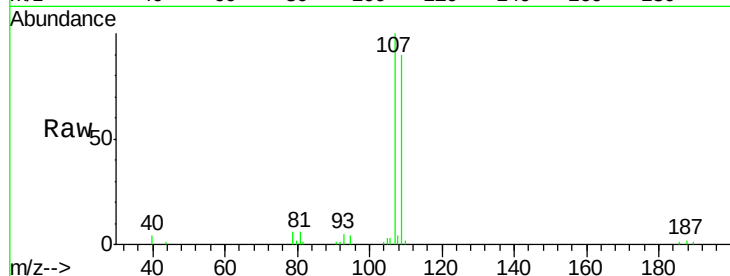
LOQ-SOIL-02-QT1-2019

Tot Ion:107 Resp: 65019

Ion Ratio Lower Upper

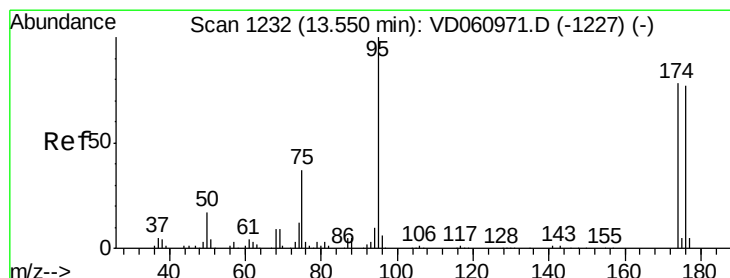
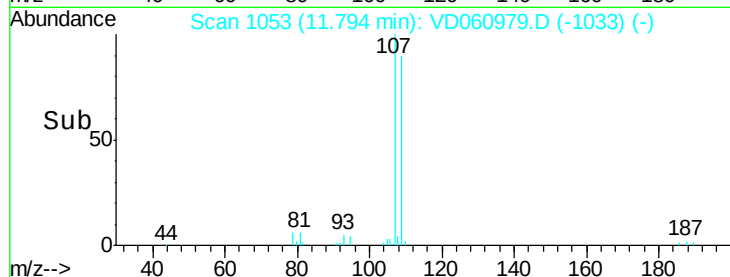
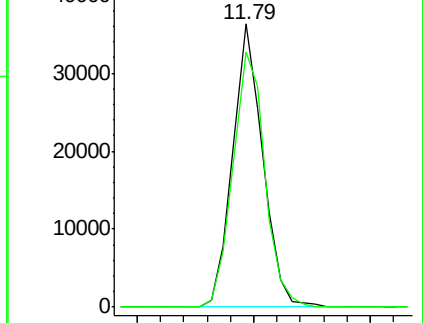
107 100

109 90.3 75.6 113.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 9.114 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

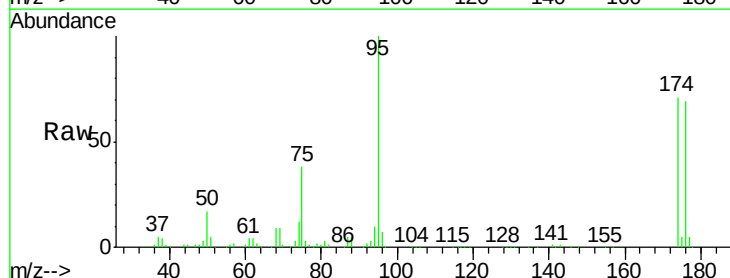
Tgt Ion: 95 Resp: 494915

Ion Ratio Lower Upper

95 100

174 71.3 0.0 155.6

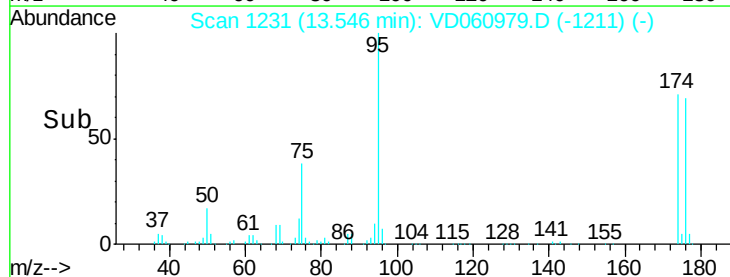
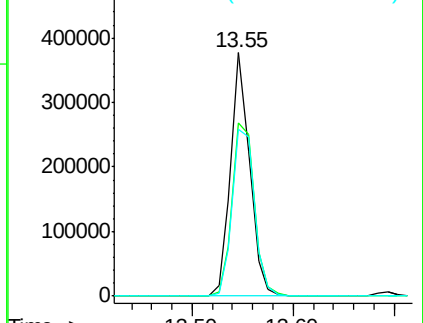
176 68.7 0.0 153.8

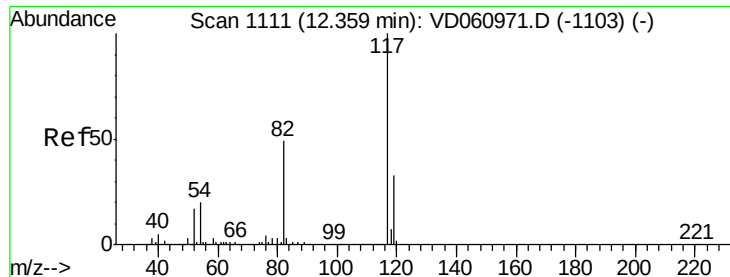


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

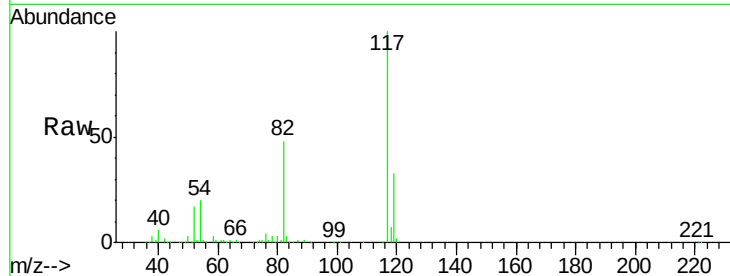




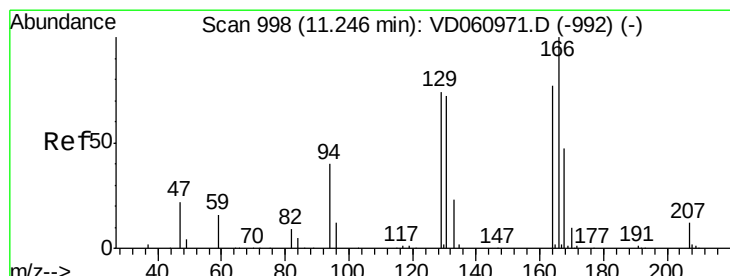
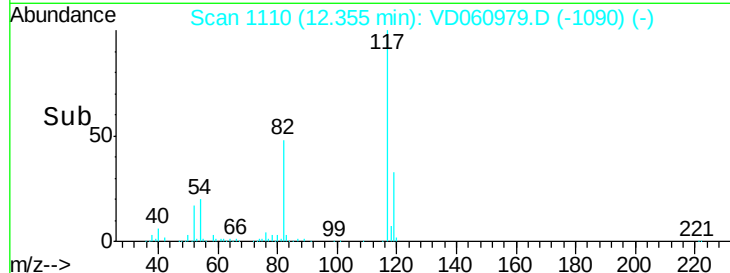
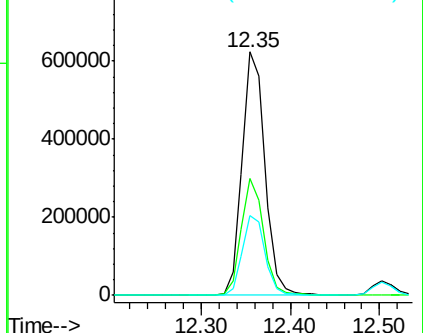
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:117 Resp: 1107907
Ion Ratio Lower Upper
117 100
82 47.9 38.9 58.3
119 32.8 26.6 39.8

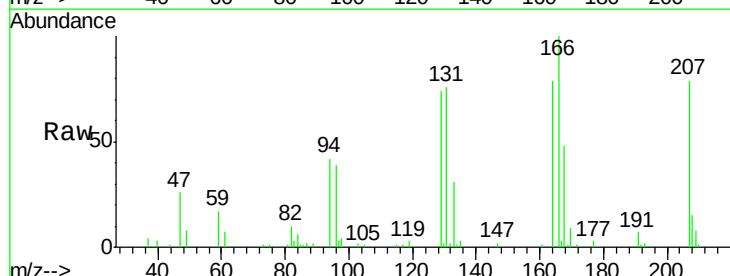


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

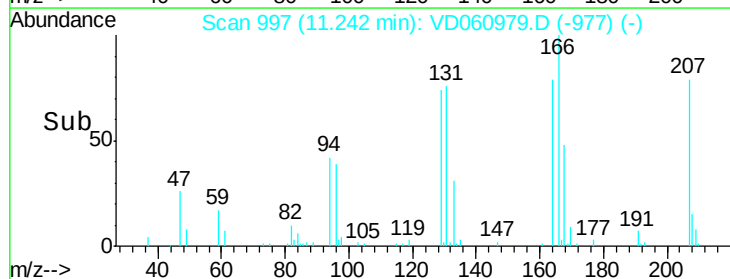
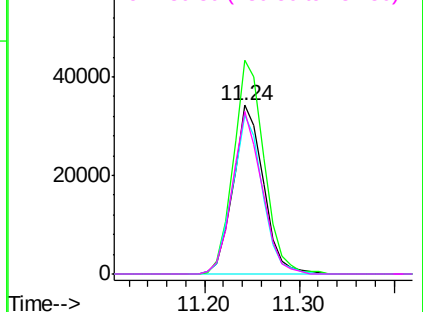


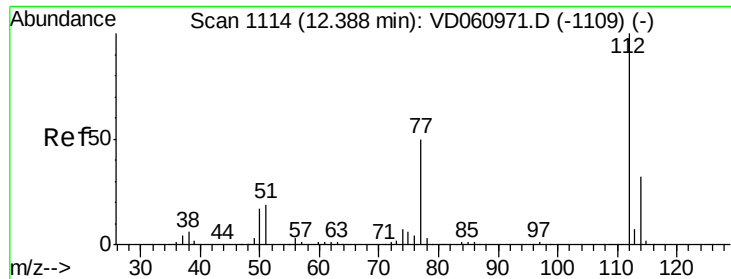
#64
Tetrachloroethene
Concen: 10.085 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion:164 Resp: 75422
Ion Ratio Lower Upper
164 100
166 126.8 103.4 155.0
129 94.0 76.9 115.3
131 96.3 74.4 111.6



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

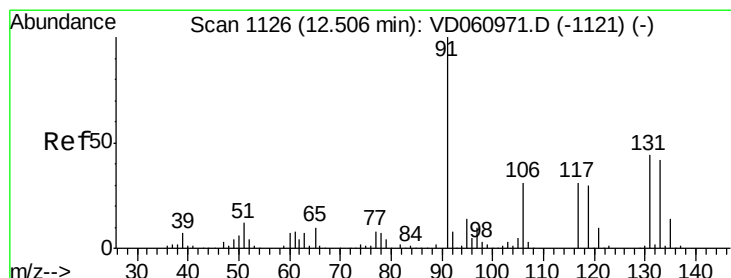
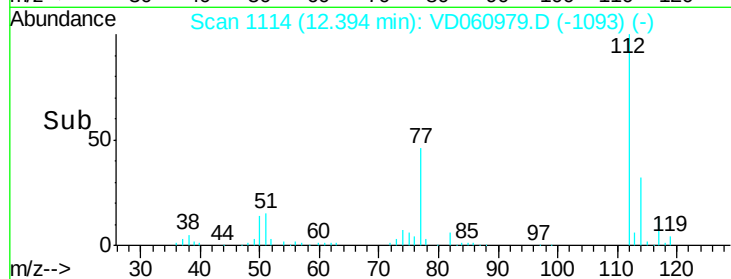
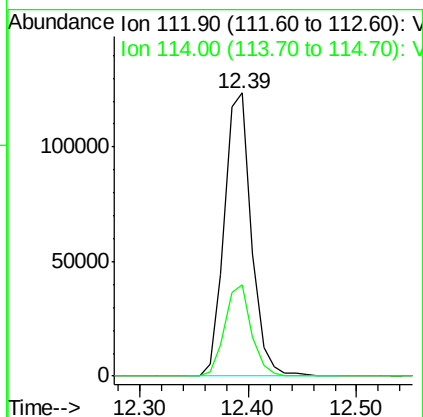
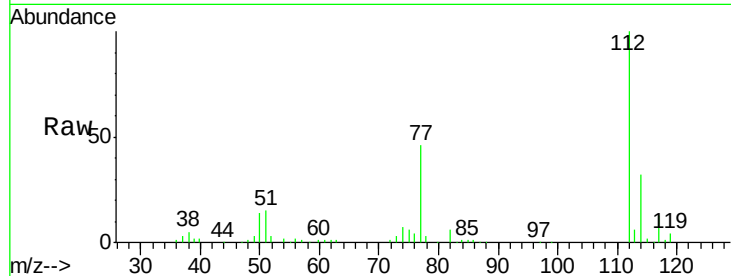




#65
Chlorobenzene
Concen: 9.903 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

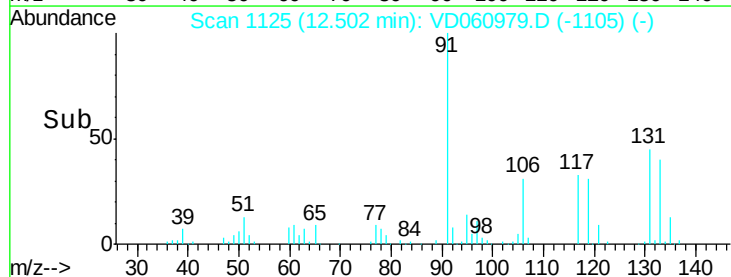
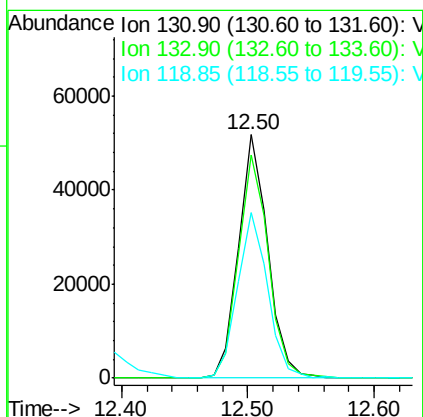
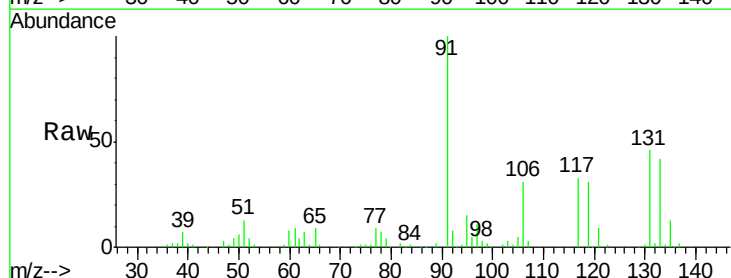
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

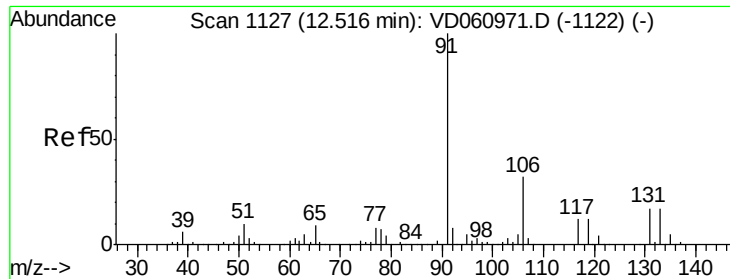
Tot Ion:112 Resp: 215093
Ion Ratio Lower Upper
112 100
114 32.3 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 10.716 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion:131 Resp: 82965
Ion Ratio Lower Upper
131 100
133 91.8 47.8 143.3
119 67.8 34.3 102.9

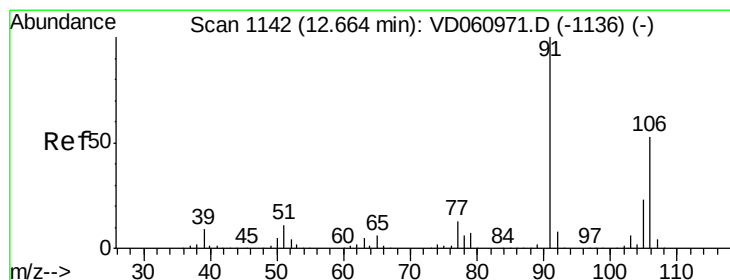
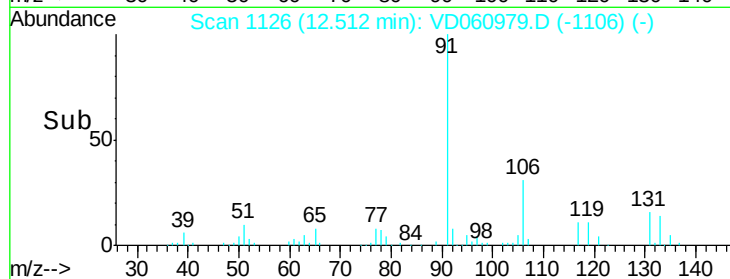
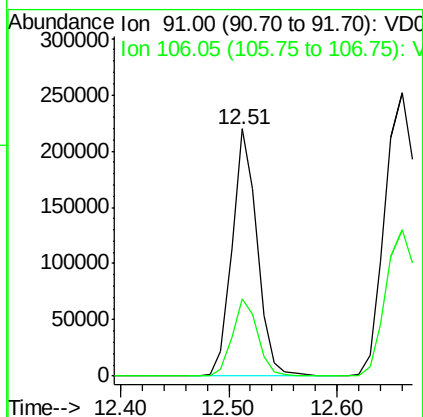
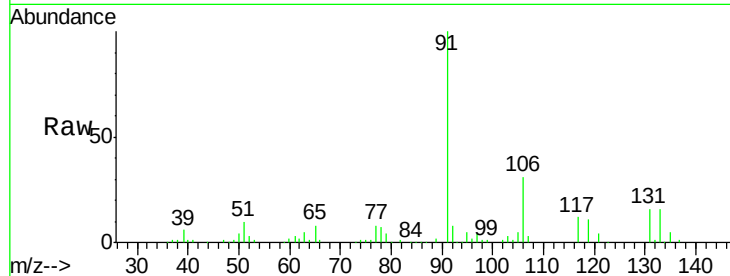




#67
Ethyl Benzene
Concen: 10.887 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

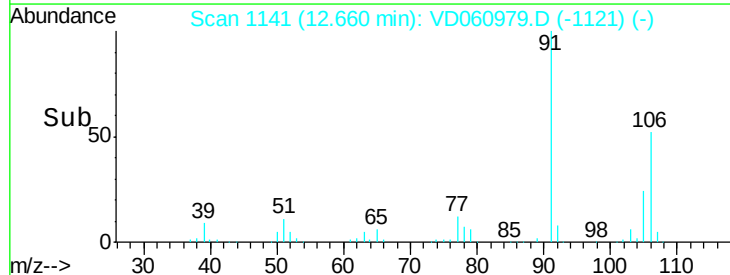
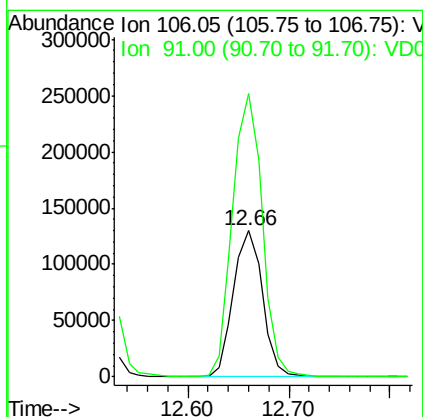
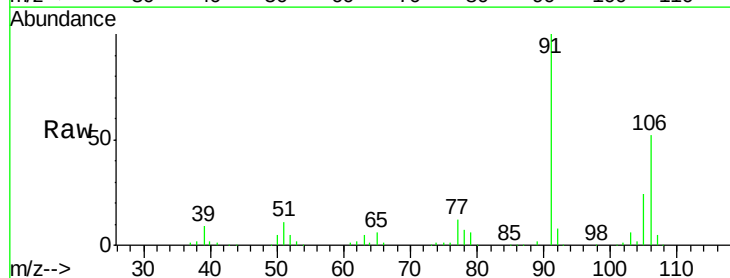
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

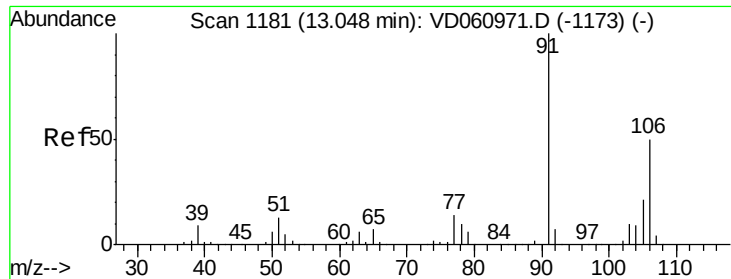
Tot Ion: 91 Resp: 352043
Ion Ratio Lower Upper
91 100
106 31.2 25.7 38.5



#68
m/p-Xylenes
Concen: 20.666 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion: 106 Resp: 262275
Ion Ratio Lower Upper
106 100
91 193.5 152.0 228.0

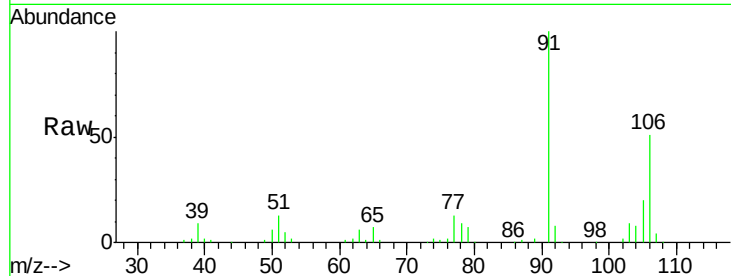




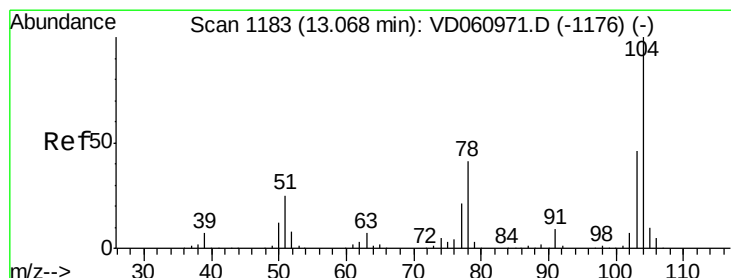
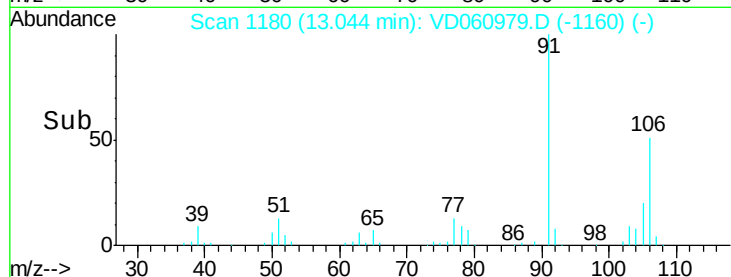
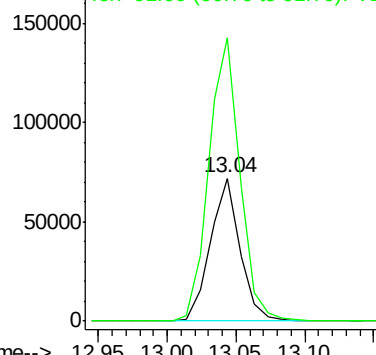
#69
o-Xylene
Concen: 8.668 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:106 Resp: 108134
Ion Ratio Lower Upper
106 100
91 197.9 99.8 299.3

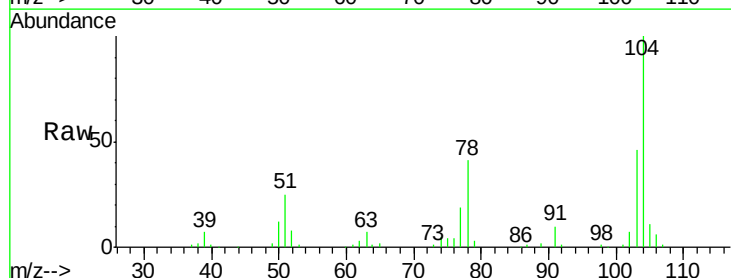


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

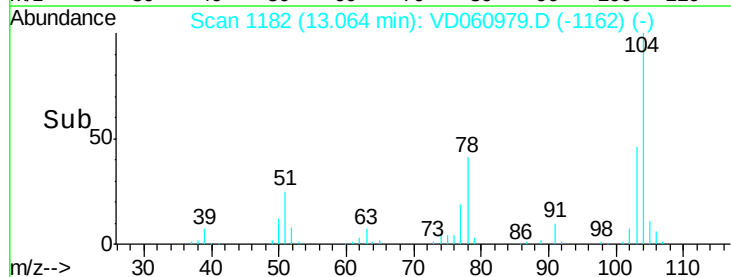
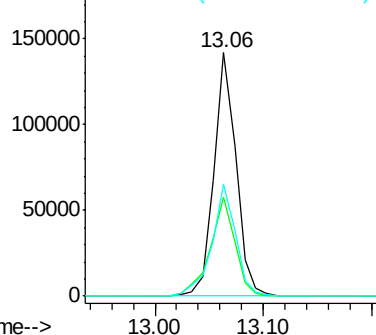


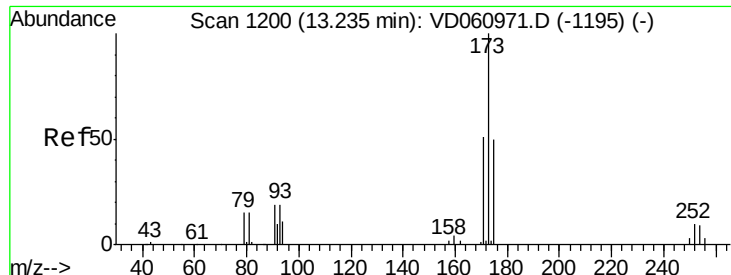
#70
Styrene
Concen: 9.862 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion:104 Resp: 200897
Ion Ratio Lower Upper
104 100
78 40.7 33.0 49.4
103 46.1 37.1 55.7



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





#71

Bromoform

Concen: 9.801 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

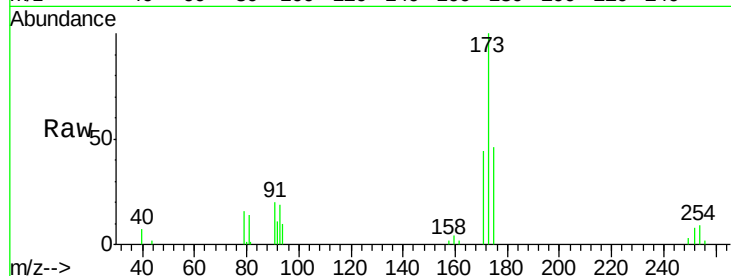
Tot Ion:173 Resp: 48950

Ion Ratio Lower Upper

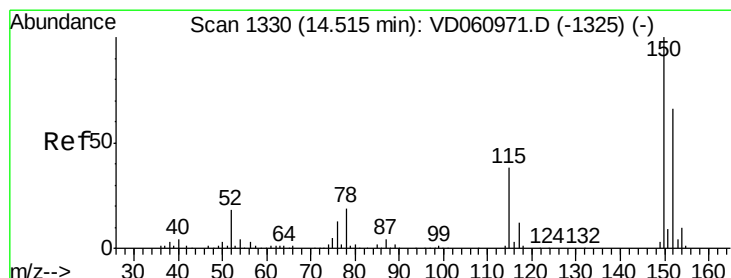
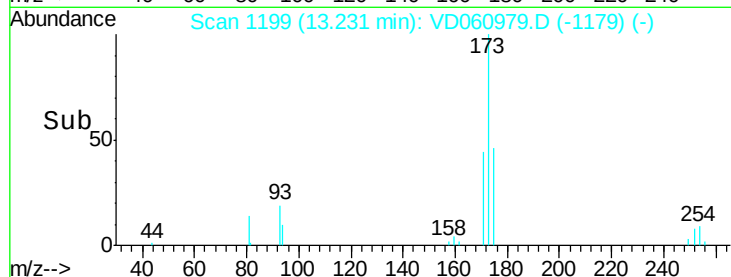
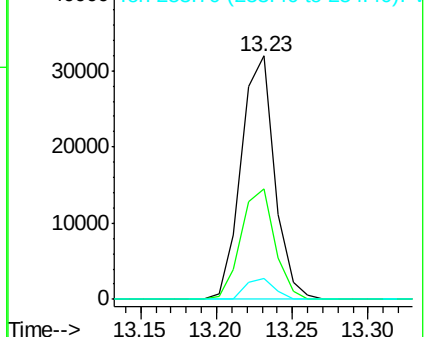
173 100

175 45.6 24.9 74.8

254 8.6 7.3 10.9



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: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

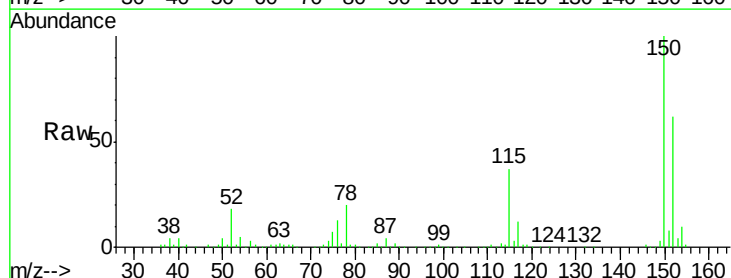
Tgt Ion:152 Resp: 483822

Ion Ratio Lower Upper

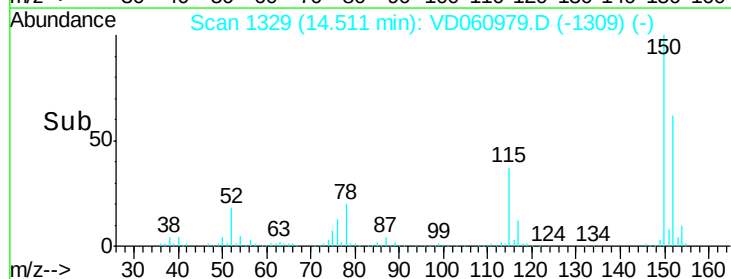
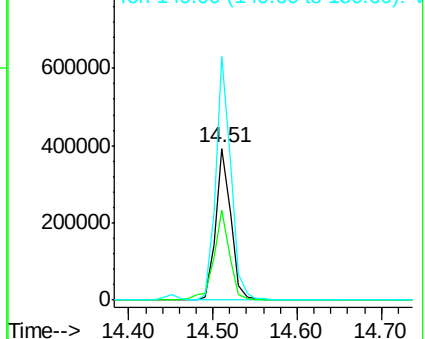
152 100

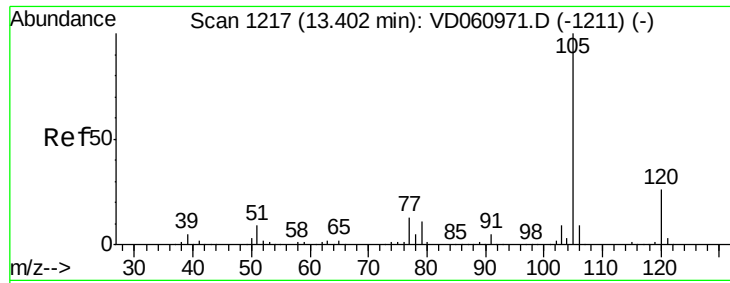
115 59.6 28.6 85.9

150 160.5 0.0 310.6



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: 10.324 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

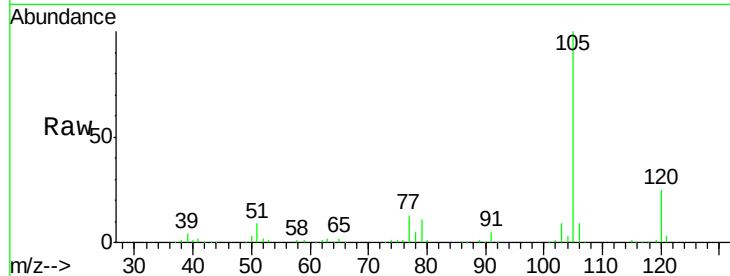
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 359984

Ion Ratio Lower Upper

105 100

120 25.2 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

300000

250000

200000

150000

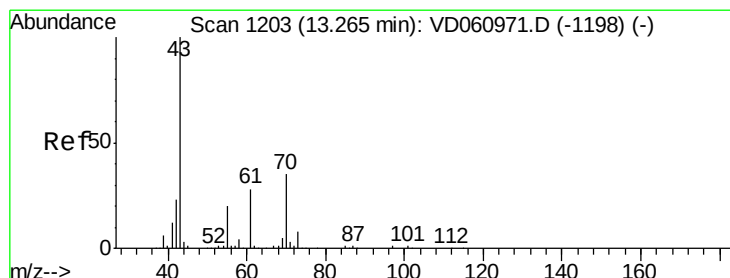
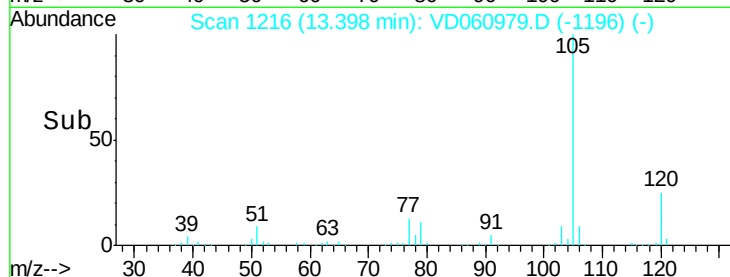
100000

50000

0

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 9.853 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Tgt Ion: 43 Resp: 96738

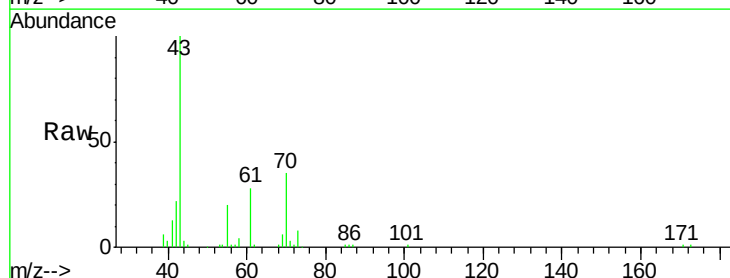
Ion Ratio Lower Upper

43 100

70 35.5 27.7 41.5

55 19.5 16.2 24.2

61 28.4 22.3 33.5



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

100000

80000

60000

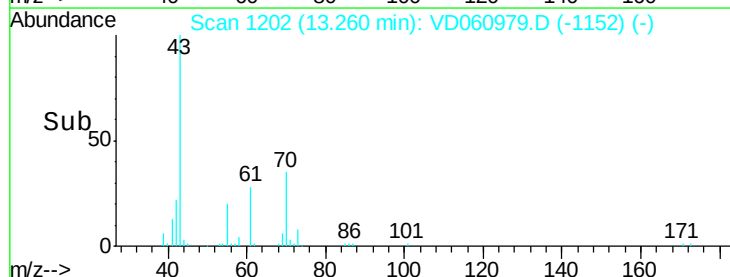
40000

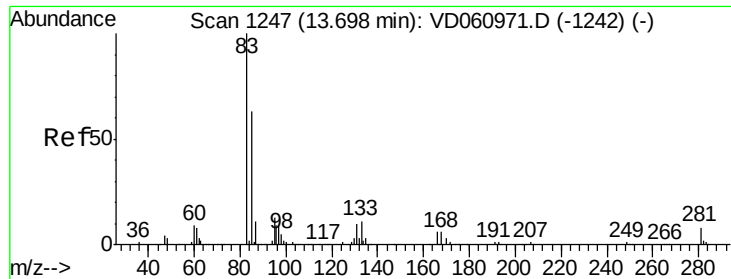
20000

0

13.20 13.25 13.30 13.35

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 9.497 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

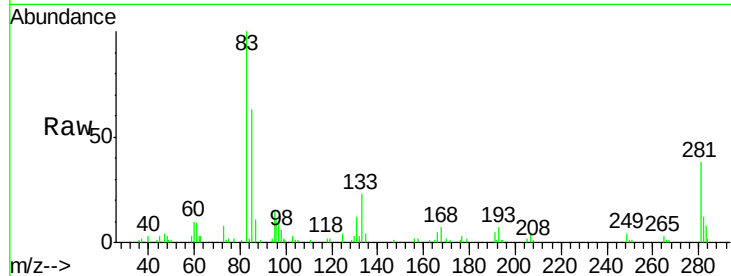
Tot Ion: 83 Resp: 64610

Ion Ratio Lower Upper

83 100

131 11.7 5.1 15.3

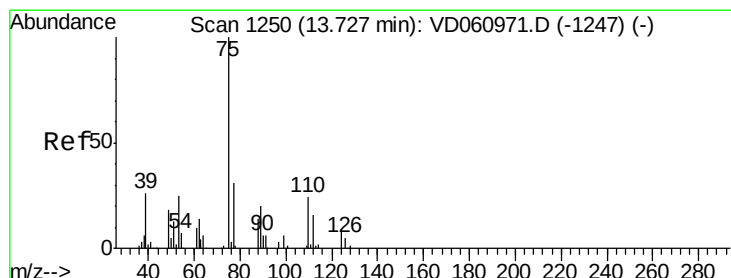
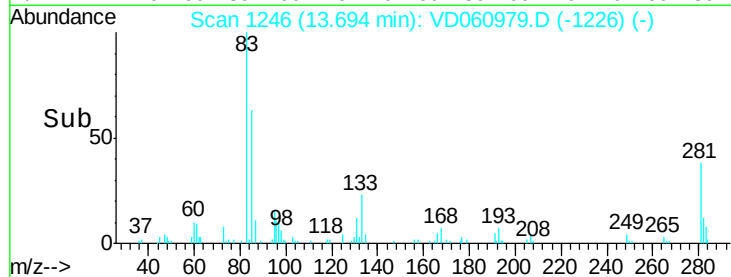
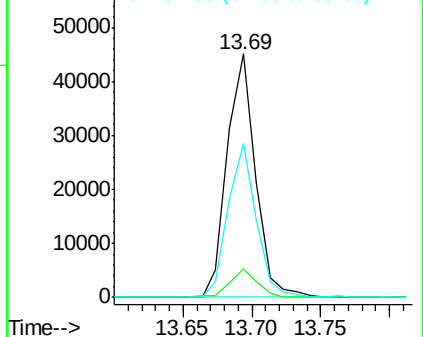
85 63.5 31.5 94.5



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: 9.747 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VD060979.D

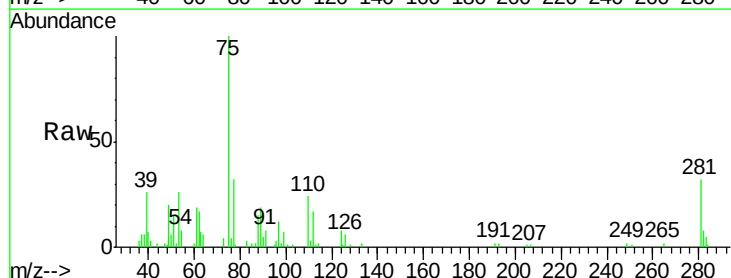
Acq: 8 Mar 2019 13:02

Tgt Ion: 75 Resp: 67843

Ion Ratio Lower Upper

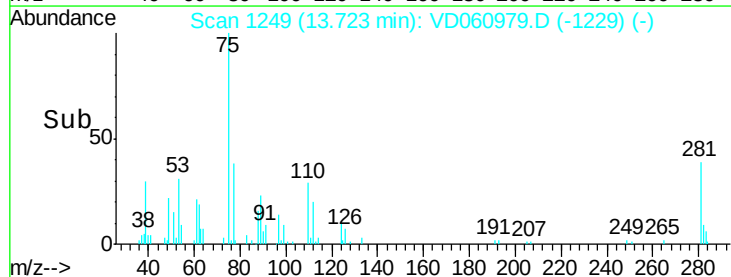
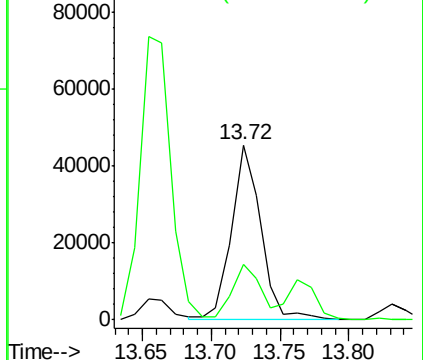
75 100

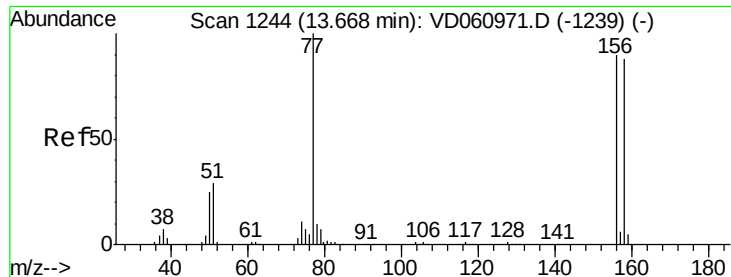
77 31.8 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 9.854 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

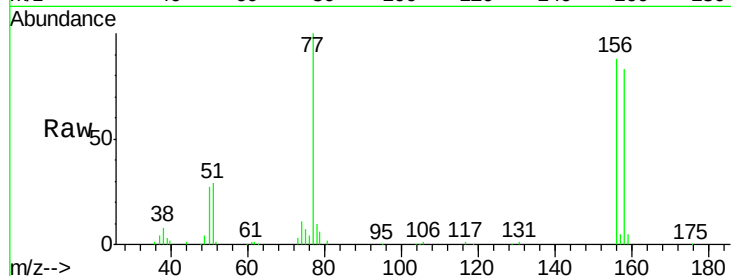
Tot Ion:156 Resp: 87712

Ion Ratio Lower Upper

156 100

77 113.3 55.5 166.7

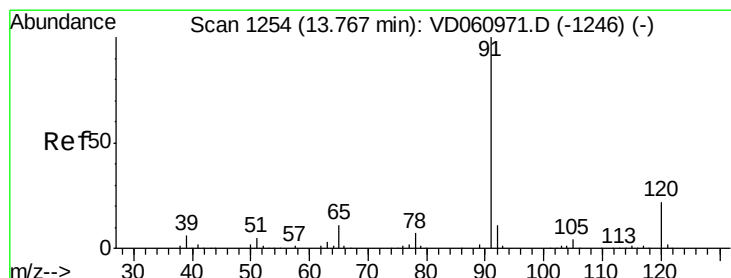
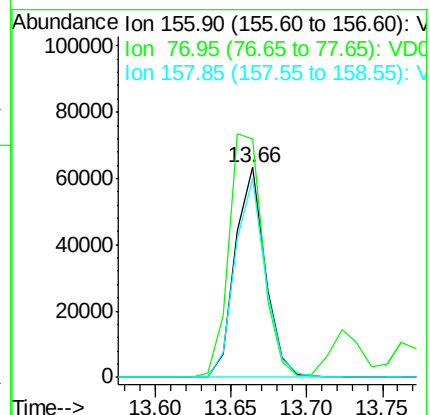
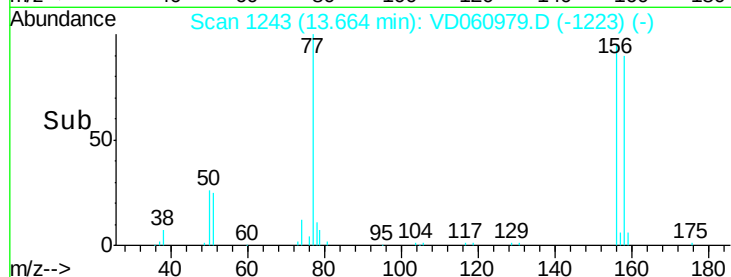
158 94.4 49.0 147.0



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



#78

n-propylbenzene

Concen: 10.501 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD060979.D

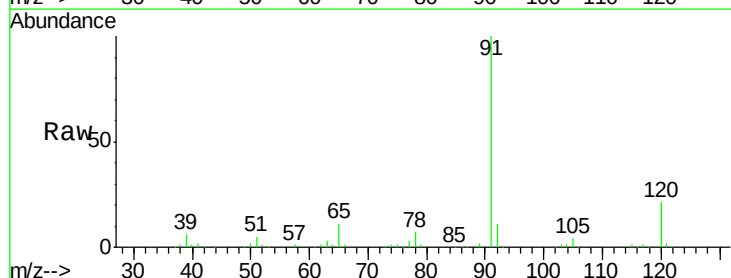
Acq: 8 Mar 2019 13:02

Tgt Ion: 91 Resp: 428648

Ion Ratio Lower Upper

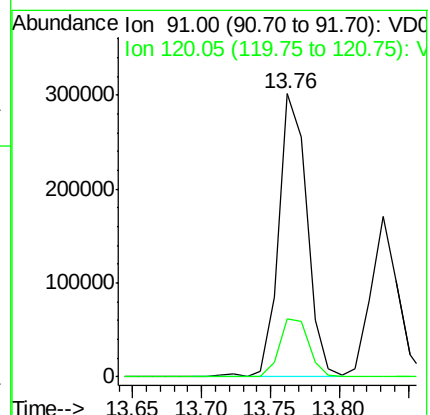
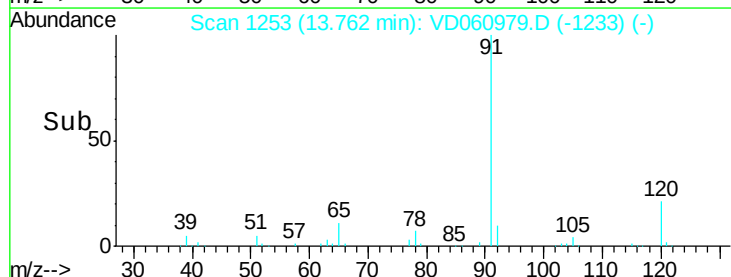
91 100

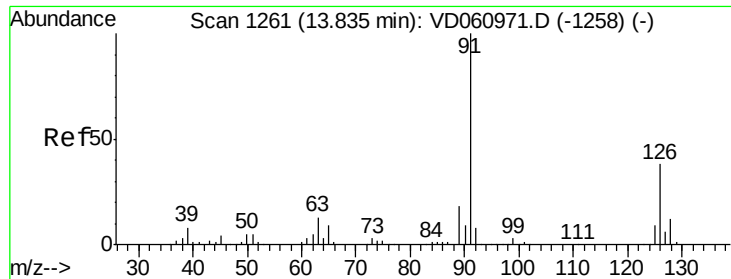
120 20.5 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 10.277 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

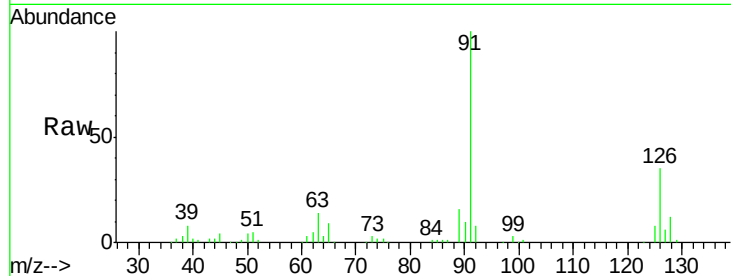
LOQ-SOIL-02-QT1-2019

Tot Ion: 91 Resp: 230949

Ion Ratio Lower Upper

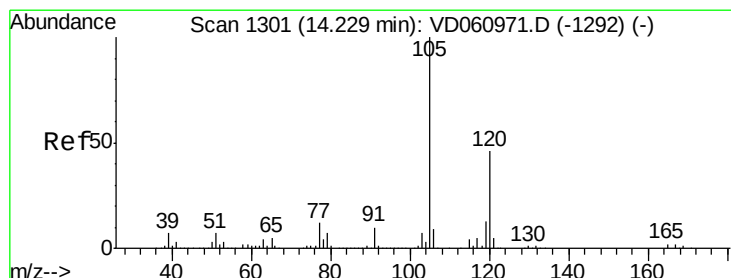
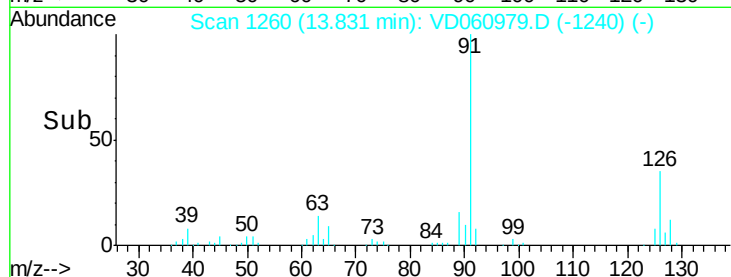
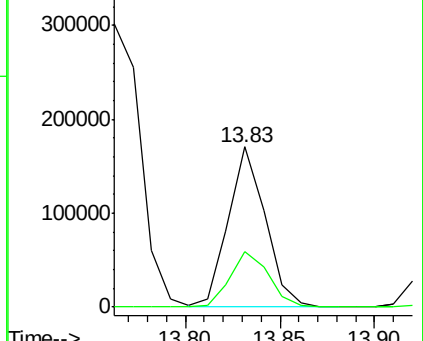
91 100

126 34.5 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VD060979.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD060979.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 10.741 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD060979.D

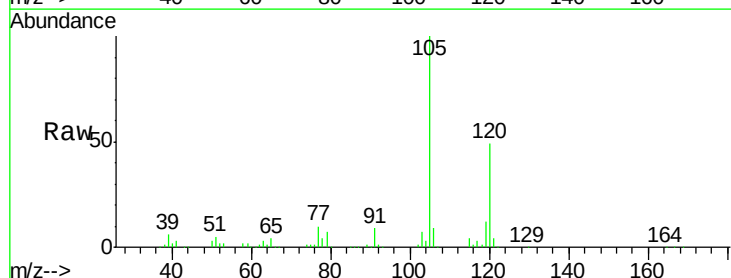
Acq: 8 Mar 2019 13:02

Tgt Ion:105 Resp: 284328

Ion Ratio Lower Upper

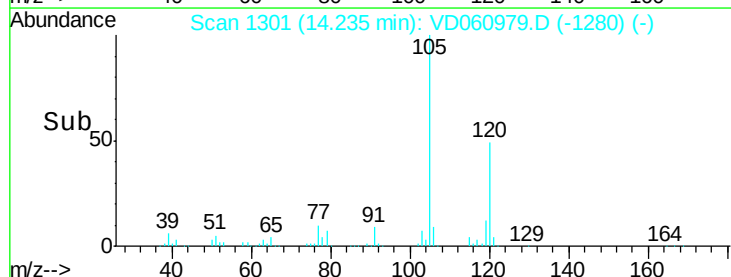
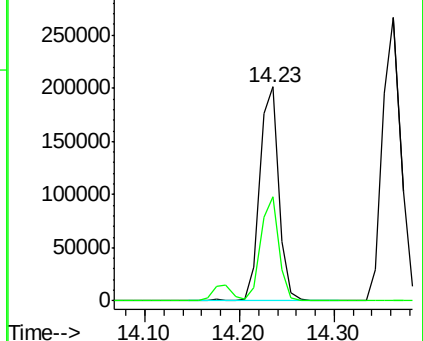
105 100

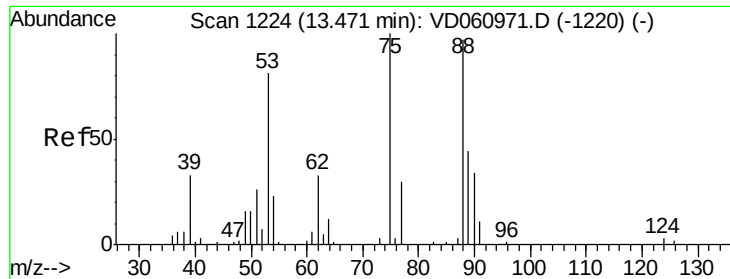
120 48.7 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060979.D (-1280) (-)

Ion 120.05 (119.75 to 120.75): VD060979.D (-1280) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 8.880 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

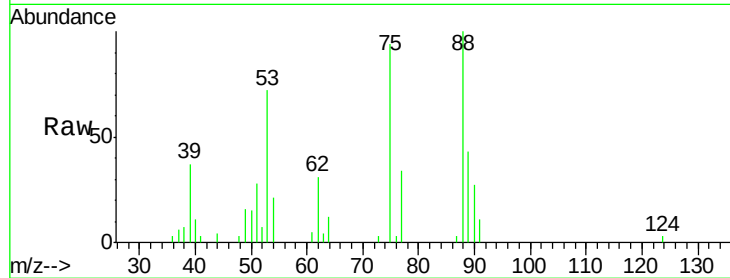
Tot Ion: 75 Resp: 18223

Ion Ratio Lower Upper

75 100

53 76.6 64.4 96.6

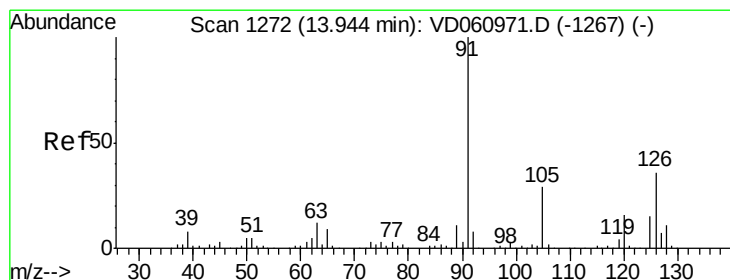
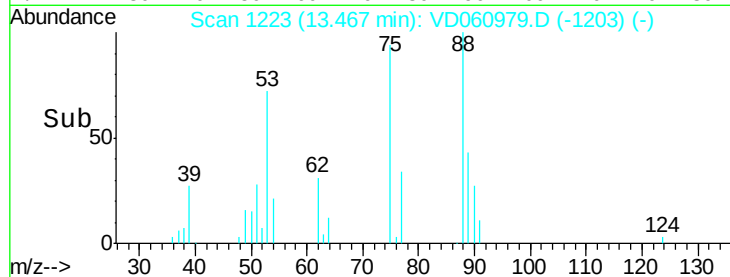
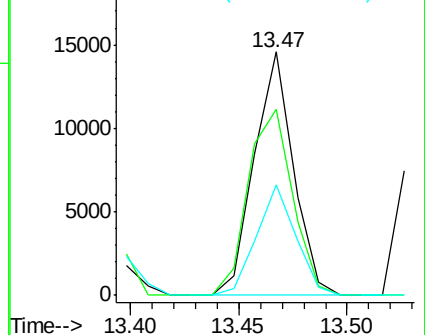
89 45.5 34.8 52.2



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: 10.151 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD060979.D

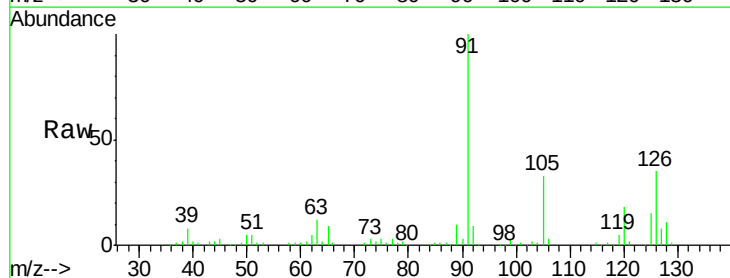
Acq: 8 Mar 2019 13:02

Tgt Ion: 91 Resp: 269688

Ion Ratio Lower Upper

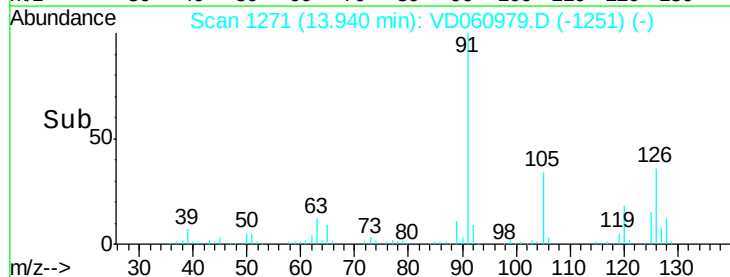
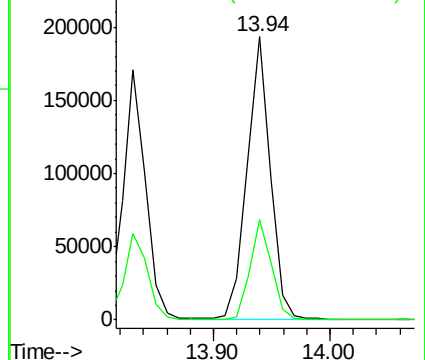
91 100

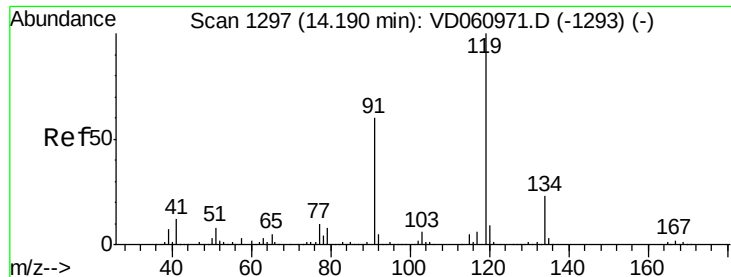
126 35.3 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 10.741 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

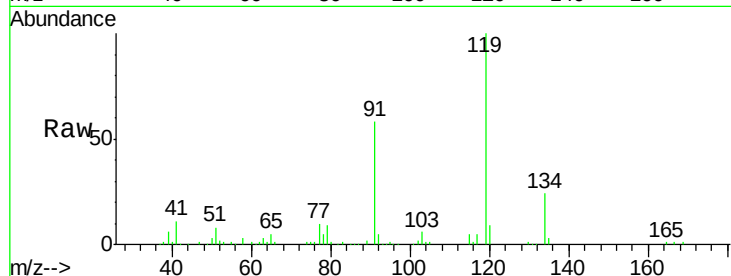
Tot Ion:119 Resp: 311151

Ion Ratio Lower Upper

119 100

91 58.4 30.1 90.3

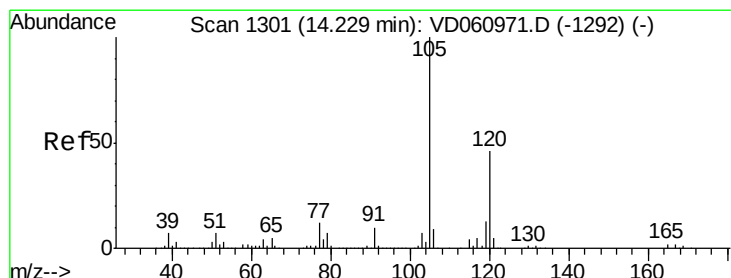
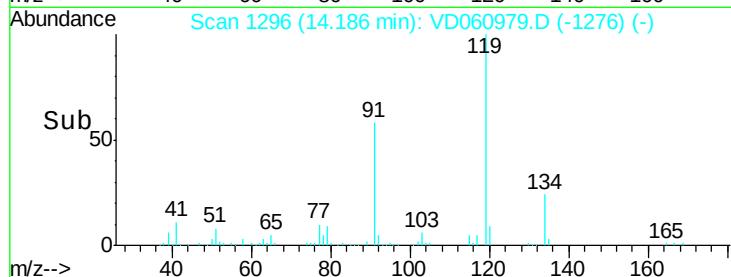
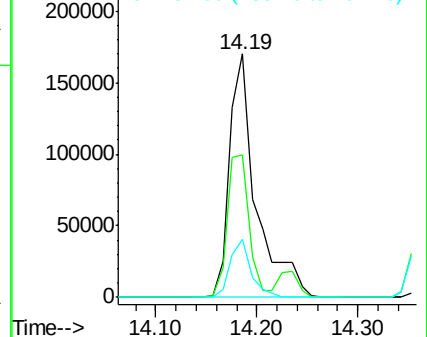
134 23.8 11.6 34.7



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 10.741 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD060979.D

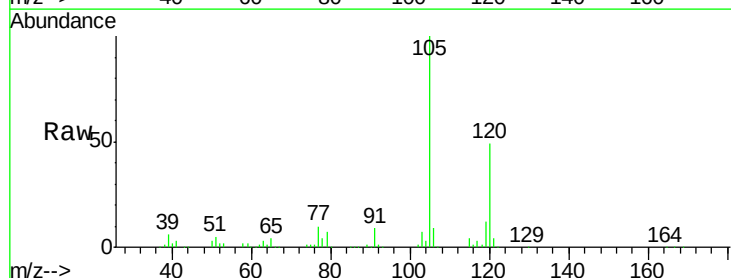
Acq: 8 Mar 2019 13:02

Tgt Ion:105 Resp: 284328

Ion Ratio Lower Upper

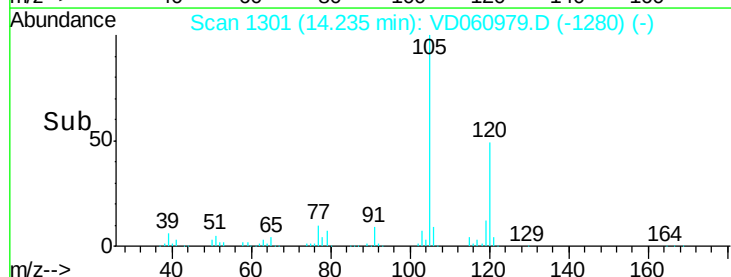
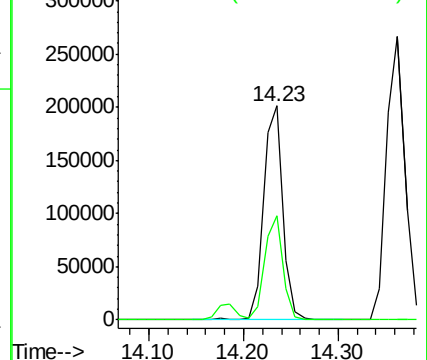
105 100

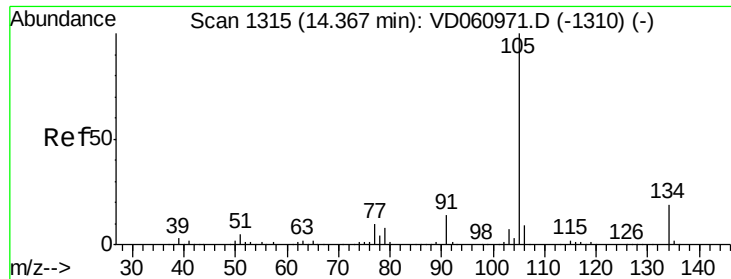
120 48.7 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 10.243 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

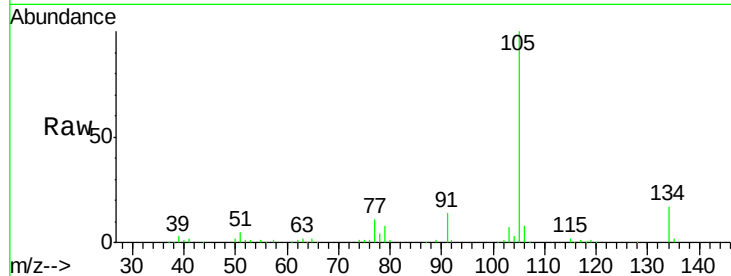
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 362259

Ion Ratio Lower Upper

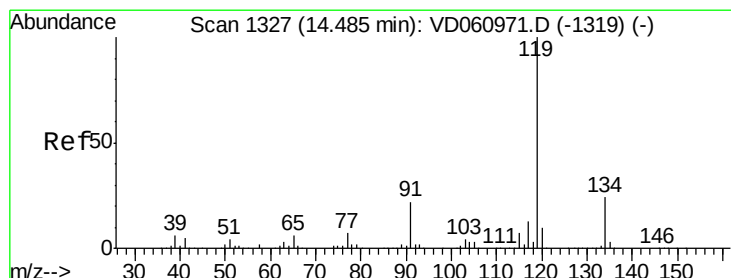
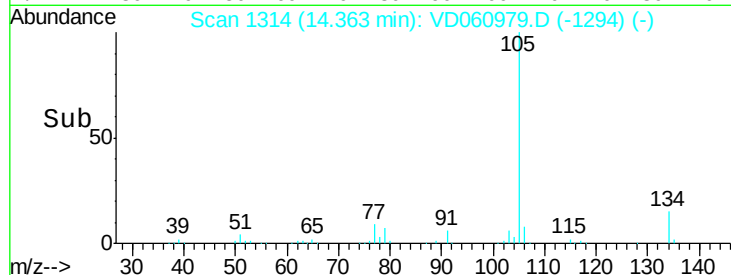
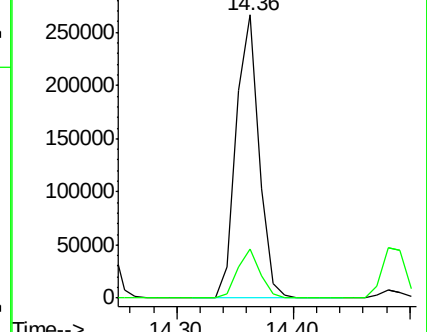
105 100

134 17.3 9.4 28.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 9.867 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

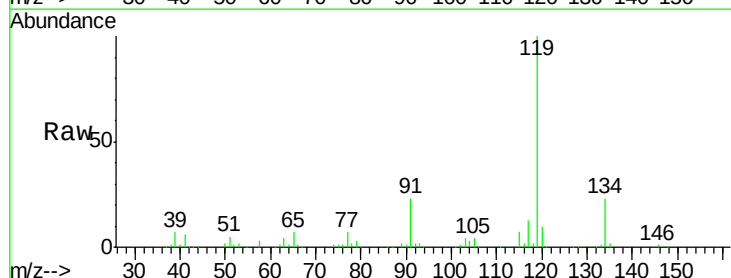
Tgt Ion:119 Resp: 285226

Ion Ratio Lower Upper

119 100

134 22.6 12.0 36.1

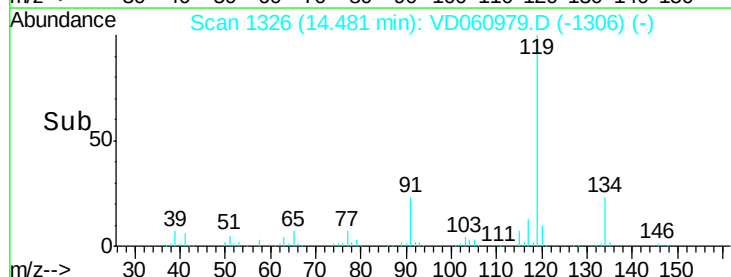
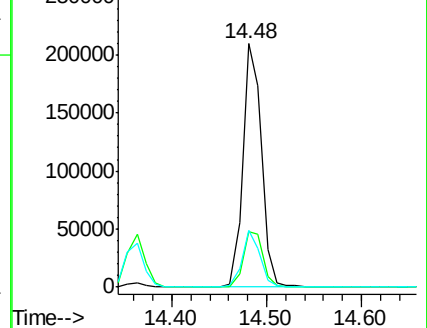
91 23.5 11.2 33.6

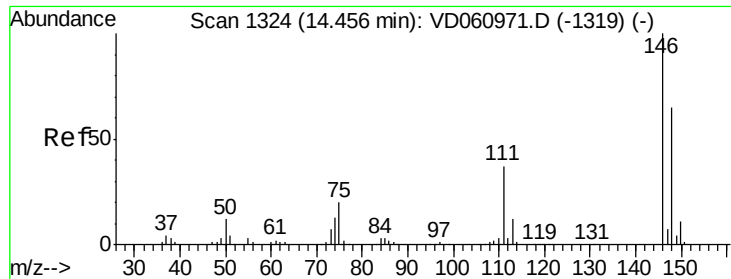


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

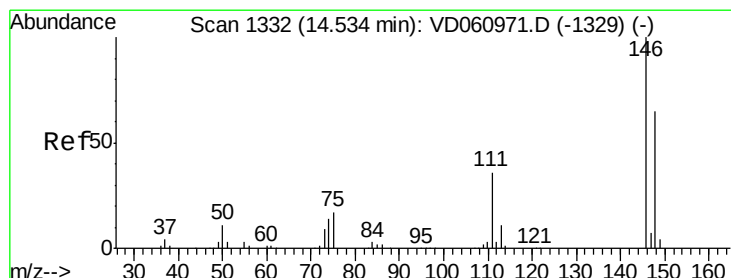
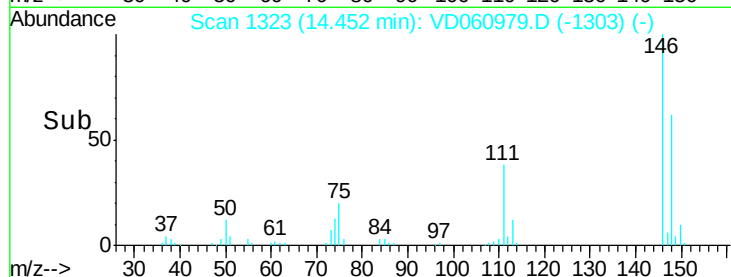
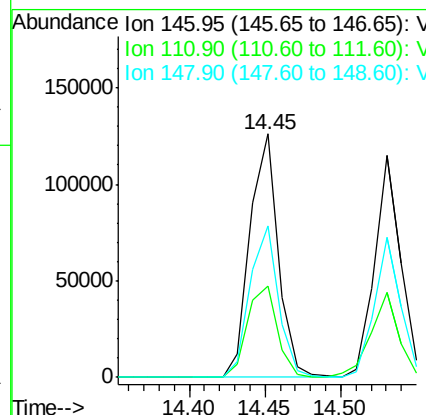
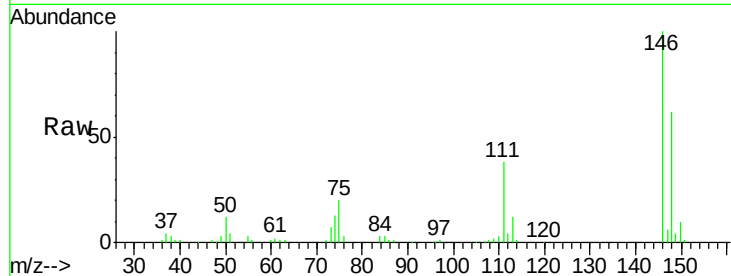




#87
 1,3-Dichlorobenzene
 Concen: 10.350 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

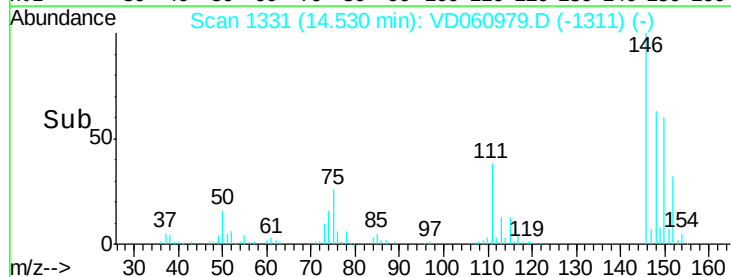
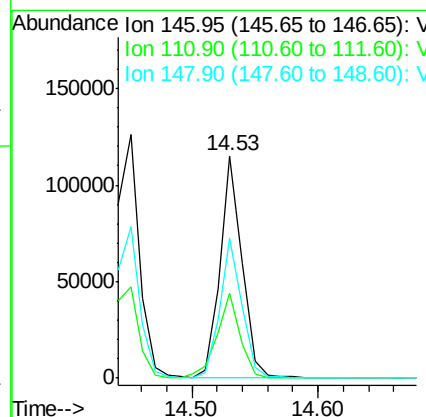
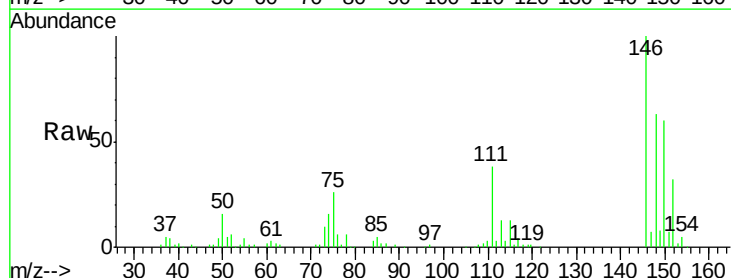
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

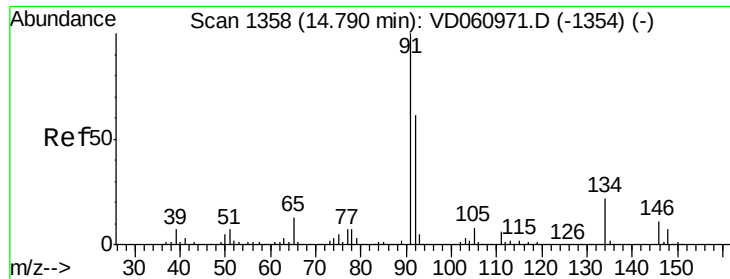
Tot Ion:146 Resp: 164505
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.4 55.4
 148 62.2 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 8.995 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion:146 Resp: 140491
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.4 55.2
 148 63.1 32.5 97.5





#89

n-Butylbenzene

Concen: 10.291 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VD060979.D

Acq: 8 Mar 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT1-2019

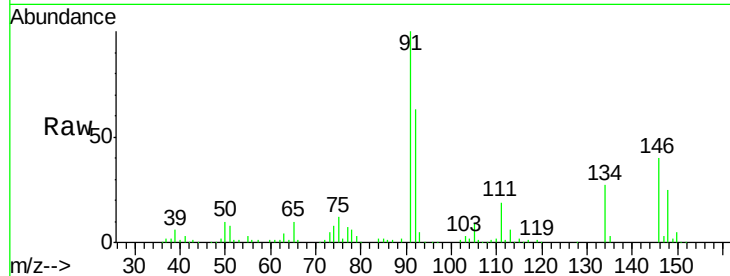
Tot Ion: 91 Resp: 285674

Ion Ratio Lower Upper

91 100

92 62.6 30.6 91.8

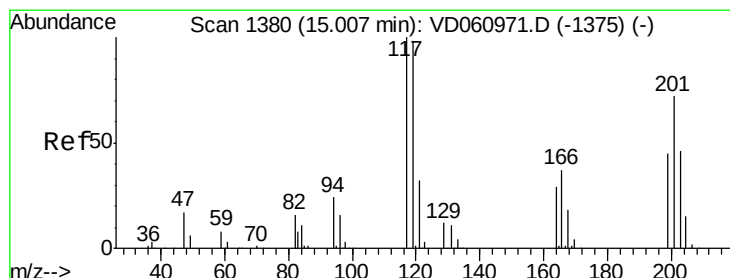
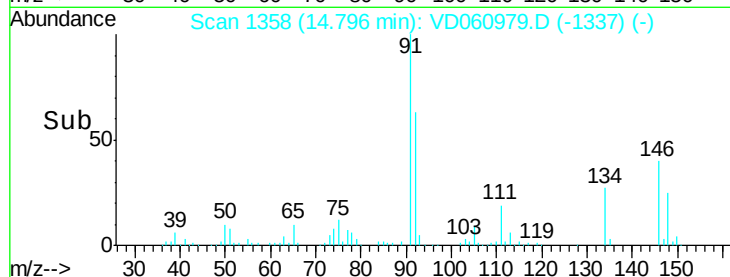
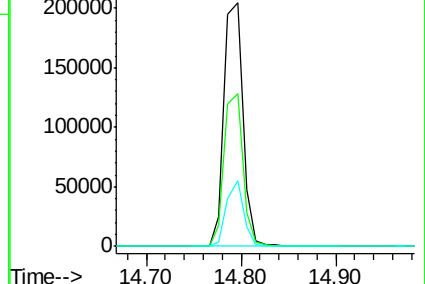
134 27.2 11.0 33.0



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): VDC



#90

Hexachloroethane

Concen: 9.251 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VD060979.D

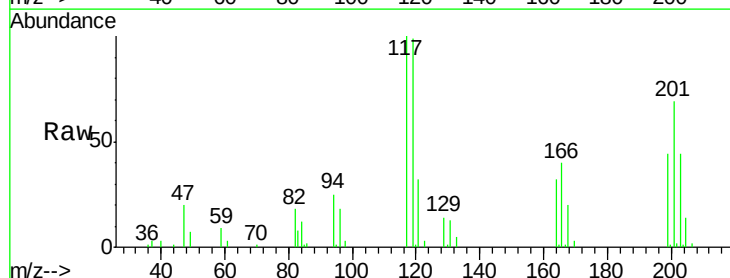
Acq: 8 Mar 2019 13:02

Tgt Ion: 117 Resp: 75514

Ion Ratio Lower Upper

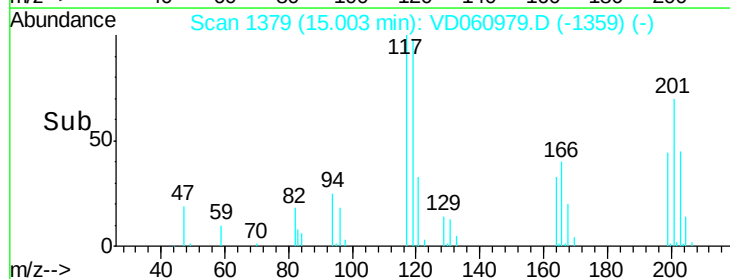
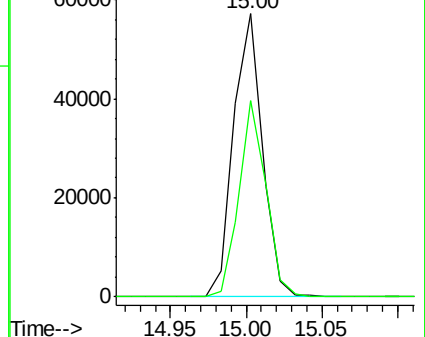
117 100

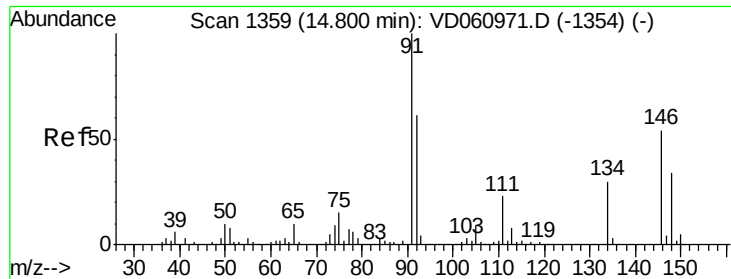
201 69.4 36.2 108.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

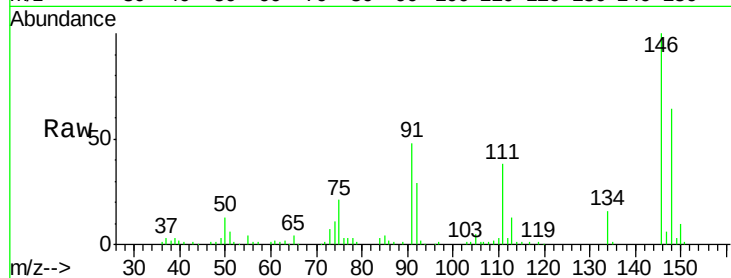




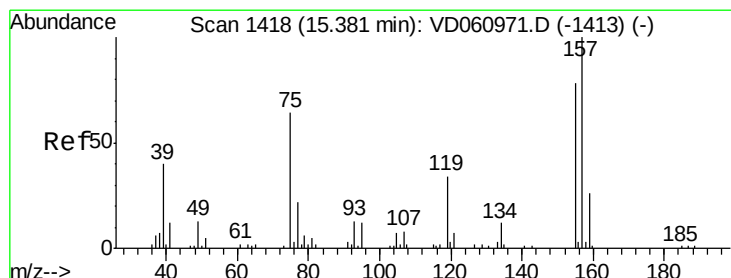
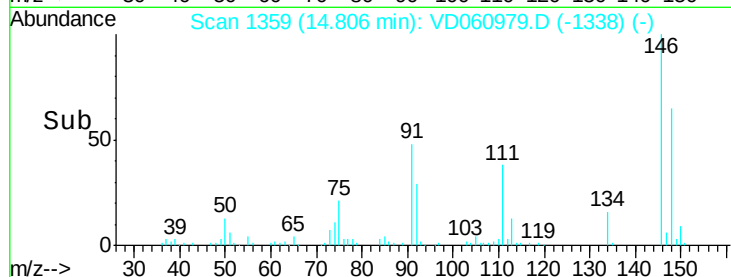
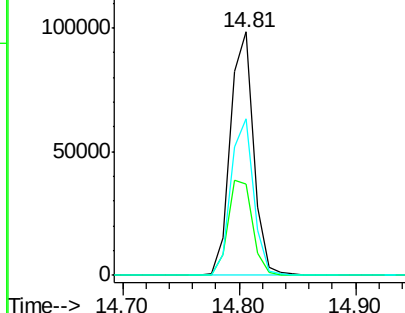
#91
 1,2-Dichlorobenzene
 Concen: 10.265 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Tot Ion:146 Resp: 136006
 Ion Ratio Lower Upper
 146 100
 111 37.5 21.5 64.5
 148 64.4 30.9 92.8

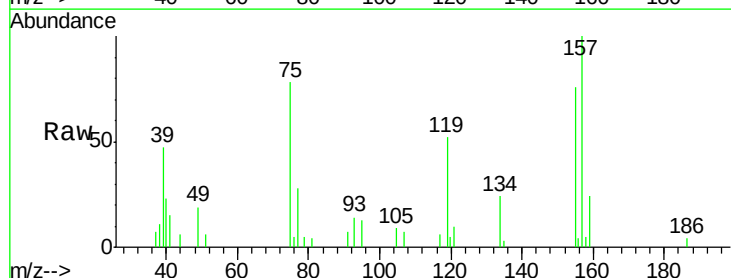


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

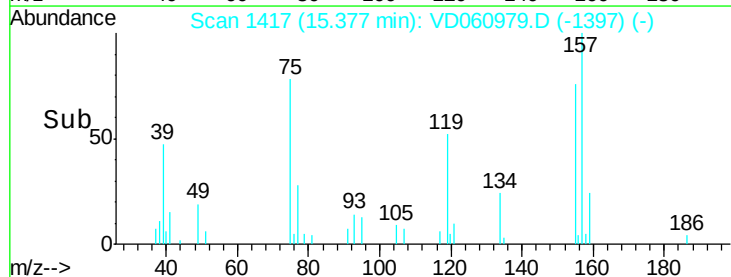
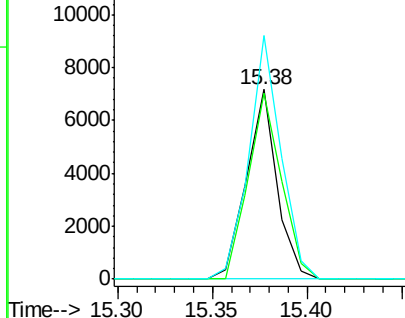


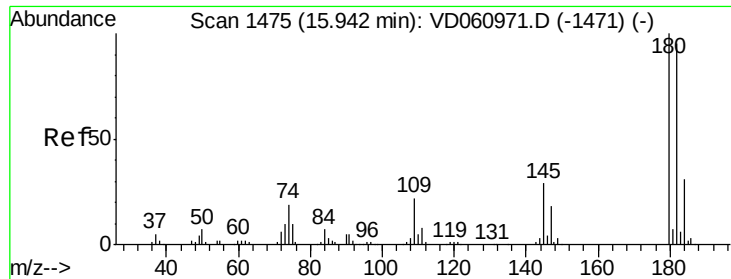
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.817 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion: 75 Resp: 8048
 Ion Ratio Lower Upper
 75 100
 155 97.9 61.2 183.5
 157 128.4 78.3 234.8



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

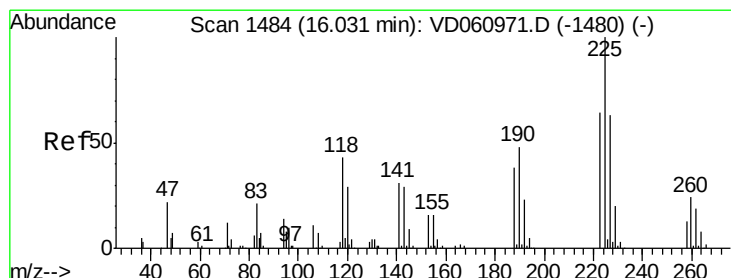
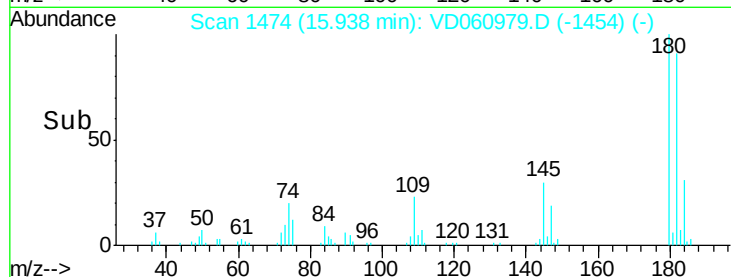
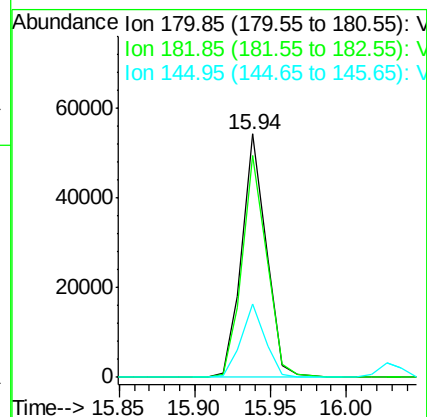
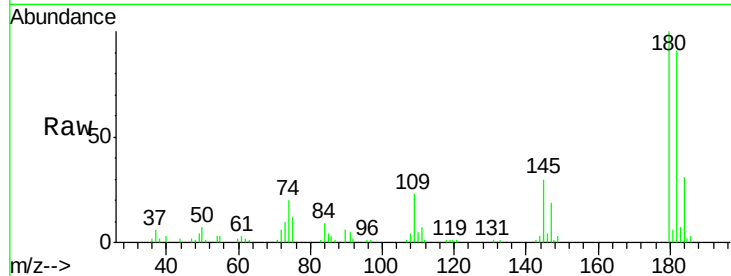




#93
 1,2,4-Trichlorobenzene
 Concen: 9.972 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

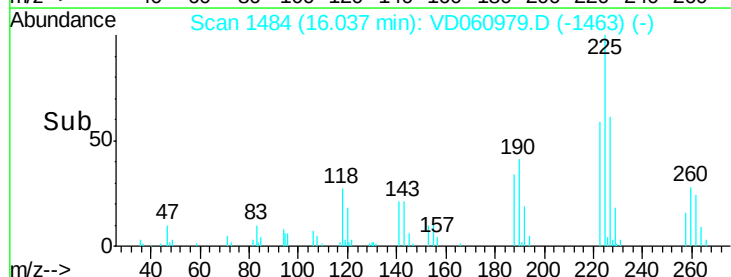
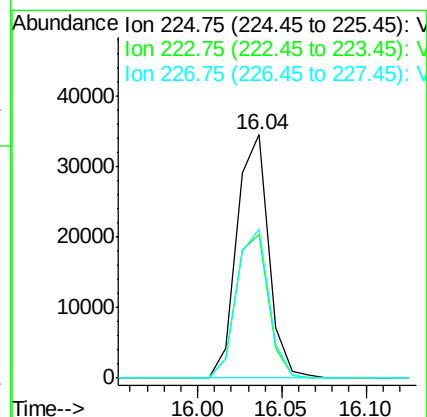
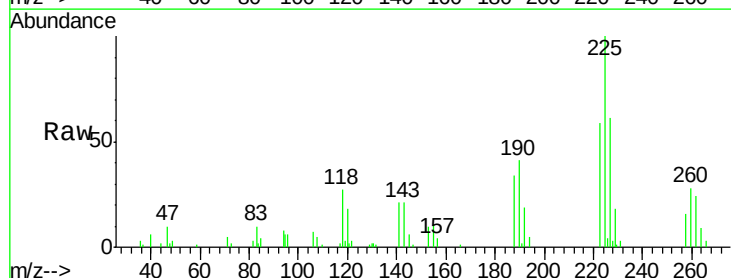
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

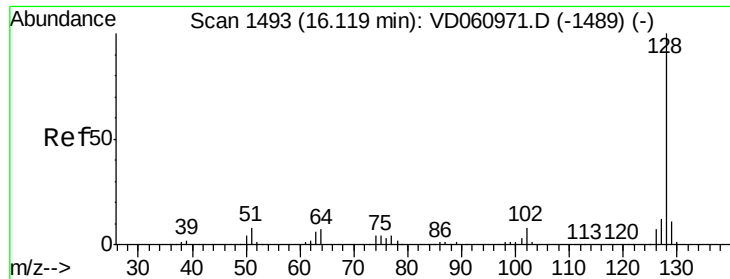
Tot Ion:180 Resp: 61291
 Ion Ratio Lower Upper
 180 100
 182 91.3 47.3 142.0
 145 30.1 14.4 43.0



#94
 Hexachlorobutadiene
 Concen: 9.700 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: VD060979.D
 Acq: 8 Mar 2019 13:02

Tgt Ion:225 Resp: 45099
 Ion Ratio Lower Upper
 225 100
 223 59.1 31.8 95.3
 227 61.0 31.4 94.0

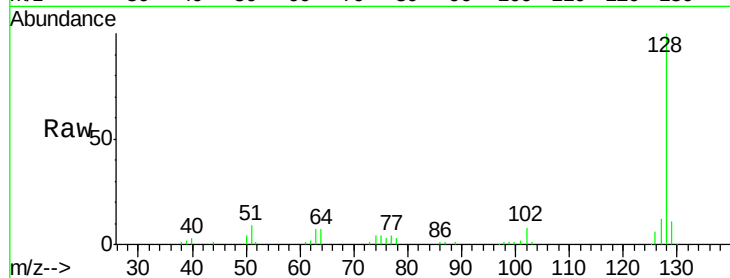




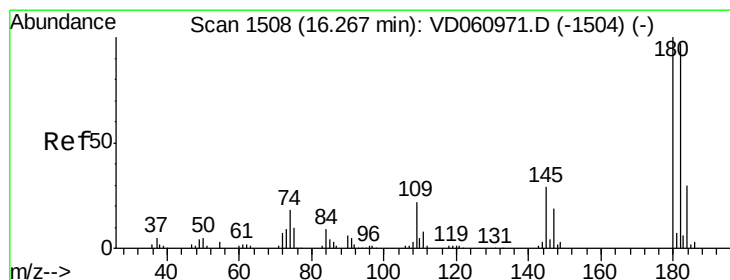
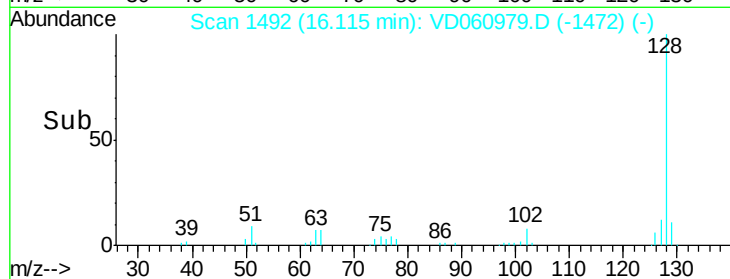
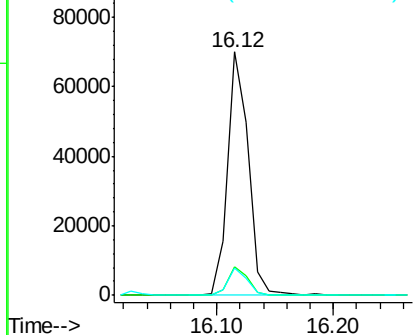
#95
Naphthalene
Concen: 9.158 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion:128 Resp: 85537
Ion Ratio Lower Upper
128 100
127 11.6 9.8 14.8
129 11.1 8.5 12.7

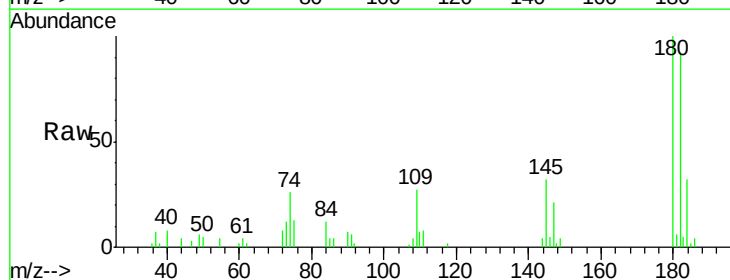


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 8.296 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VD060979.D
Acq: 8 Mar 2019 13:02

Tgt Ion:180 Resp: 25184
Ion Ratio Lower Upper
180 100
182 91.9 48.6 145.8
145 32.4 14.3 42.9



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

