

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
 Data File : VD062087.D
 Acq On : 30 Apr 2019 15:07
 Operator : FY/SY
 Sample : K2241-02
 Misc : 5.00gm/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Quant Time: May 01 08:34:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 01 08:28:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	544686	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.20	114	826472	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.35	117	704348	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	373292	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.43	65	242941	56.99	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.98%	
35) Dibromofluoromethane	6.90	113	330396	57.80	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	115.60%	
50) Toluene-d8	10.39	98	757340	55.68	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	111.36%	
62) 4-Bromofluorobenzene	13.54	95	295301	54.13	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.26%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.57	85	47098	9.684	ug/l	97
3) Chloromethane	1.75	50	40838	9.879	ug/l	99
4) Vinyl Chloride	1.84	62	36404	9.716	ug/l	95
5) Bromomethane	2.15	94	13839	12.969	ug/l	92
6) Chloroethane	2.25	64	18426	13.605	ug/l	98
7) Trichlorofluoromethane	2.52	101	68480	12.088	ug/l	90
8) Diethyl Ether	2.86	74	17418	11.472	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.14	101	64923	12.441	ug/l	100
10) Methyl Iodide	3.30	142	62104	9.530	ug/l	99
11) Tert butyl alcohol	4.04	59	13359	55.463	ug/l	100
12) 1,1-Dichloroethene	3.12	96	50327	11.335	ug/l	96
13) Acrolein	3.02	56	11025	44.116	ug/l	90
14) Allyl chloride	3.61	41	71764	11.837	ug/l	95
15) Acrylonitrile	4.17	53	43948	58.924	ug/l	95
16) Acetone	3.21	43	61444	60.365	ug/l	92
17) Carbon Disulfide	3.37	76	131497	10.249	ug/l	100
18) Methyl Acetate	3.62	43	24896	12.155	ug/l	93
19) Methyl tert-butyl Ether	4.22	73	102328	11.616	ug/l	95
20) Methylene Chloride	3.80	84	74389	13.184	ug/l	96
21) trans-1,2-Dichloroethene	4.20	96	57155	11.222	ug/l	96
22) Diisopropyl ether	5.09	45	146935	10.381	ug/l	93
23) Vinyl Acetate	5.03	43	386993	52.502	ug/l	97
24) 1,1-Dichloroethane	4.96	63	94738	11.074	ug/l	99
25) 2-Butanone	6.04	43	62462	50.613	ug/l	99
26) 2,2-Dichloropropane	6.00	77	80283	10.757	ug/l	95
27) cis-1,2-Dichloroethene	6.01	96	62365	10.763	ug/l	96
28) Bromochloromethane	6.41	49	34948	10.676	ug/l	83
29) Tetrahydrofuran	6.44	42	30511	50.176	ug/l	97
30) Chloroform	6.64	83	109492	11.268	ug/l	100
31) Cyclohexane	6.94	56	62951	9.914	ug/l	98
32) 1,1,1-Trichloroethane	6.85	97	98565	11.658	ug/l	97
36) 1,1-Dichloropropene	7.13	75	73467	11.409	ug/l	96
37) Ethyl Acetate	6.16	43	32251	11.754	ug/l #	87
38) Carbon Tetrachloride	7.10	117	86873	10.647	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
 Data File : VD062087.D
 Acq On : 30 Apr 2019 15:07
 Operator : FY/SY
 Sample : K2241-02
 Misc : 5.00gm/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Quant Time: May 01 08:34:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 01 08:28:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	68571	10.794	ug/l	96
40) Benzene	7.43	78	185315	11.625	ug/l	98
41) Methacrylonitrile	6.42	41	37602	11.745	ug/l #	87
42) 1,2-Dichloroethane	7.56	62	67831	12.532	ug/l	99
43) Isopropyl Acetate	9.22	43	44147	11.011	ug/l	100
44) Trichloroethene	8.52	130	67764	10.965	ug/l	99
45) 1,2-Dichloropropane	8.92	63	46494	11.497	ug/l	98
46) Dibromomethane	9.05	93	31722	10.901	ug/l	92
47) Bromodichloromethane	9.35	83	76321	11.100	ug/l	99
48) Methyl methacrylate	9.11	41	27166	11.876	ug/l	94
49) 1,4-Dioxane	9.06	88	4883	197.996	ug/l	95
51) 4-Methyl-2-Pentanone	10.29	43	143723	58.617	ug/l	98
52) Toluene	10.49	92	130982	12.887	ug/l	96
53) t-1,3-Dichloropropene	10.90	75	67664	11.724	ug/l	97
54) cis-1,3-Dichloropropene	10.02	75	82303	11.725	ug/l	99
55) 1,1,2-Trichloroethane	11.17	97	42236	12.377	ug/l	92
56) Ethyl methacrylate	11.02	69	44940	11.891	ug/l	99
57) 1,3-Dichloropropane	11.39	76	64153	12.172	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.84	63	110608	62.949	ug/l	95
59) 2-Hexanone	11.52	43	100564	54.676	ug/l	99
60) Dibromochloromethane	11.67	129	67161	11.895	ug/l	94
61) 1,2-Dibromoethane	11.79	107	49752	12.291	ug/l	97
64) Tetrachloroethene	11.24	164	54712	10.889	ug/l	93
65) Chlorobenzene	12.38	112	153243	11.514	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.50	131	61188	10.838	ug/l	98
67) Ethyl Benzene	12.51	91	229815	10.579	ug/l	98
68) m/p-Xylenes	12.66	106	189657	24.155	ug/l	96
69) o-Xylene	13.03	106	79013	10.999	ug/l	89
70) Styrene	13.06	104	133956	10.799	ug/l	99
71) Bromoform	13.22	173	36086	11.211	ug/l	100
73) Isopropylbenzene	13.40	105	255297	10.252	ug/l	98
74) N-amyl acetate	13.26	43	56148	8.755	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.69	83	49569	10.158	ug/l	95
76) 1,2,3-Trichloropropane	13.72	75	47567	10.035	ug/l	97
77) Bromobenzene	13.66	156	72160	10.102	ug/l	95
78) n-propylbenzene	13.76	91	292987	10.278	ug/l	99
79) 2-Chlorotoluene	13.83	91	178951	10.364	ug/l	100
80) 1,3,5-Trimethylbenzene	13.93	105	211111	10.632	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	12950	9.015	ug/l	92
82) 4-Chlorotoluene	13.94	91	201241	10.583	ug/l	98
83) tert-Butylbenzene	14.18	119	248375	10.798	ug/l	95
84) 1,2,4-Trimethylbenzene	14.22	105	206026	10.867	ug/l	94
85) sec-Butylbenzene	14.36	105	254051	10.222	ug/l	94
86) p-Isopropyltoluene	14.48	119	226284	10.173	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	124788	9.976	ug/l	95
88) 1,4-Dichlorobenzene	14.53	146	134534	11.500	ug/l	96
89) n-Butylbenzene	14.79	91	201847	10.108	ug/l	95
90) Hexachloroethane	15.00	117	58188	9.675	ug/l	80
91) 1,2-Dichlorobenzene	14.80	146	97595	9.458	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	6214	9.562	ug/l	82

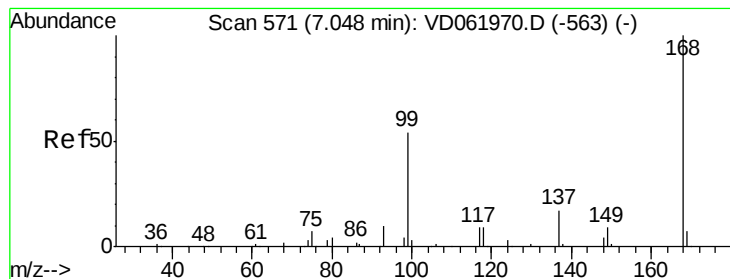
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
Data File : VD062087.D
Acq On : 30 Apr 2019 15:07
Operator : FY/SY
Sample : K2241-02
Misc : 5.00gm/5mL/MSVOA D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Quant Time: May 01 08:34:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Wed May 01 08:28:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	62584	11.241	ug/l	94
94) Hexachlorobutadiene	16.03	225	45220	10.975	ug/l	97
95) Naphthalene	16.11	128	99247	11.040	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	35910	11.368	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

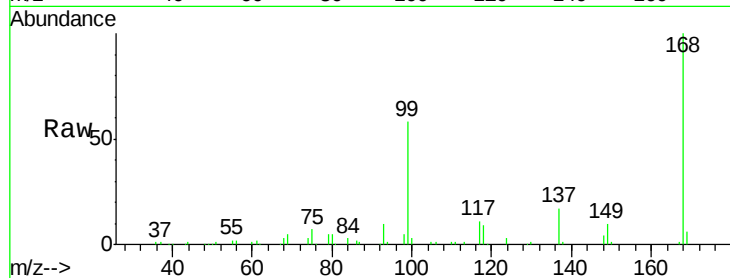
LOQ-SOIL-02-QT2-2019

Tot Ion:168 Resp: 544686

Ion Ratio Lower Upper

168 100

99 57.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

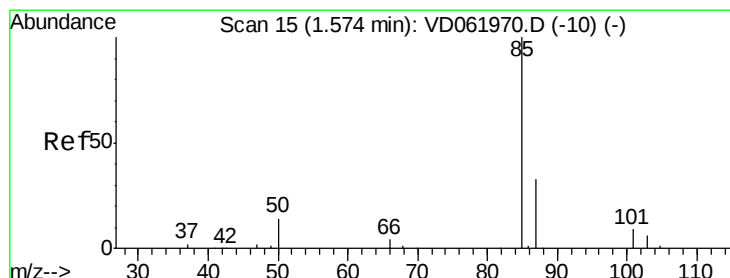
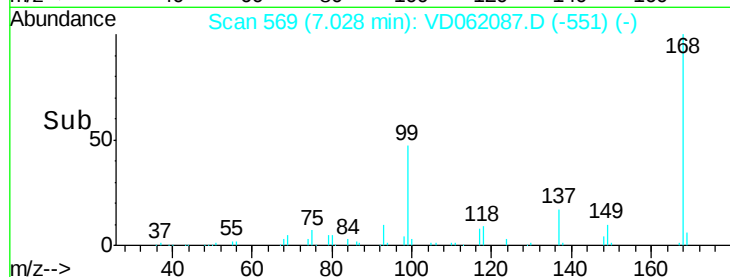
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 9.684 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062087.D

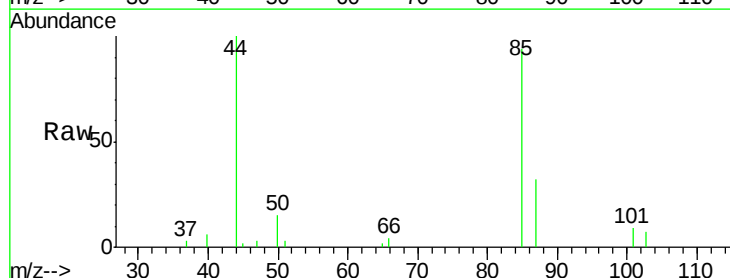
Acq: 30 Apr 2019 15:07

Tgt Ion: 85 Resp: 47098

Ion Ratio Lower Upper

85 100

87 34.0 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

25000

20000

15000

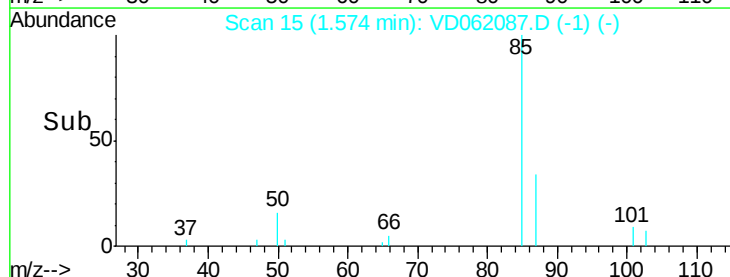
10000

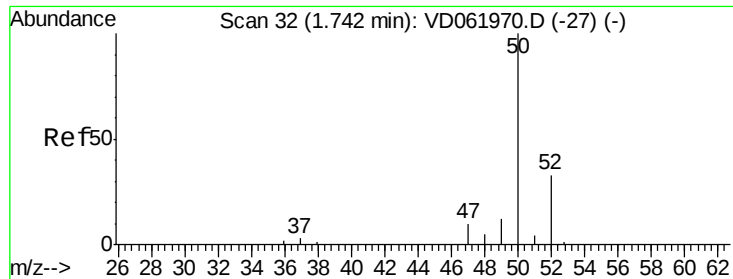
5000

0

1.50 1.60 1.70

Time-->

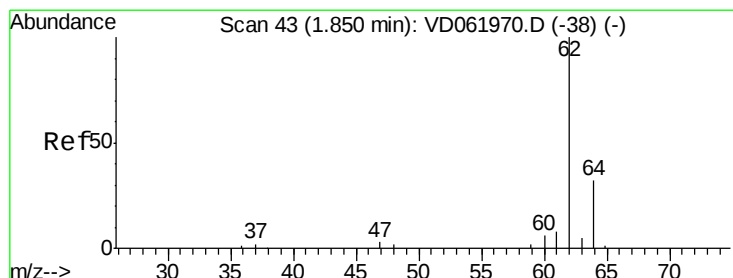
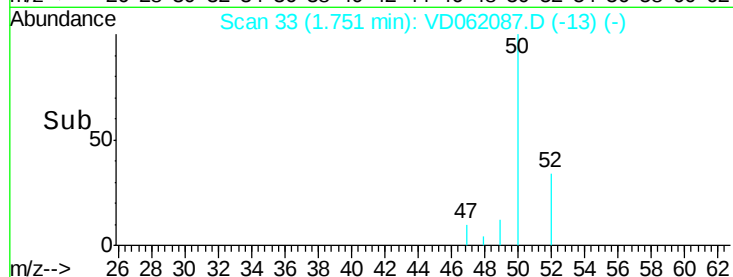
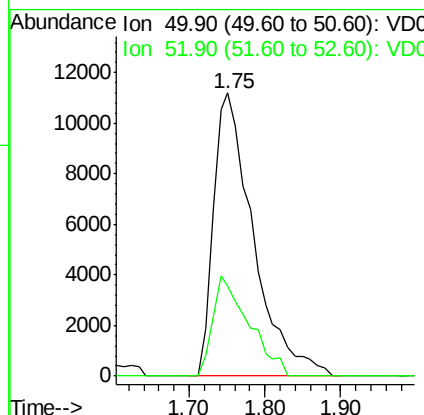
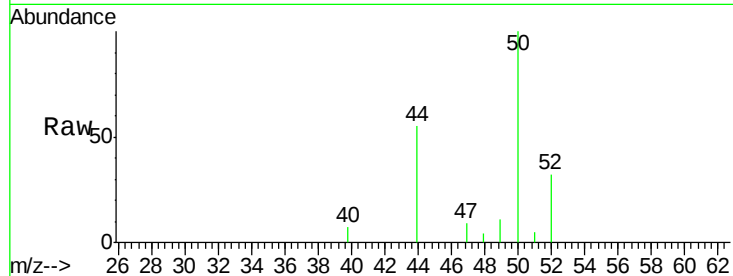




#3
 Chloromethane
 Concen: 9.879 ug/l
 RT: 1.75 min Scan# 33
 Delta R.T. -0.00 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

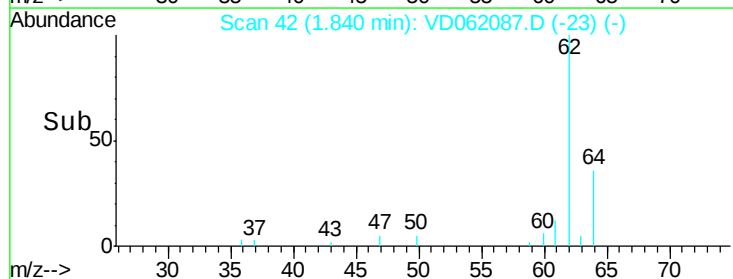
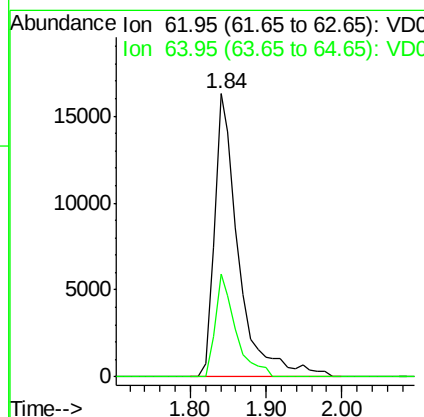
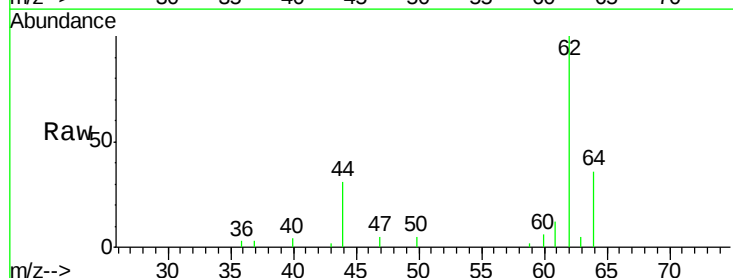
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

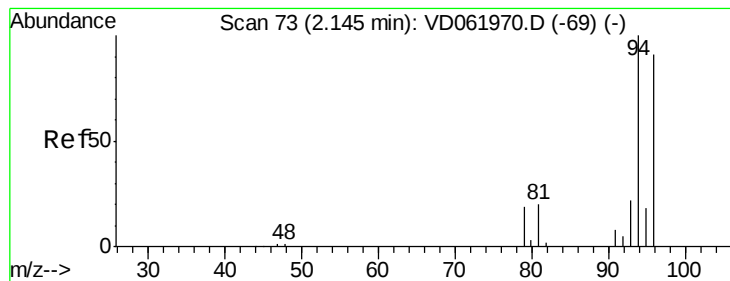
Tot Ion: 50 Resp: 40838
 Ion Ratio Lower Upper
 50 100
 52 31.8 25.2 37.8



#4
 Vinyl Chloride
 Concen: 9.716 ug/l
 RT: 1.84 min Scan# 42
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 62 Resp: 36404
 Ion Ratio Lower Upper
 62 100
 64 36.2 26.5 39.7





#5

Bromomethane

Concen: 12.969 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

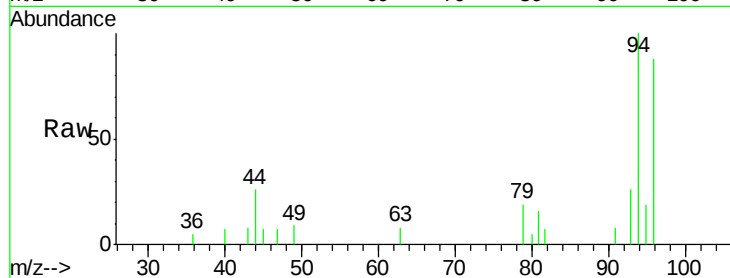
Tot Ion: 94 Resp: 13839

Ion Ratio Lower Upper

94 100

96 87.9 76.6 115.0

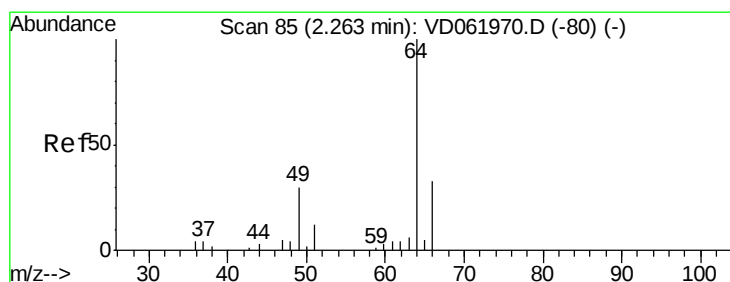
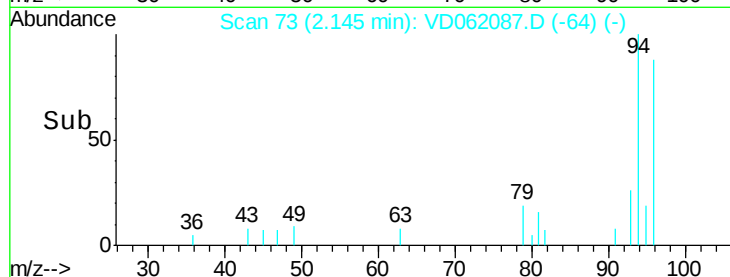
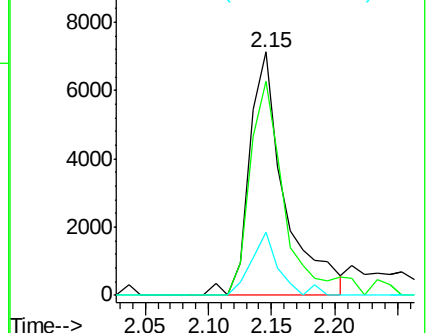
93 25.8 18.5 27.7



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: 13.605 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.02 min

Lab File: VD062087.D

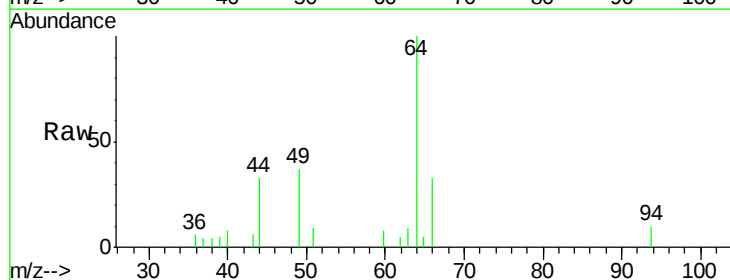
Acq: 30 Apr 2019 15:07

Tgt Ion: 64 Resp: 18426

Ion Ratio Lower Upper

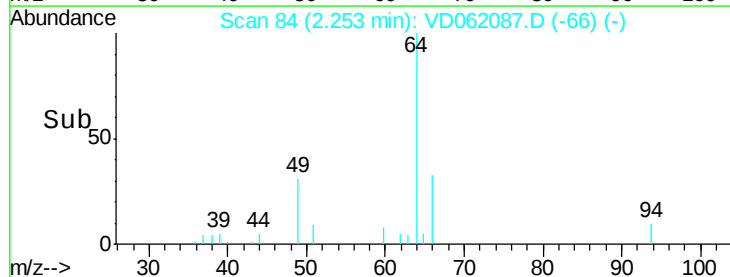
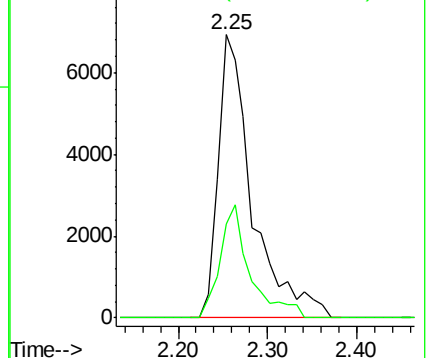
64 100

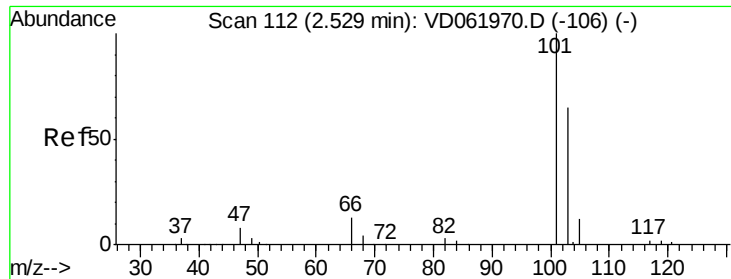
66 33.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



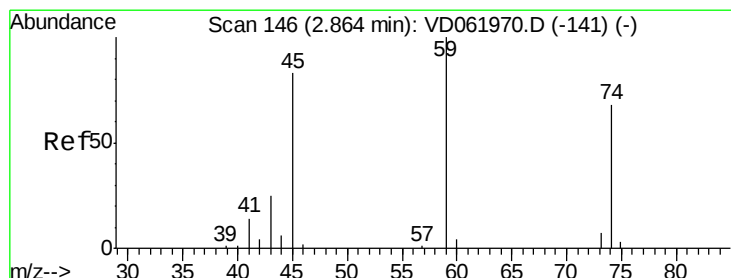
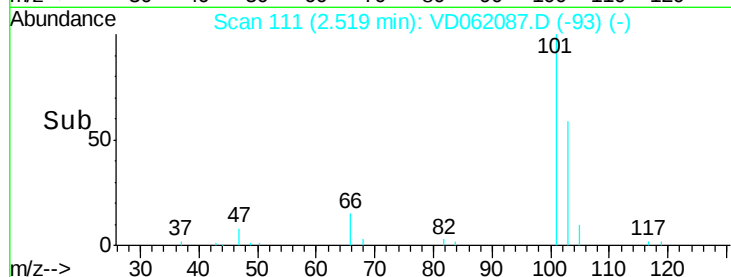
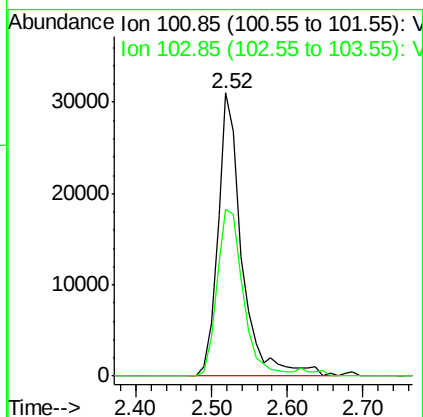
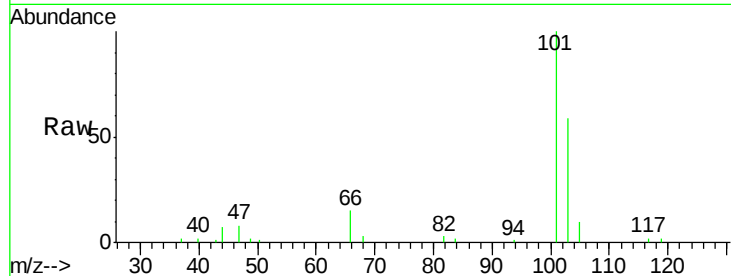


#7

Trichlorofluoromethane
 Concen: 12.088 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

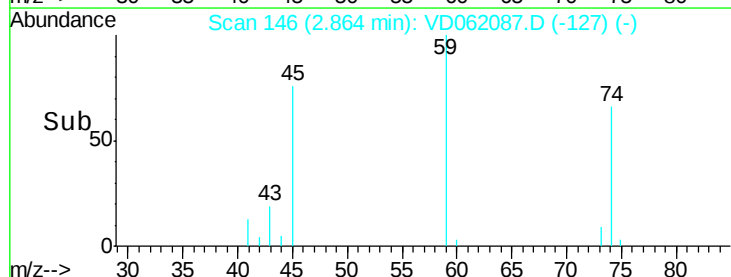
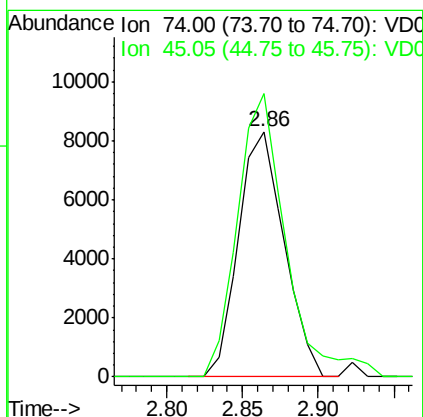
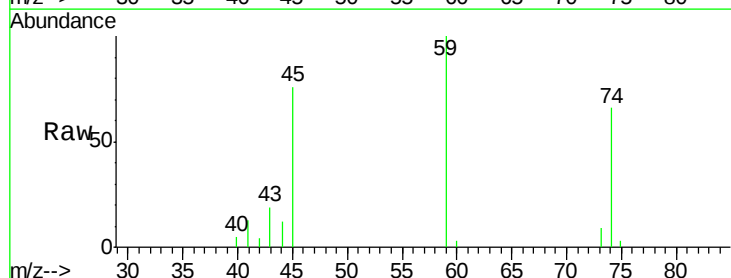
Tot Ion:101 Resp: 68480
 Ion Ratio Lower Upper
 101 100
 103 58.8 53.6 80.4

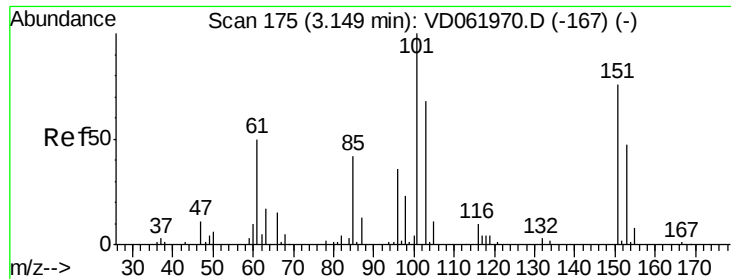


#8

Diethyl Ether
 Concen: 11.472 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 74 Resp: 17418
 Ion Ratio Lower Upper
 74 100
 45 115.3 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.441 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

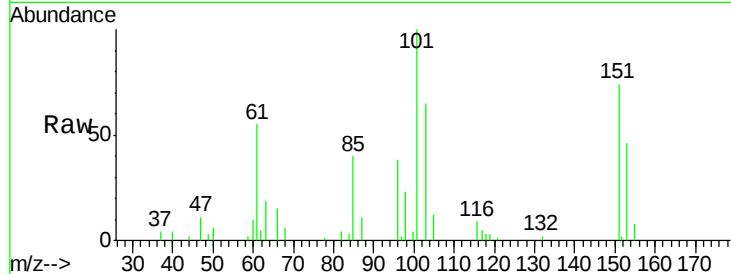
Tot Ion:101 Resp: 64923

Ion Ratio Lower Upper

101 100

85 40.2 32.4 48.6

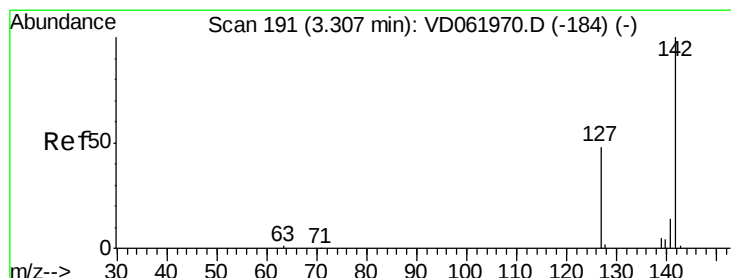
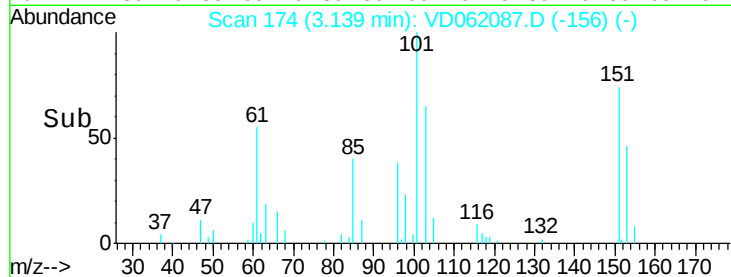
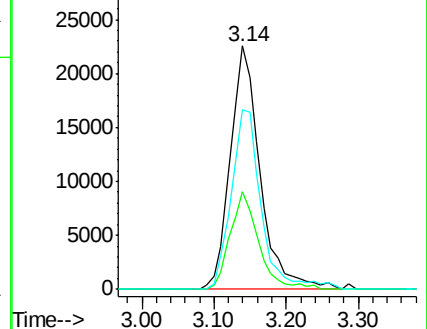
151 74.0 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 9.530 ug/l

RT: 3.30 min Scan# 190

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

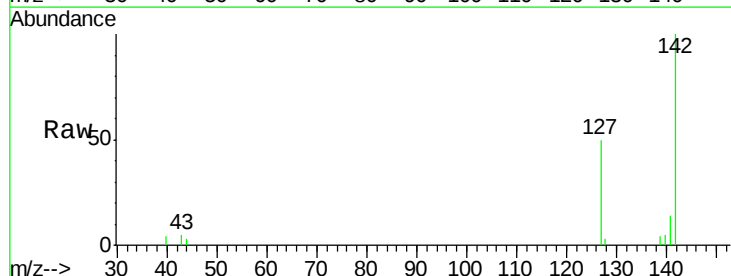
Tgt Ion:142 Resp: 62104

Ion Ratio Lower Upper

142 100

127 49.5 38.8 58.2

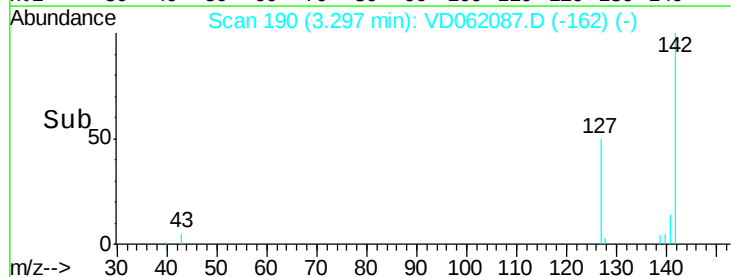
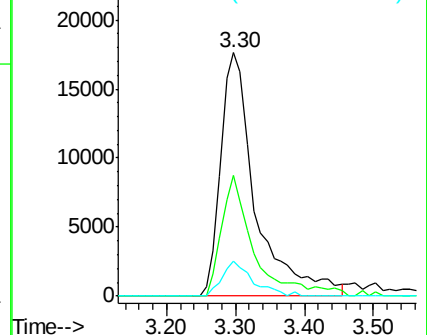
141 14.1 11.4 17.0

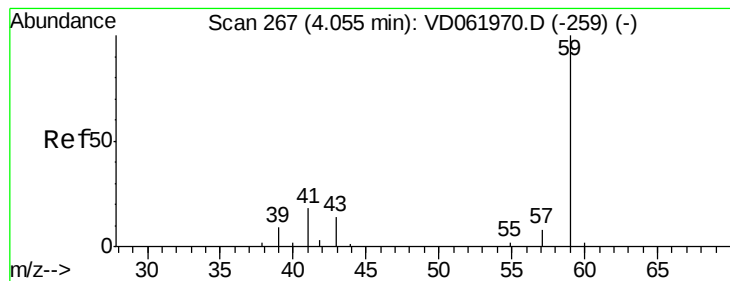


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



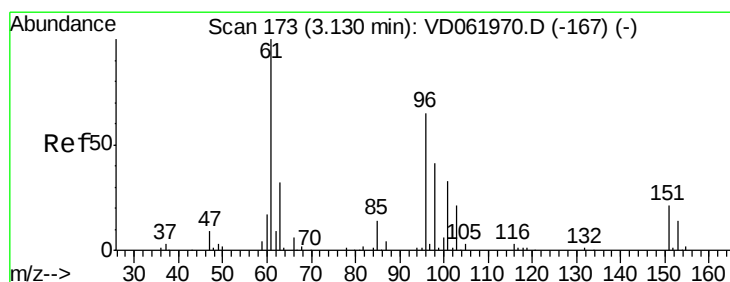
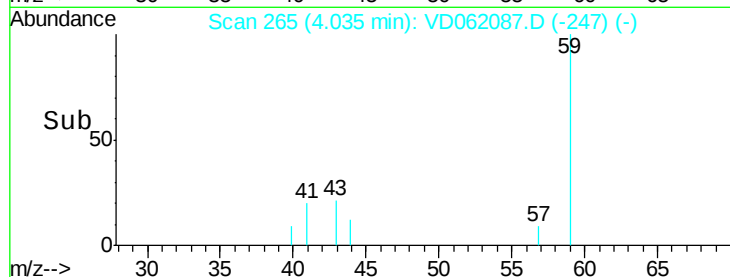
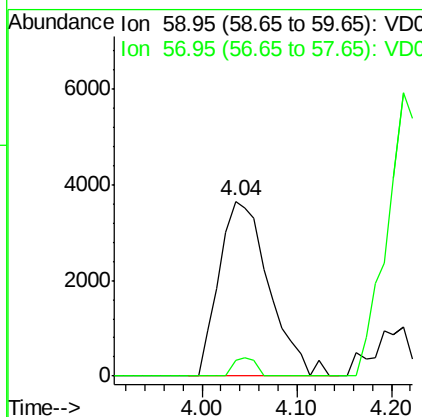
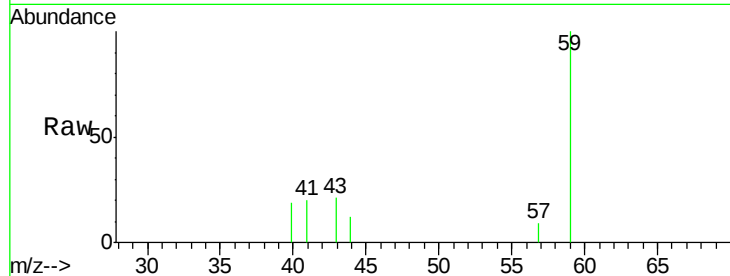


#11

Tert butyl alcohol
 Concen: 55.463 ug/l
 RT: 4.04 min Scan# 265
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

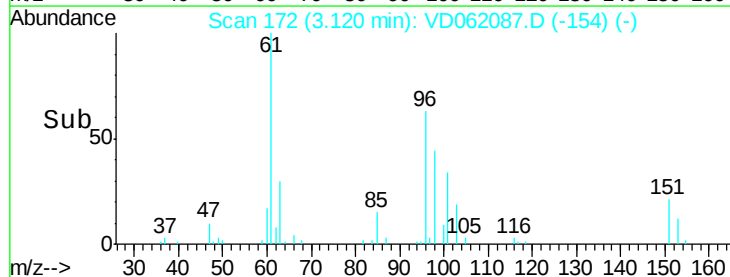
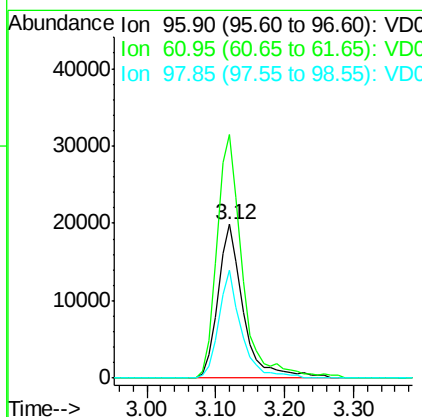
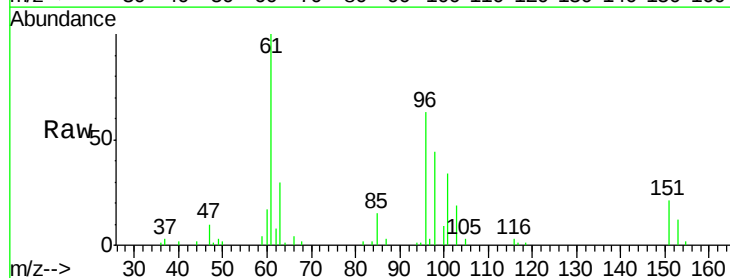
Tot Ion: 59 Resp: 13359
 Ion Ratio Lower Upper
 59 100
 57 8.7 6.9 10.3

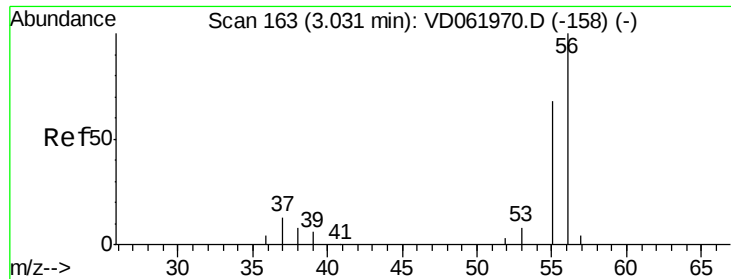


#12

1,1-Dichloroethene
 Concen: 11.335 ug/l
 RT: 3.12 min Scan# 172
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 96 Resp: 50327
 Ion Ratio Lower Upper
 96 100
 61 158.2 129.8 194.8
 98 69.8 51.2 76.8

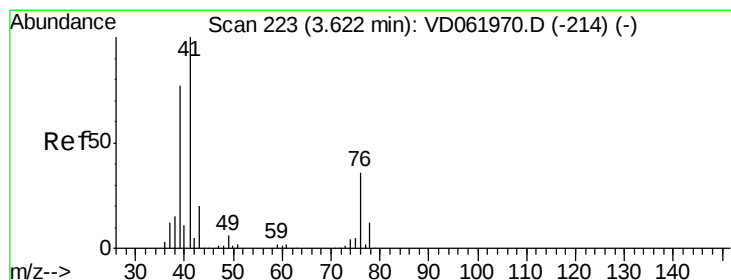
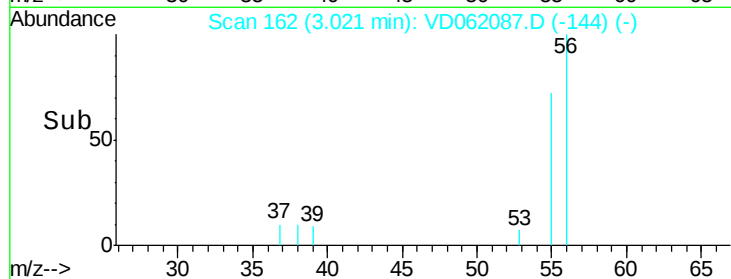
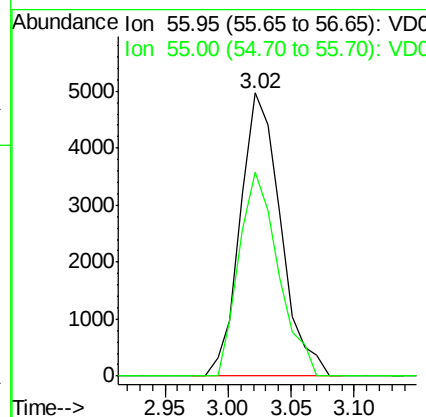
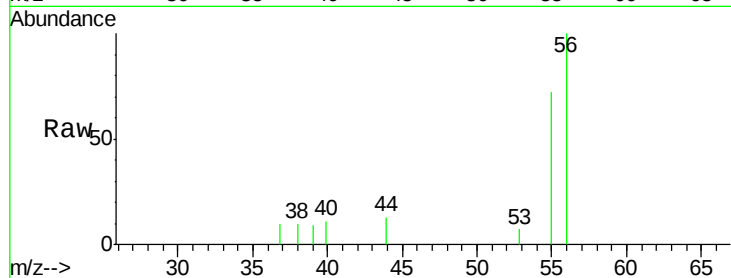




#13
 Acrolein
 Concen: 44.116 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

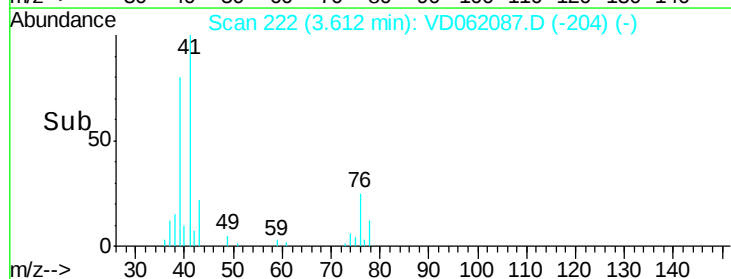
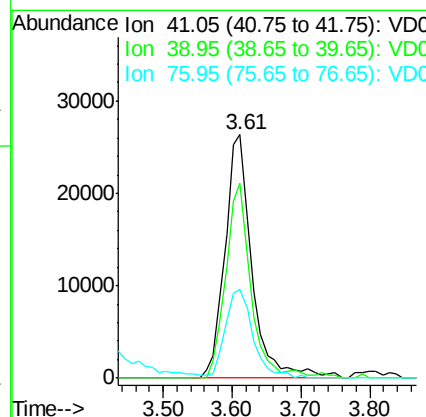
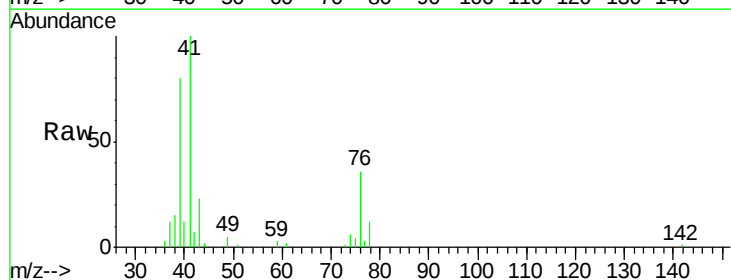
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

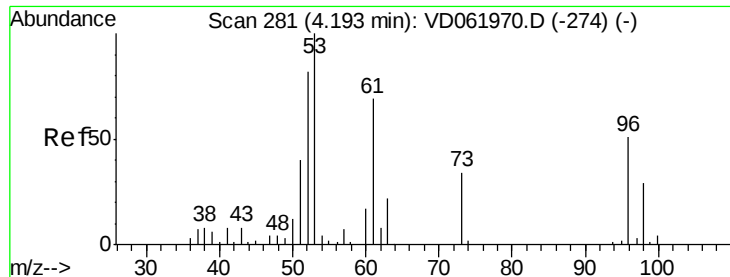
Tot Ion: 56 Resp: 11025
 Ion Ratio Lower Upper
 56 100
 55 71.9 51.4 77.2



#14
 Allyl chloride
 Concen: 11.837 ug/l
 RT: 3.61 min Scan# 222
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 41 Resp: 71764
 Ion Ratio Lower Upper
 41 100
 39 79.9 60.5 90.7
 76 36.2 31.8 47.8





#15

Acrylonitrile

Concen: 58.924 ug/l

RT: 4.17 min Scan# 279

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

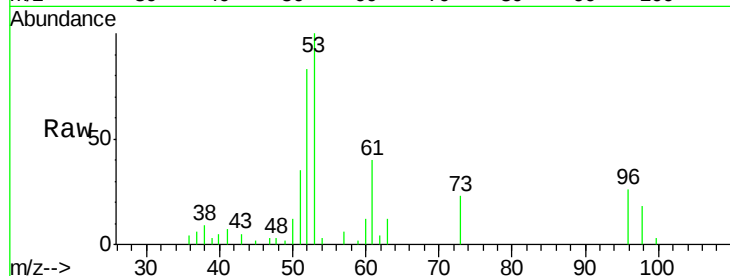
Tot Ion: 53 Resp: 43948

Ion Ratio Lower Upper

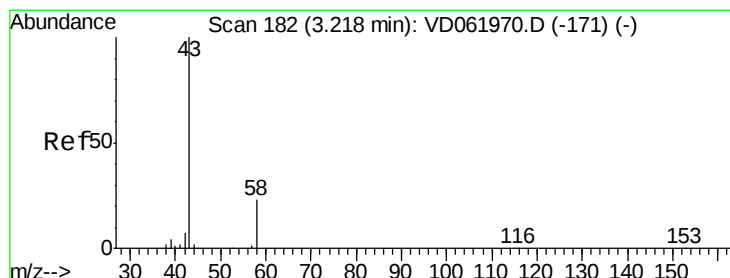
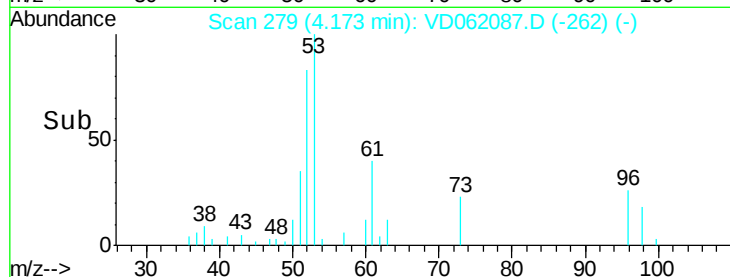
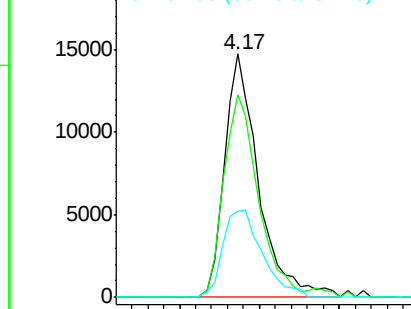
53 100

52 83.4 65.0 97.4

51 35.4 32.6 48.8



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



#16

Acetone

Concen: 60.365 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062087.D

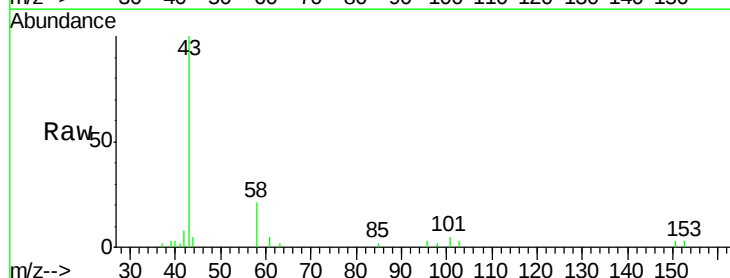
Acq: 30 Apr 2019 15:07

Tgt Ion: 43 Resp: 61444

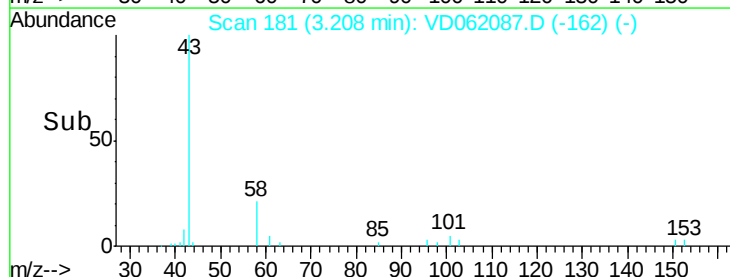
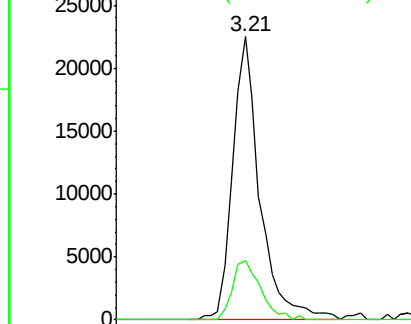
Ion Ratio Lower Upper

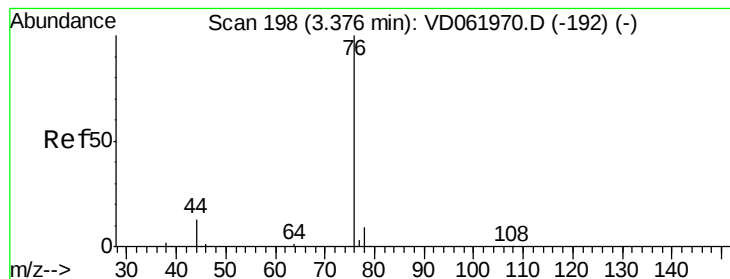
43 100

58 21.1 19.9 29.9



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





#17

Carbon Disulfide

Concen: 10.249 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

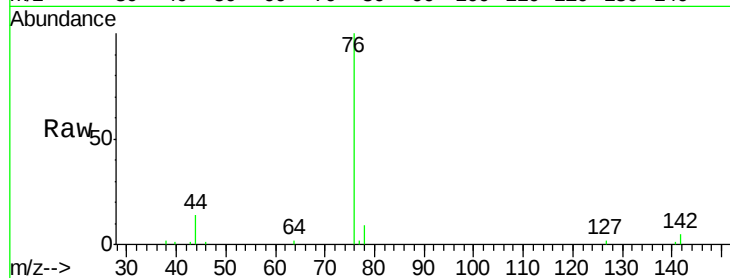
LOQ-SOIL-02-QT2-2019

Tot Ion: 76 Resp: 131497

Ion Ratio Lower Upper

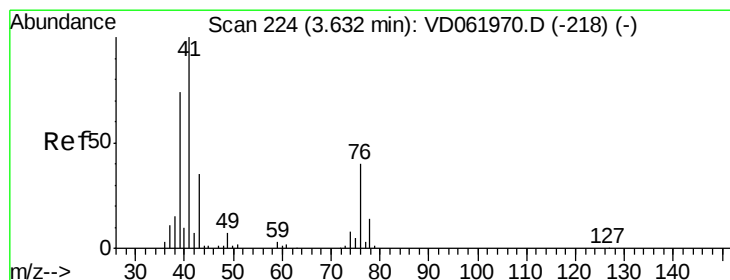
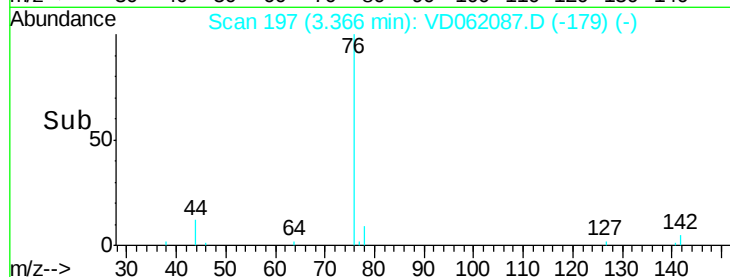
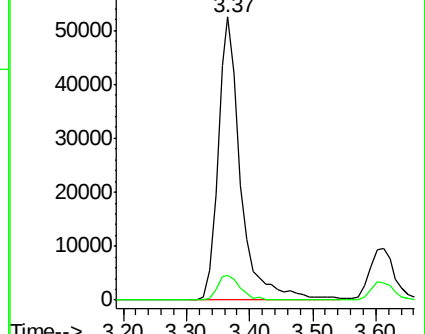
76 100

78 9.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 12.155 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD062087.D

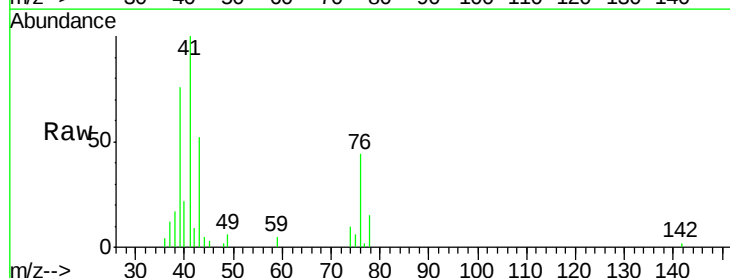
Acq: 30 Apr 2019 15:07

Tgt Ion: 43 Resp: 24896

Ion Ratio Lower Upper

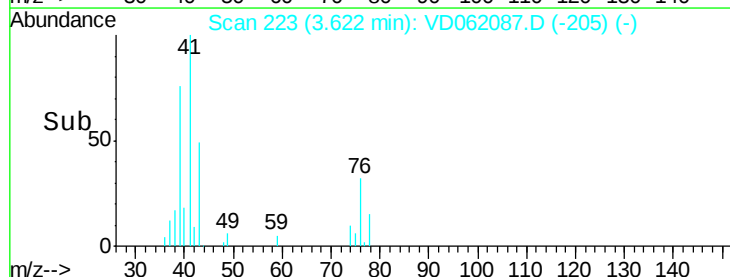
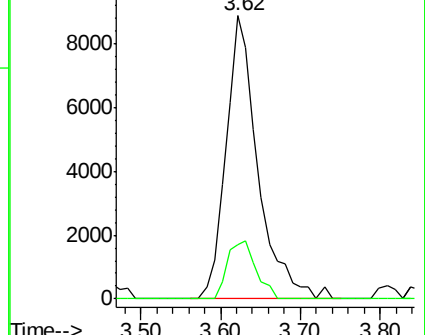
43 100

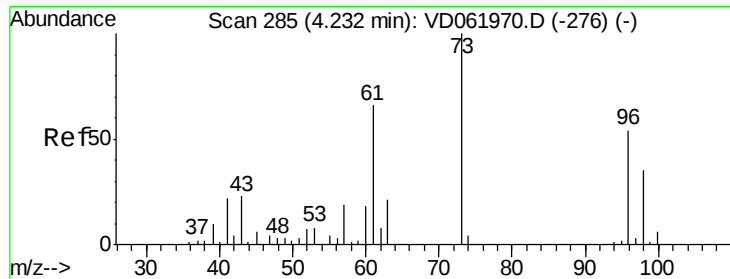
74 19.0 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

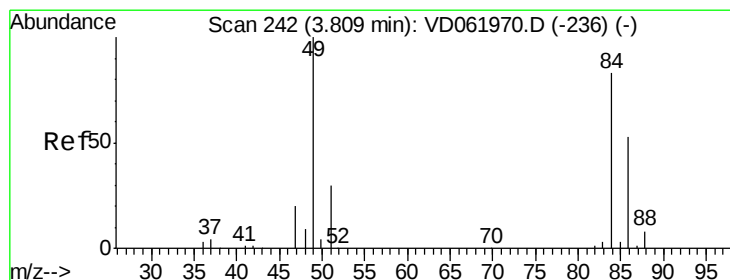
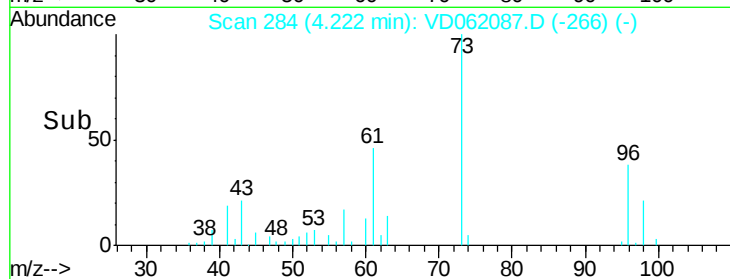
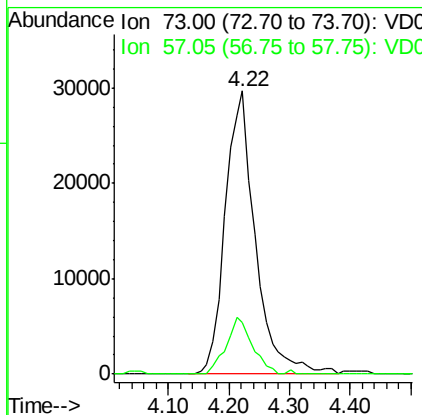
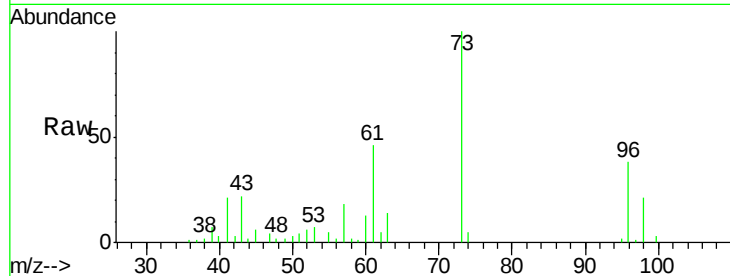




#19
Methyl tert-butyl Ether
Concen: 11.616 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

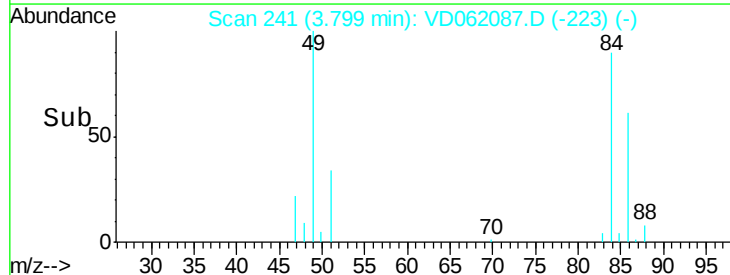
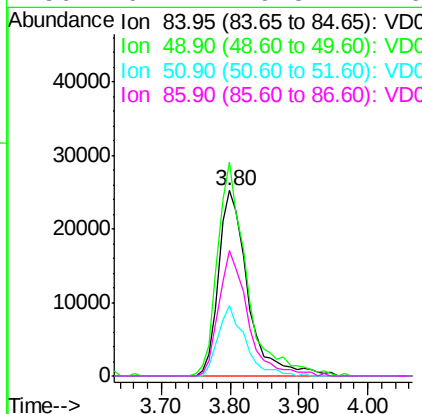
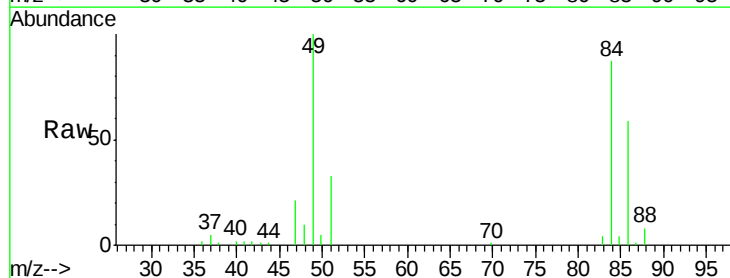
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

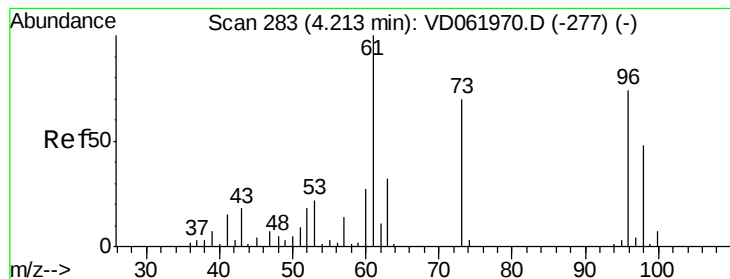
Tot Ion: 73 Resp: 102328
Ion Ratio Lower Upper
73 100
57 18.1 16.3 24.5



#20
Methylene Chloride
Concen: 13.184 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 84 Resp: 74389
Ion Ratio Lower Upper
84 100
49 115.3 94.0 141.0
51 38.1 29.0 43.4
86 67.7 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 11.222 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

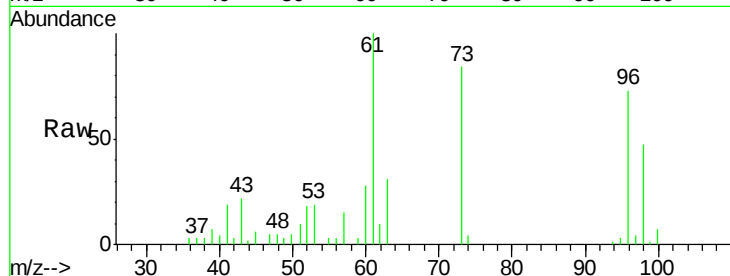
Tot Ion: 96 Resp: 57155

Ion Ratio Lower Upper

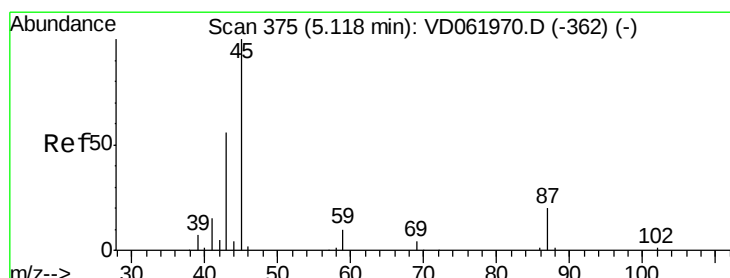
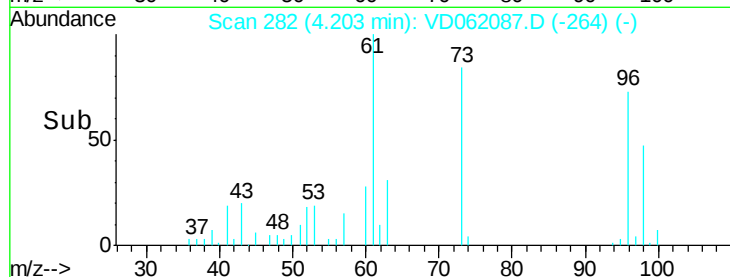
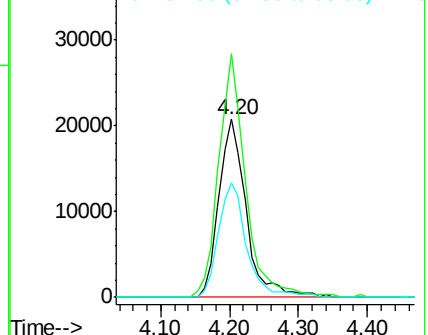
96 100

61 136.6 104.4 156.6

98 63.9 51.8 77.8



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: 10.381 ug/l

RT: 5.09 min Scan# 372

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Tgt Ion: 45 Resp: 146935

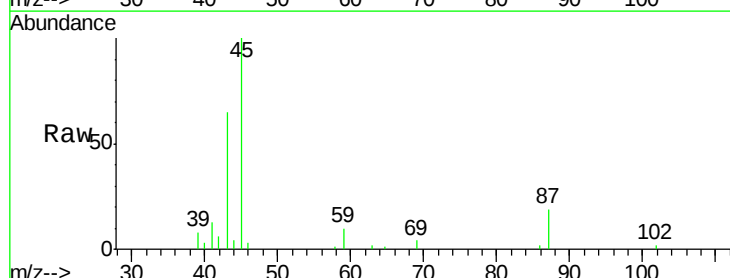
Ion Ratio Lower Upper

45 100

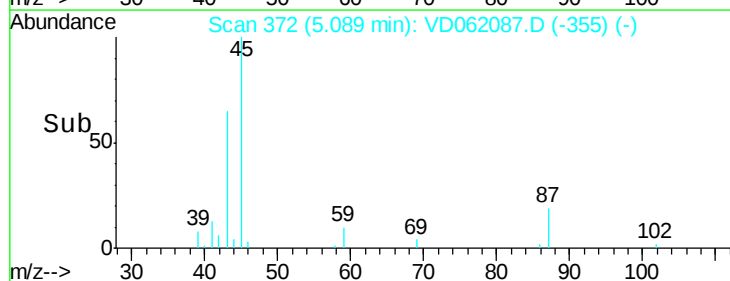
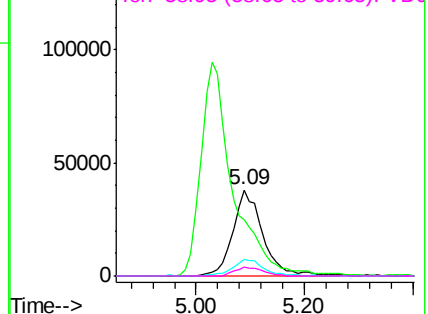
43 64.9 46.2 69.2

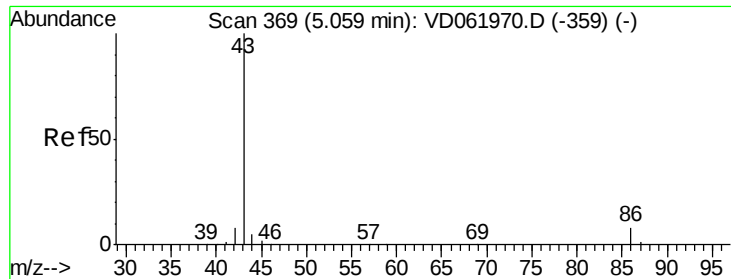
87 19.3 15.9 23.9

59 10.4 7.9 11.9



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: 52.502 ug/l

RT: 5.03 min Scan# 366

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

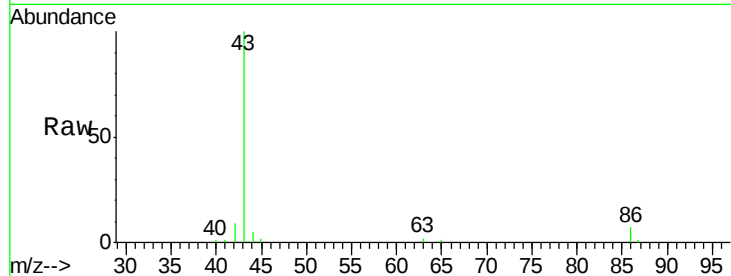
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 386993

Ion Ratio Lower Upper

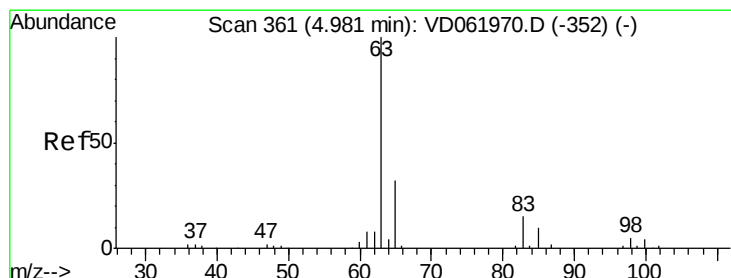
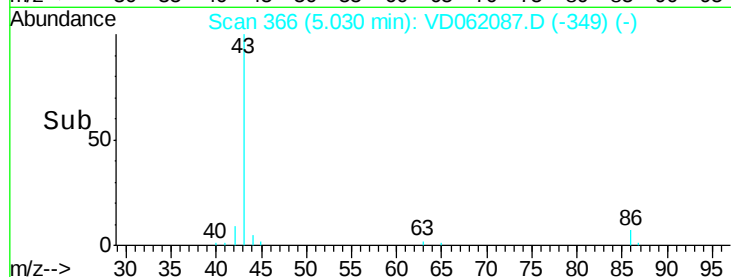
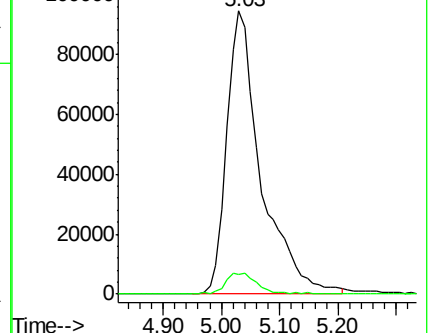
43 100

86 7.1 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 11.074 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

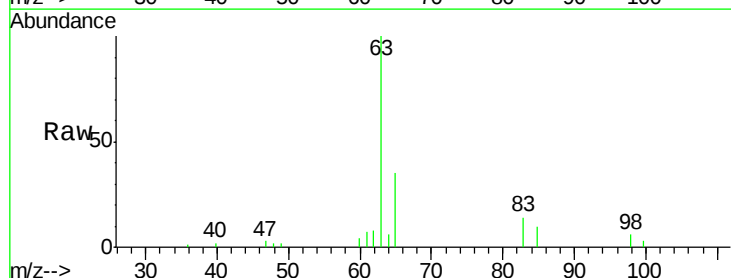
Tgt Ion: 63 Resp: 94738

Ion Ratio Lower Upper

63 100

98 5.8 2.8 8.4

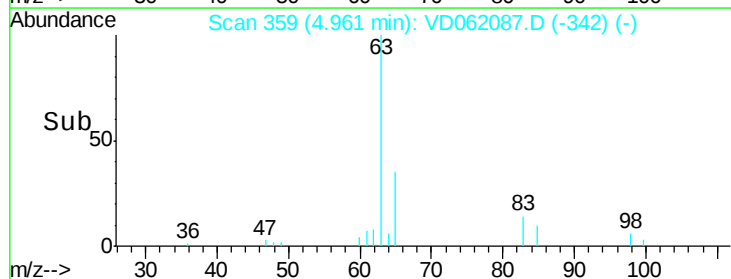
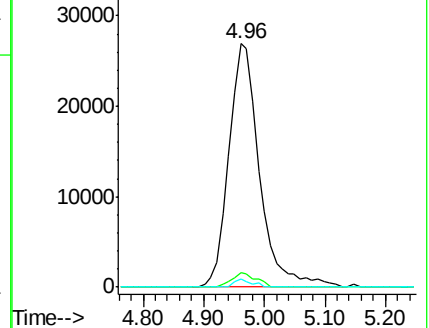
100 3.2 1.8 5.5

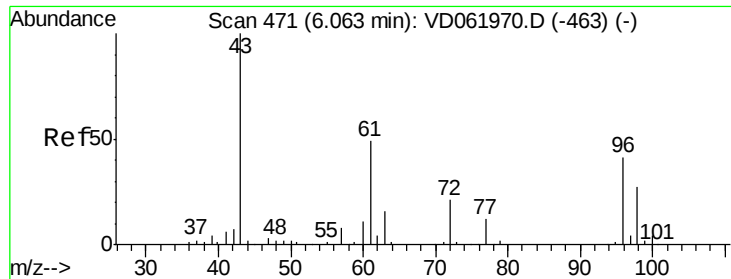


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 50.613 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

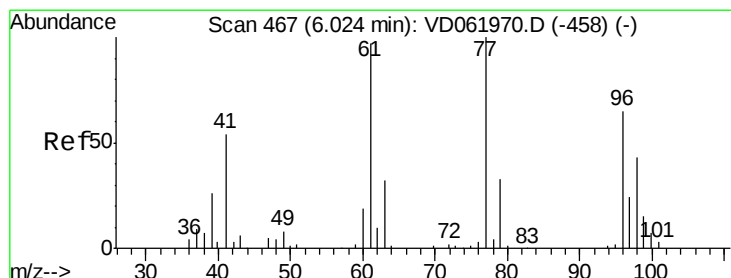
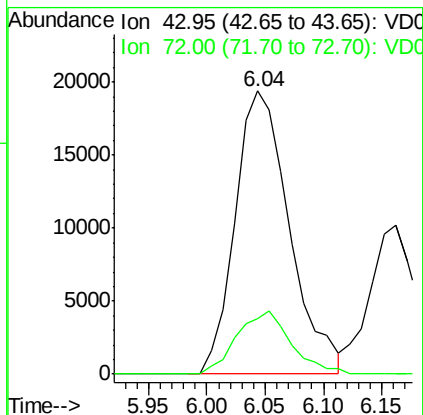
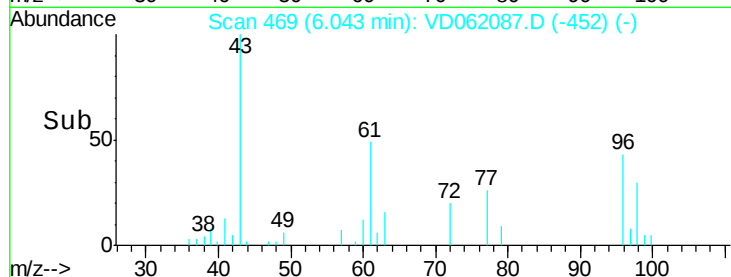
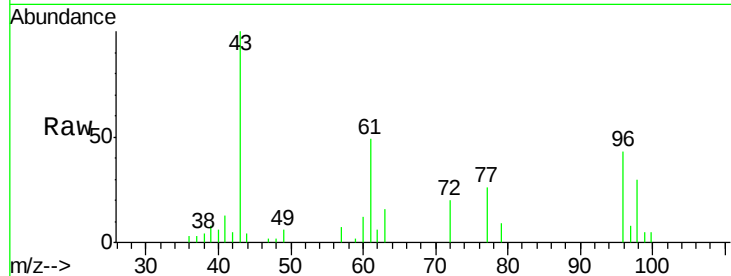
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 62462

Ion Ratio Lower Upper

43 100

72 19.8 16.2 24.4



#26

2,2-Dichloropropane

Concen: 10.757 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.02 min

Lab File: VD062087.D

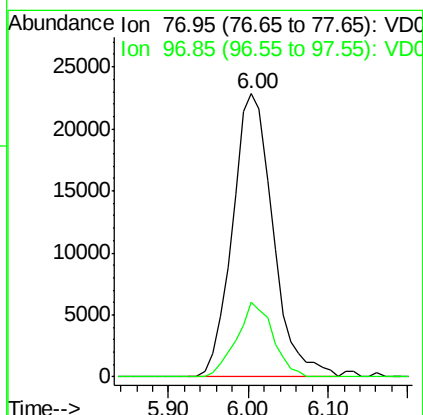
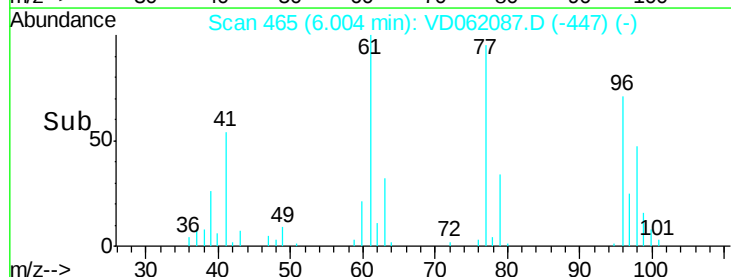
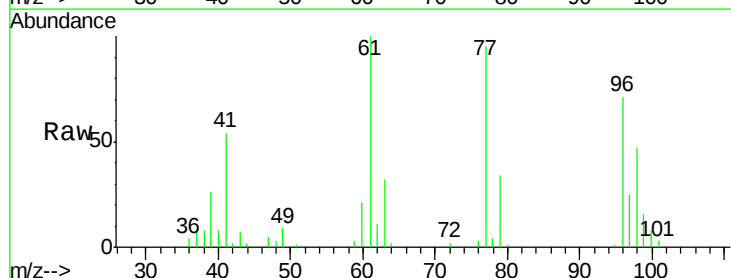
Acq: 30 Apr 2019 15:07

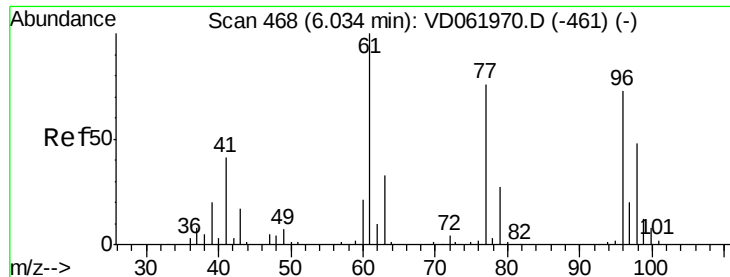
Tgt Ion: 77 Resp: 80283

Ion Ratio Lower Upper

77 100

97 26.6 11.9 35.9



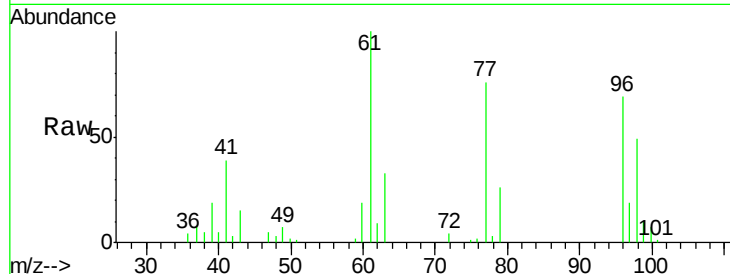


#27

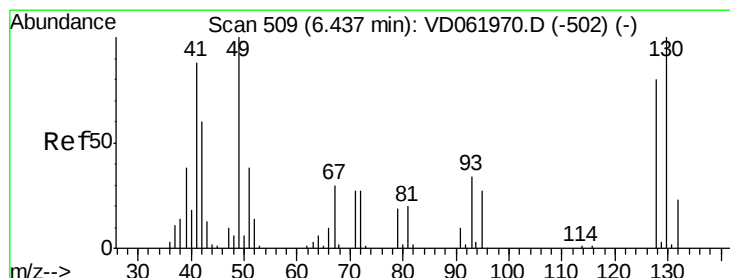
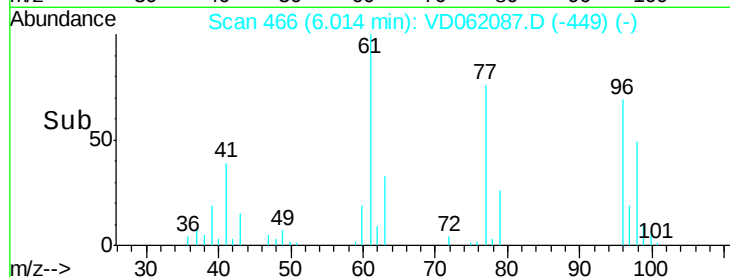
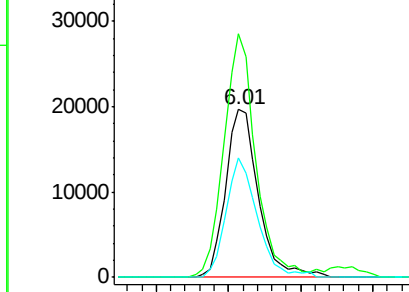
cis-1,2-Dichloroethene
 Concen: 10.763 ug/l
 RT: 6.01 min Scan# 466
 Delta R.T. -0.03 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion: 96 Resp: 62365
 Ion Ratio Lower Upper
 96 100
 61 145.4 0.0 279.8
 98 71.3 0.0 136.0



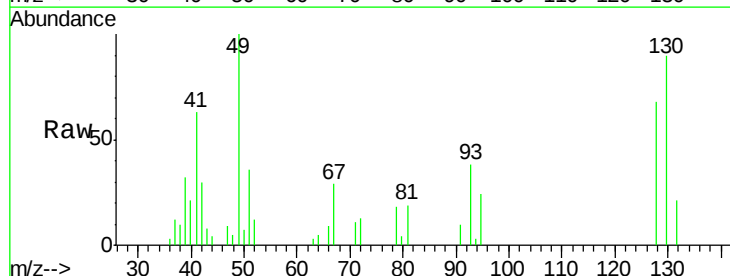
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



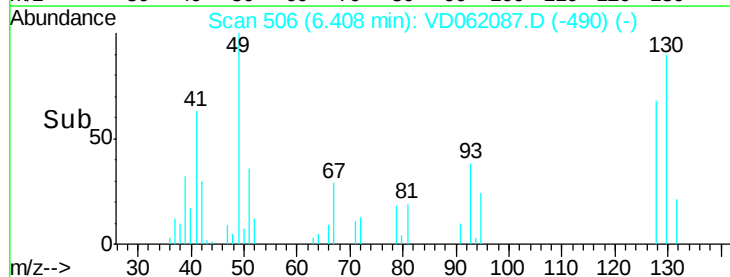
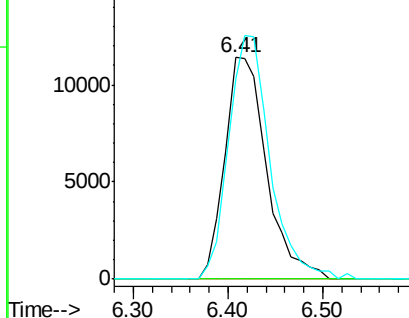
#28

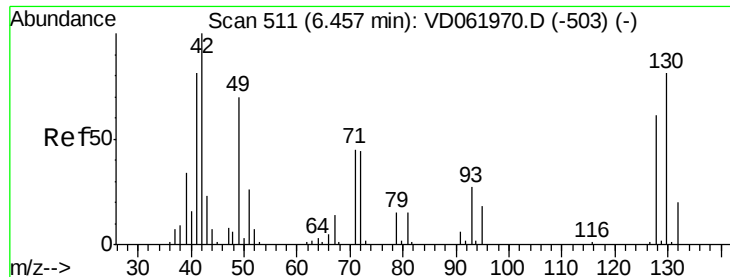
Bromochloromethane
 Concen: 10.676 ug/l
 RT: 6.41 min Scan# 506
 Delta R.T. -0.04 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 49 Resp: 34948
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 6.6
 130 90.3 86.7 130.1



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: 50.176 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

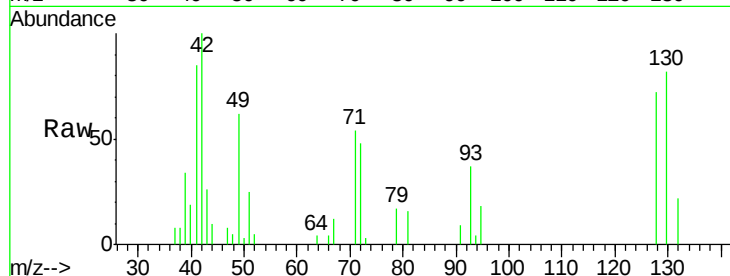
Tot Ion: 42 Resp: 30511

Ion Ratio Lower Upper

42 100

72 46.1 37.8 56.6

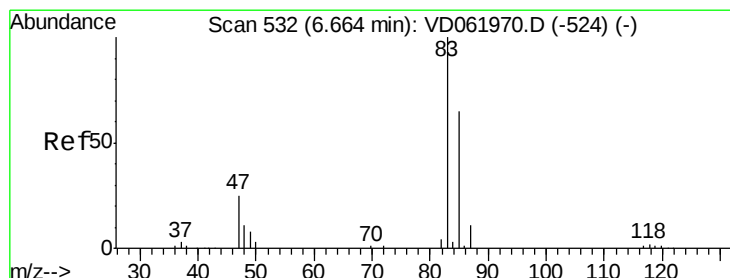
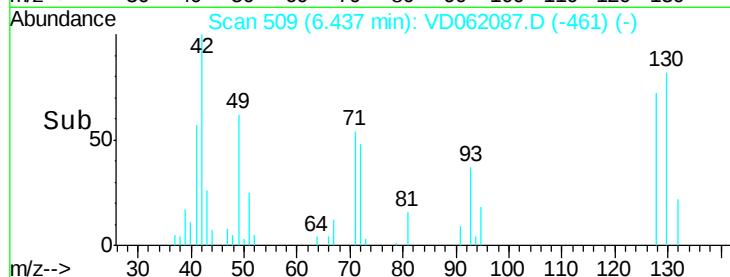
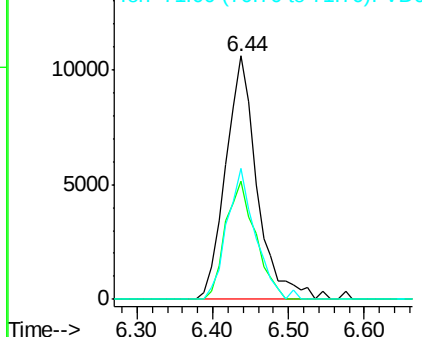
71 48.8 36.7 55.1



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 11.268 ug/l

RT: 6.64 min Scan# 530

Delta R.T. -0.03 min

Lab File: VD062087.D

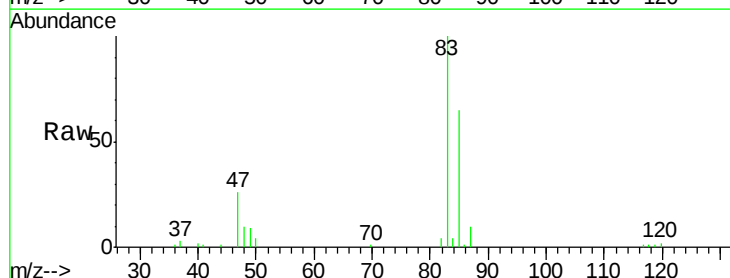
Acq: 30 Apr 2019 15:07

Tgt Ion: 83 Resp: 109492

Ion Ratio Lower Upper

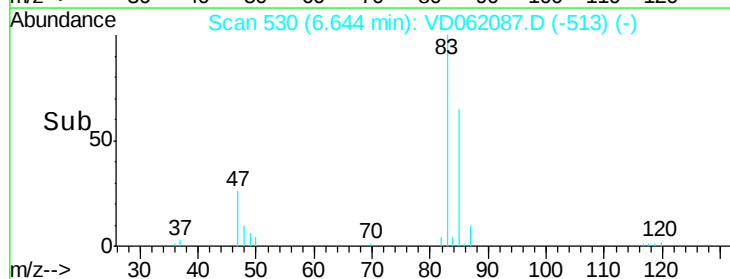
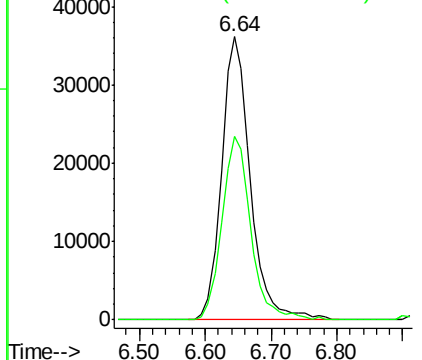
83 100

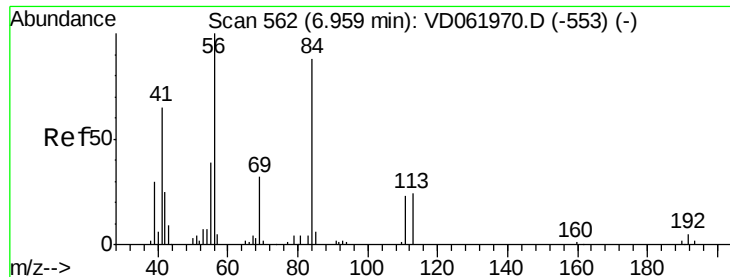
85 64.7 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

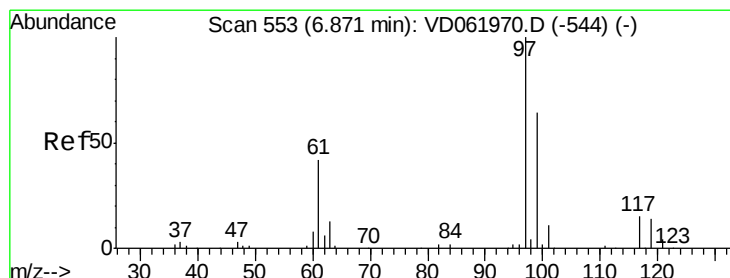
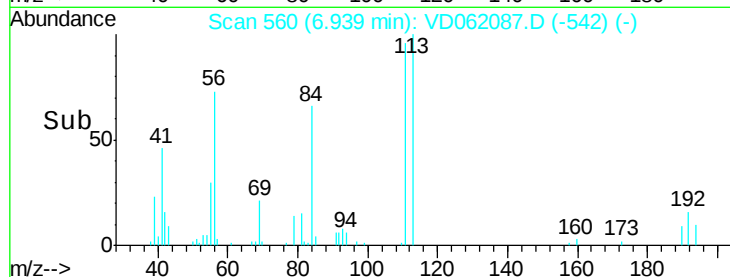
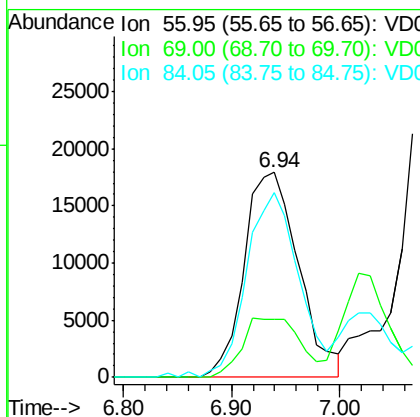
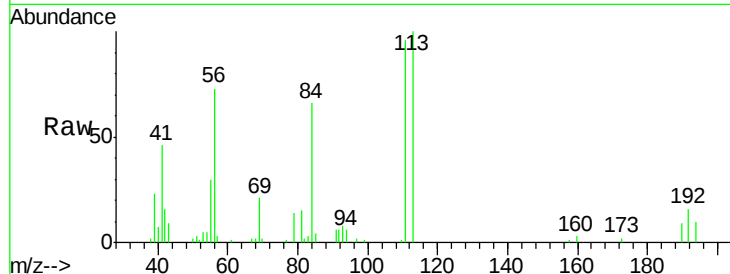




#31
Cyclohexane
Concen: 9.914 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

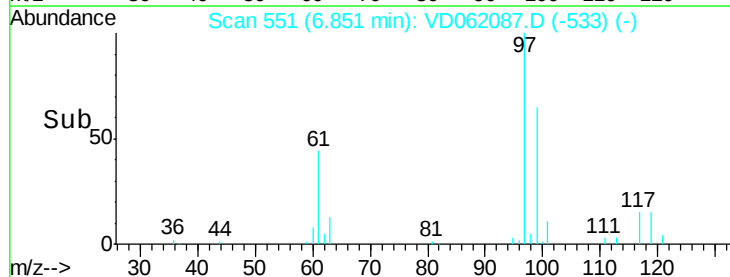
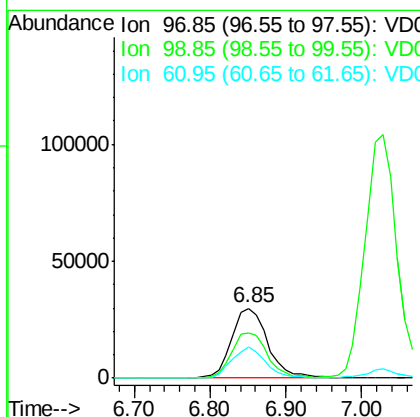
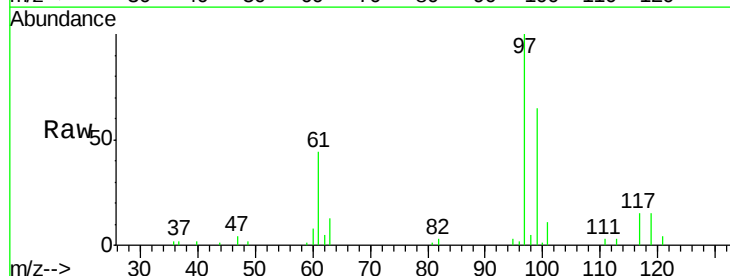
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

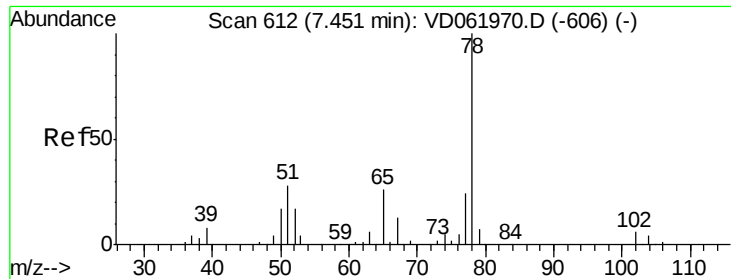
Tot Ion: 56 Resp: 62951
Ion Ratio Lower Upper
56 100
69 28.2 25.8 38.6
84 90.0 72.2 108.4



#32
1,1,1-Trichloroethane
Concen: 11.658 ug/l
RT: 6.85 min Scan# 551
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 97 Resp: 98565
Ion Ratio Lower Upper
97 100
99 64.6 52.2 78.2
61 44.2 32.4 48.6





#33

1,2-Dichloroethane-d4

Concen: 56.988 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

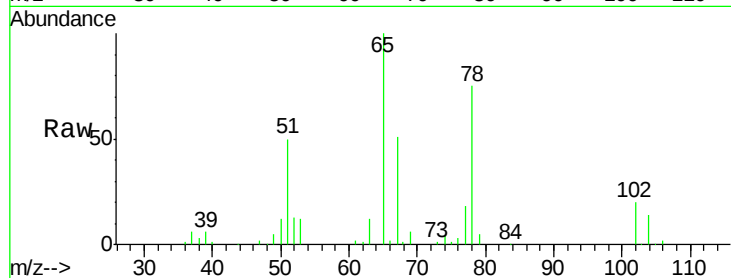
LOQ-SOIL-02-QT2-2019

Tot Ion: 65 Resp: 242941

Ion Ratio Lower Upper

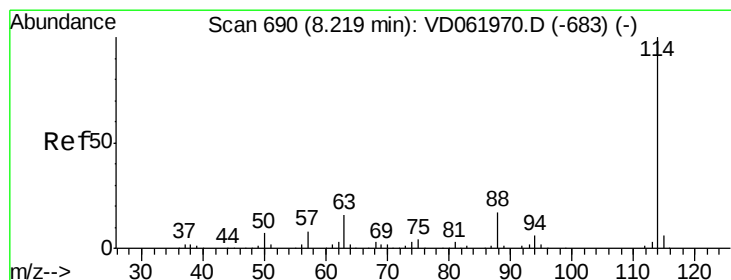
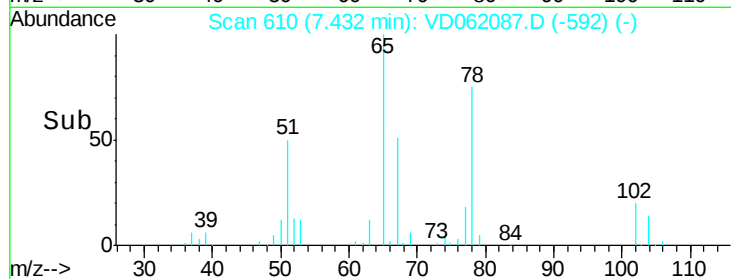
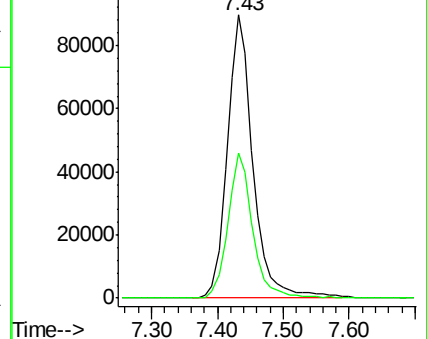
65 100

67 51.1 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

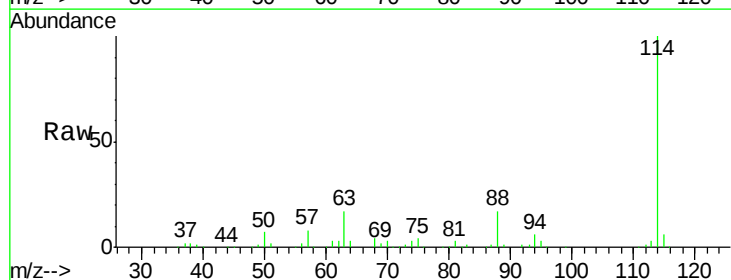
Tgt Ion: 114 Resp: 826472

Ion Ratio Lower Upper

114 100

63 16.7 0.0 32.4

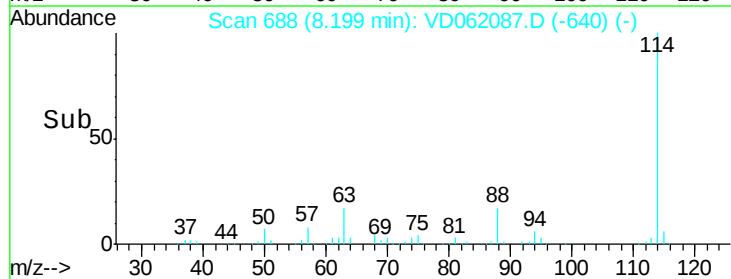
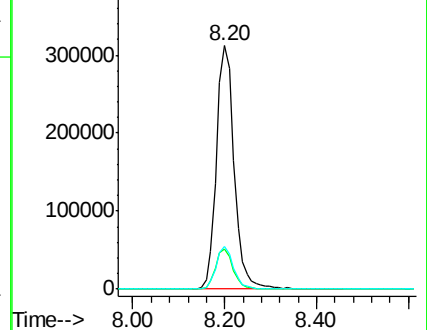
88 17.5 0.0 33.6

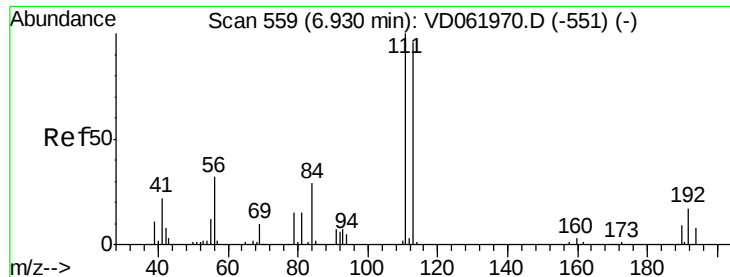


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 57.803 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

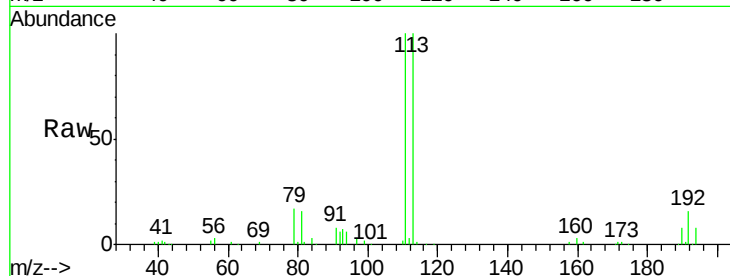
Tot Ion:113 Resp: 330396

Ion Ratio Lower Upper

113 100

111 100.3 78.5 117.7

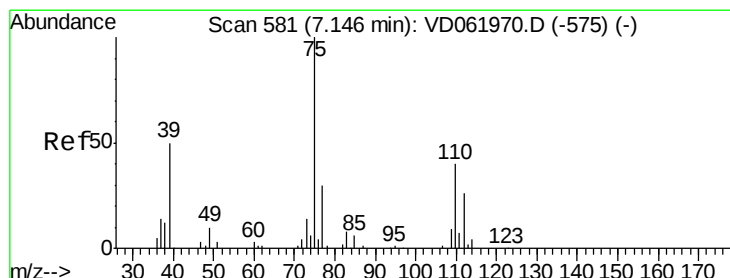
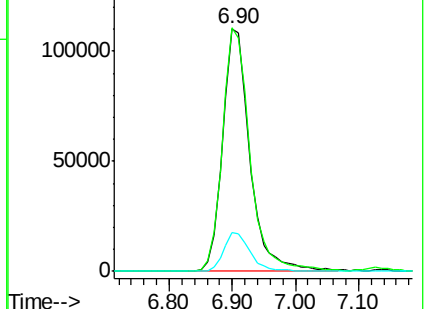
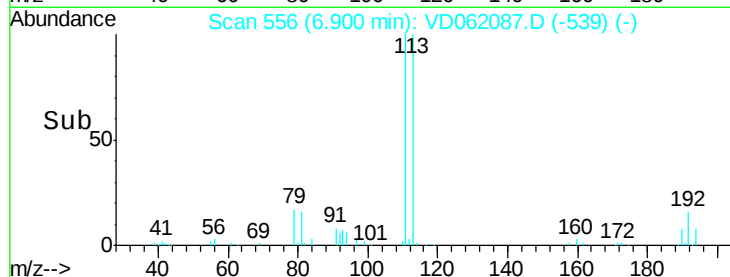
192 15.8 13.0 19.4



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: 11.409 ug/l

RT: 7.13 min Scan# 579

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

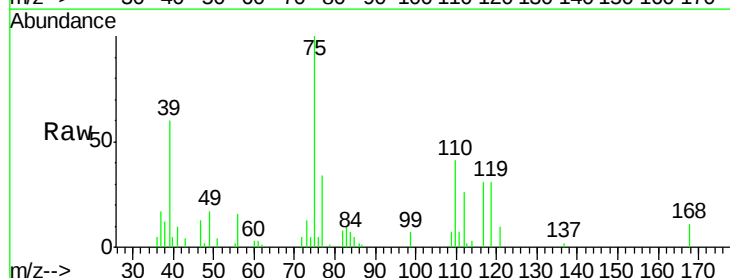
Tgt Ion: 75 Resp: 73467

Ion Ratio Lower Upper

75 100

110 40.9 19.1 57.1

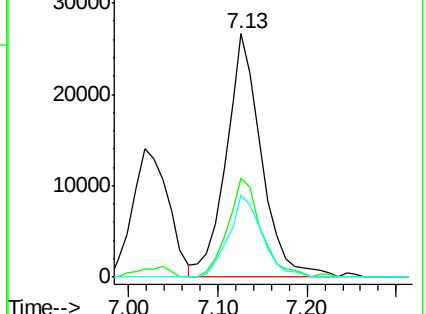
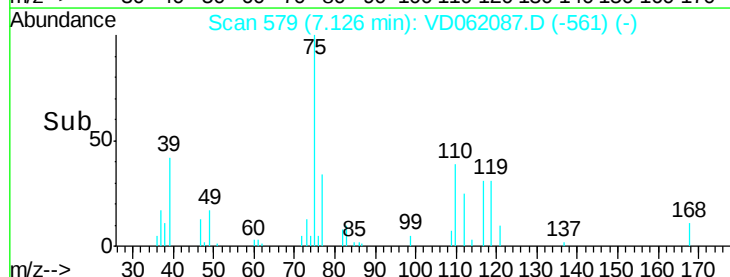
77 33.6 25.6 38.4

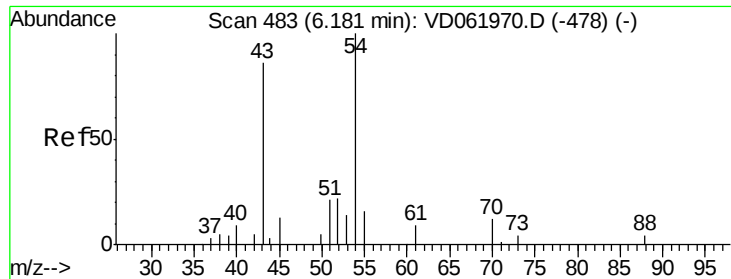


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

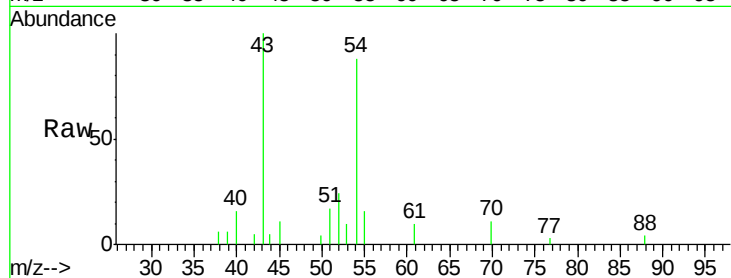




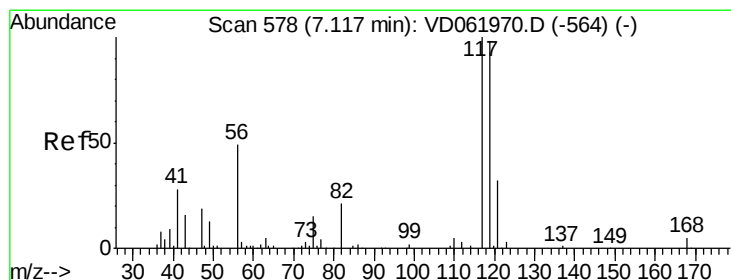
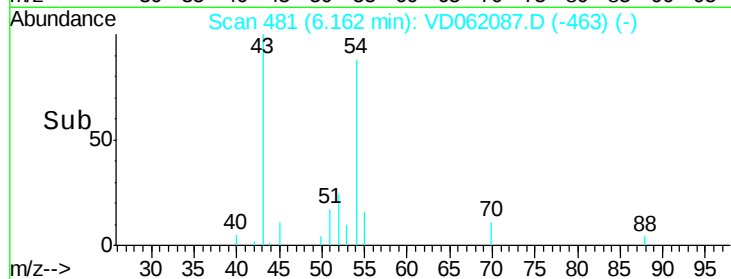
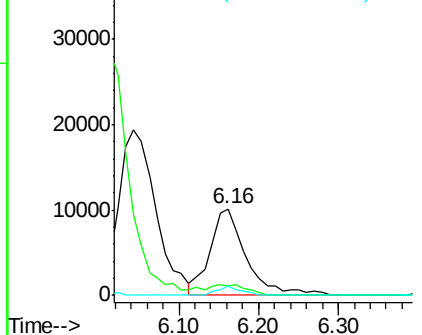
#37
Ethyl Acetate
Concen: 11.754 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 32251
Ion Ratio Lower Upper
43 100
61 10.2 14.7 22.1#
70 10.6 7.8 11.6

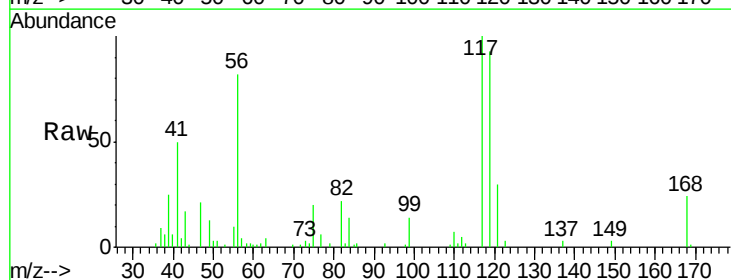


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

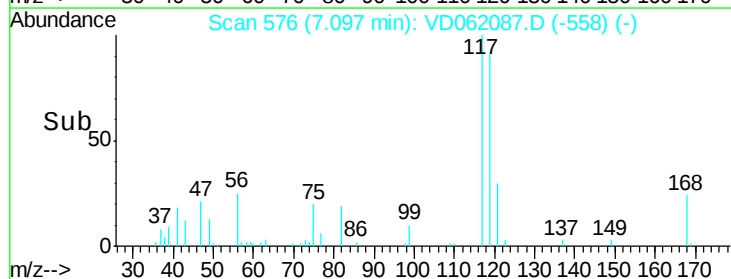
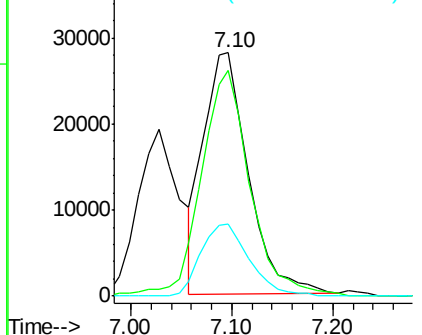


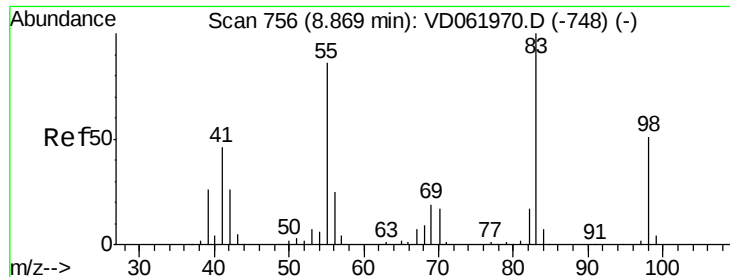
#38
Carbon Tetrachloride
Concen: 10.647 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 117 Resp: 86873
Ion Ratio Lower Upper
117 100
119 92.5 75.8 113.8
121 29.6 25.9 38.9



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

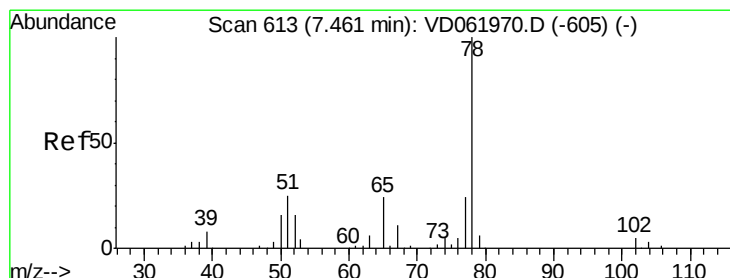
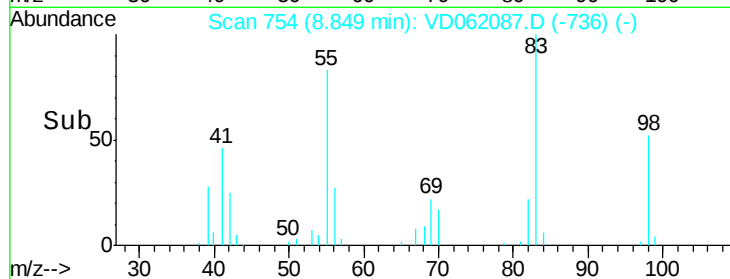
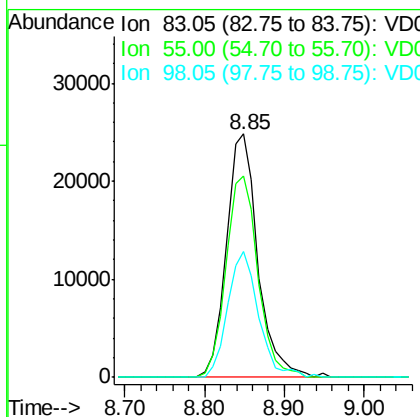
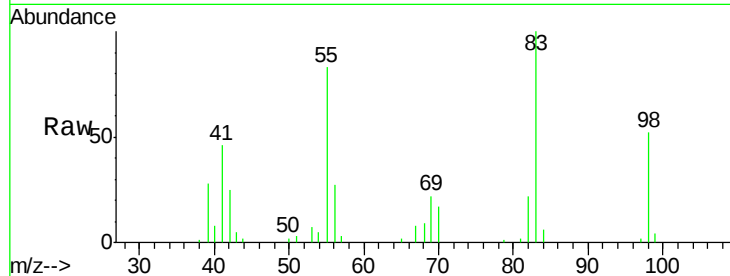




#39
Methvlcvclohexane
Concen: 10.794 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

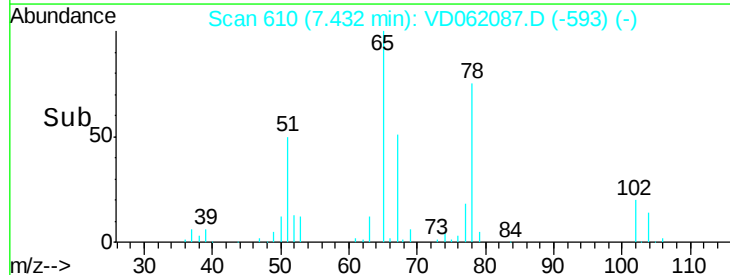
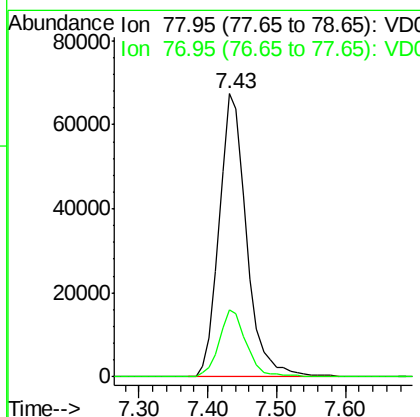
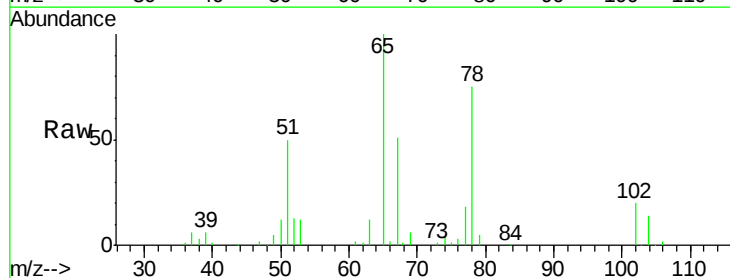
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

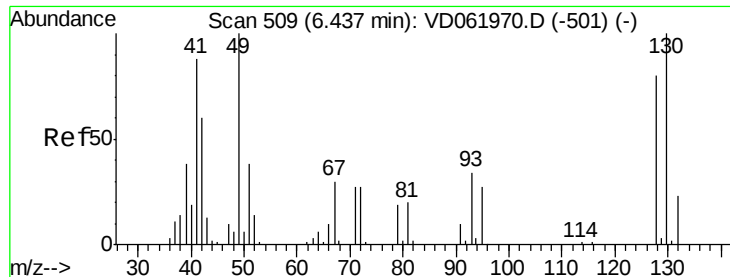
Tot Ion: 83 Resp: 68571
Ion Ratio Lower Upper
83 100
55 83.0 68.2 102.4
98 51.8 38.2 57.4



#40
Benzene
Concen: 11.625 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.03 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 78 Resp: 185315
Ion Ratio Lower Upper
78 100
77 23.7 19.7 29.5

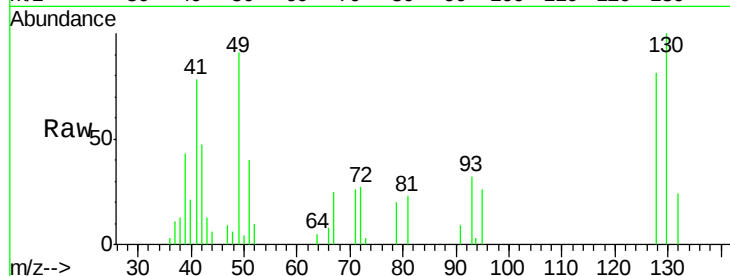




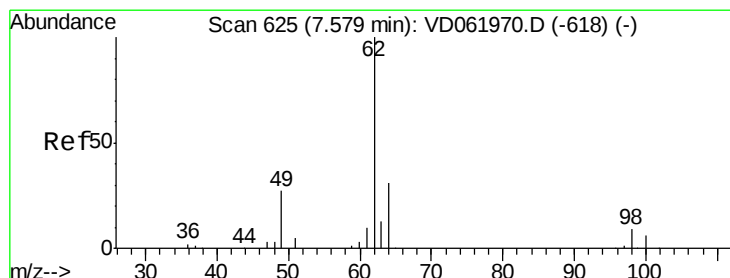
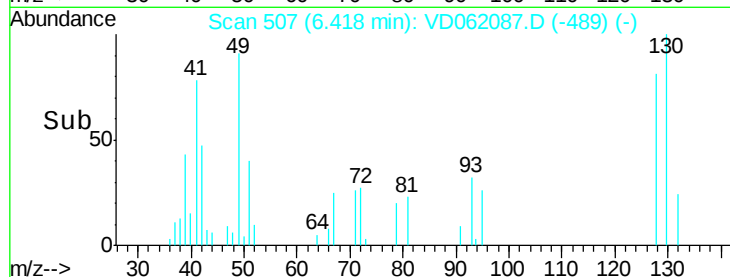
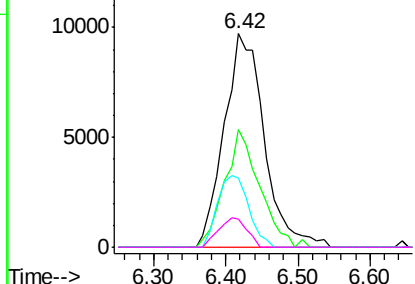
#41
Methacrylonitrile
Concen: 11.745 ug/l
RT: 6.42 min Scan# 507
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 41 Resp: 37602
Ion Ratio Lower Upper
41 100
39 55.3 34.1 51.1#
67 32.3 23.8 35.6
52 13.4 8.8 13.2#

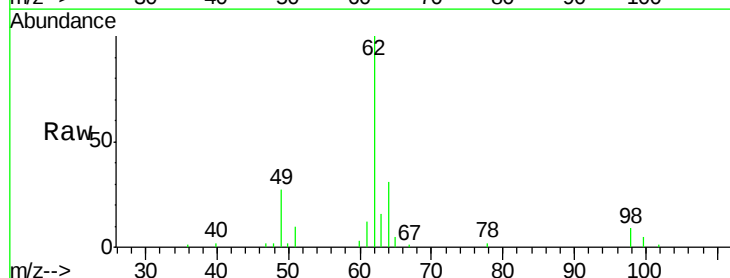


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

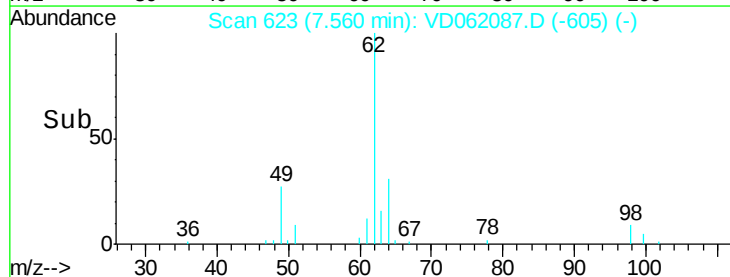
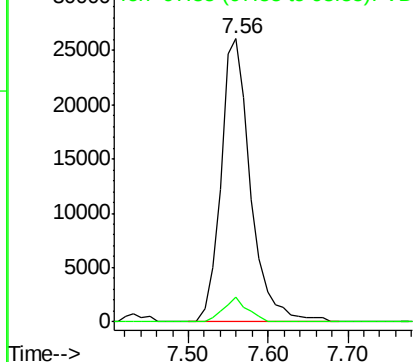


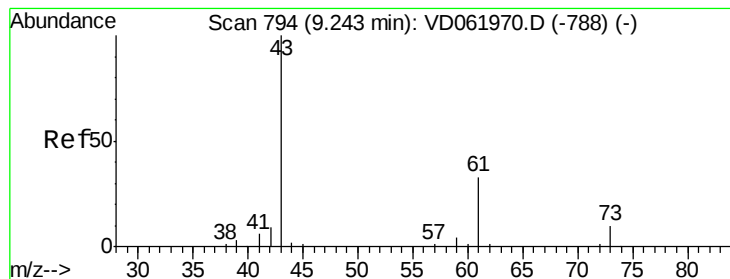
#42
1,2-Dichloroethane
Concen: 12.532 ug/l
RT: 7.56 min Scan# 623
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 62 Resp: 67831
Ion Ratio Lower Upper
62 100
98 8.6 0.0 17.8



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





#43

Isopropyl Acetate

Concen: 11.011 ug/l

RT: 9.22 min Scan# 792

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

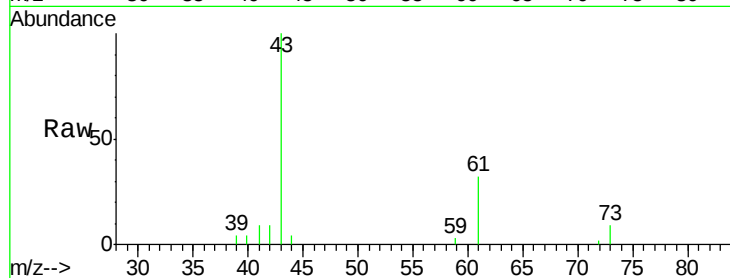
Tot Ion: 43 Resp: 44147

Ion Ratio Lower Upper

43 100

61 31.6 25.1 37.7

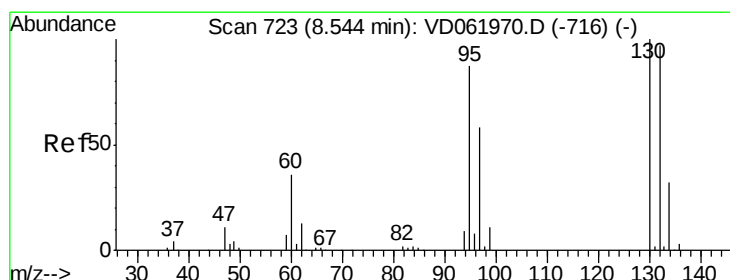
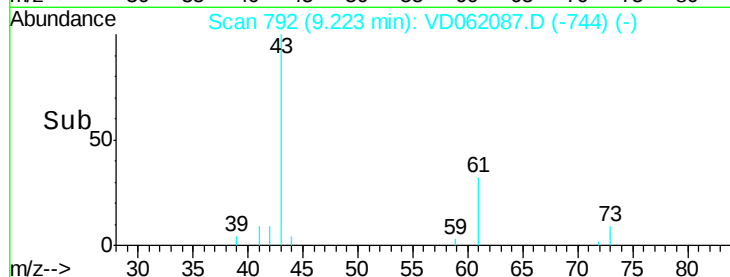
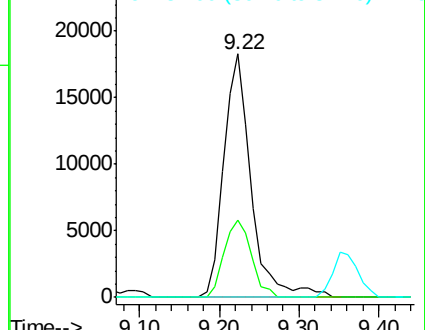
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 10.965 ug/l

RT: 8.52 min Scan# 721

Delta R.T. -0.02 min

Lab File: VD062087.D

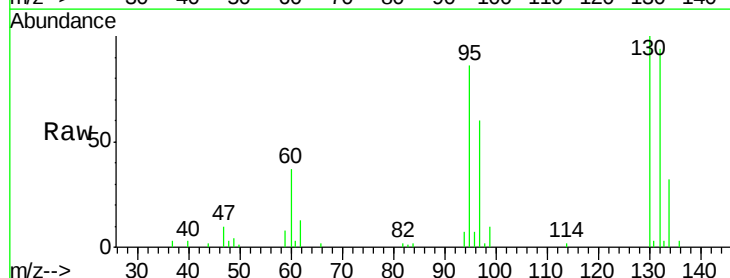
Acq: 30 Apr 2019 15:07

Tgt Ion: 130 Resp: 67764

Ion Ratio Lower Upper

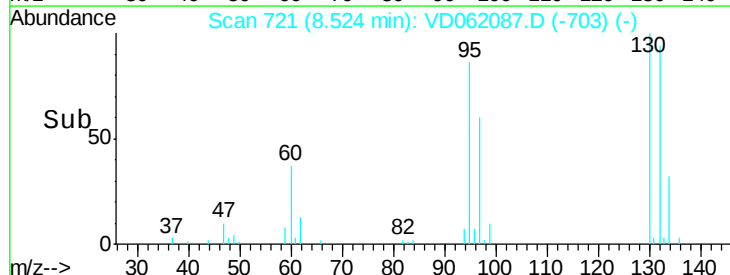
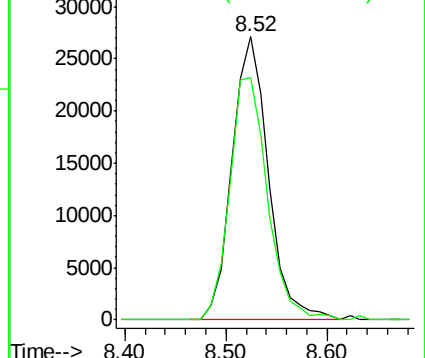
130 100

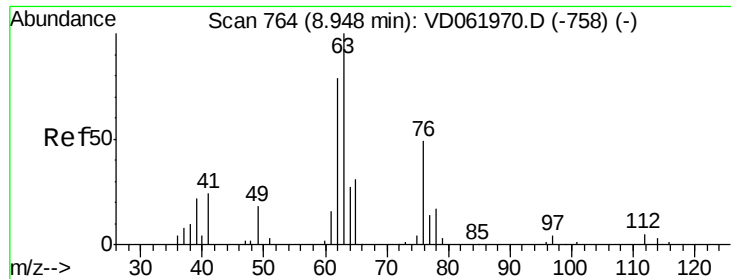
95 85.8 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 11.497 ug/l

RT: 8.92 min Scan# 761

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

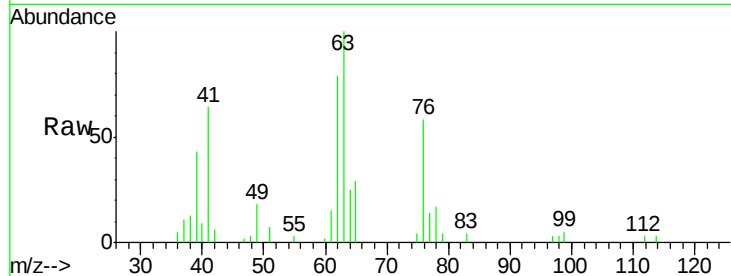
LOQ-SOIL-02-QT2-2019

Tot Ion: 63 Resp: 46494

Ion Ratio Lower Upper

63 100

65 28.7 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.92

20000

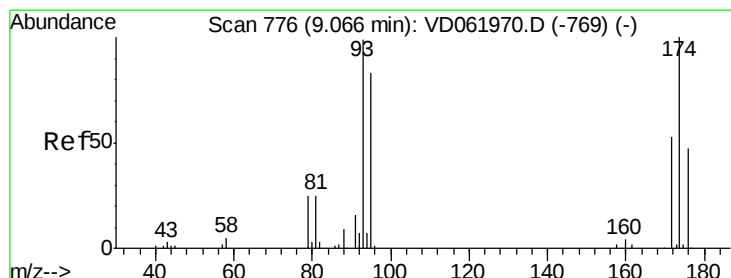
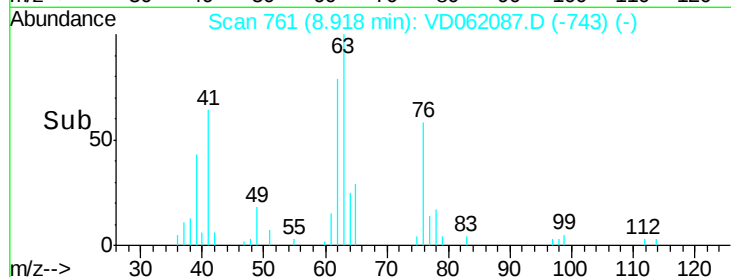
15000

10000

5000

0

Time--> 8.80 8.90 9.00



#46

Dibromomethane

Concen: 10.901 ug/l

RT: 9.05 min Scan# 774

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

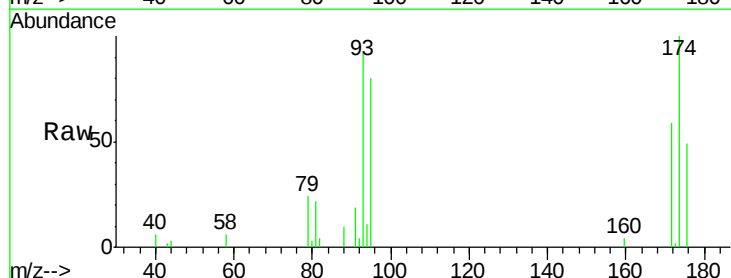
Tgt Ion: 93 Resp: 31722

Ion Ratio Lower Upper

93 100

95 86.1 64.8 97.2

174 108.3 79.3 118.9



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

9.05

20000

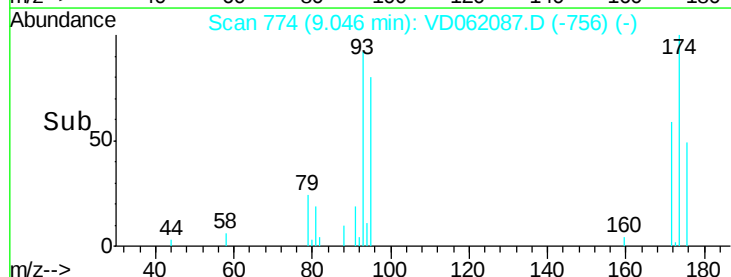
15000

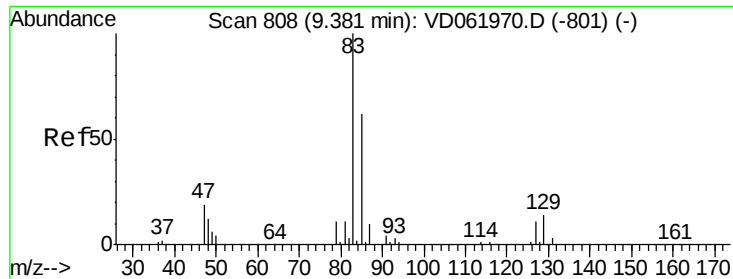
10000

5000

0

Time--> 9.00 9.10





#47

Bromodichloromethane

Concen: 11.100 ug/l

RT: 9.35 min Scan# 805

Delta R.T. -0.03 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

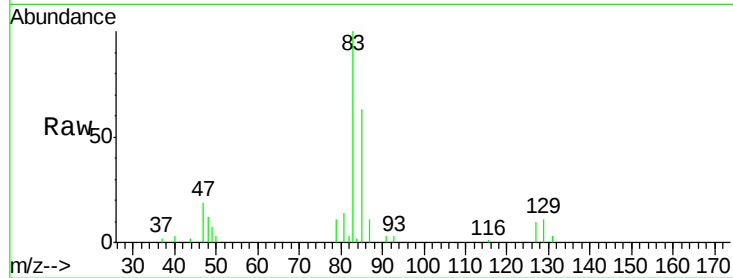
Tot Ion: 83 Resp: 76321

Ion Ratio Lower Upper

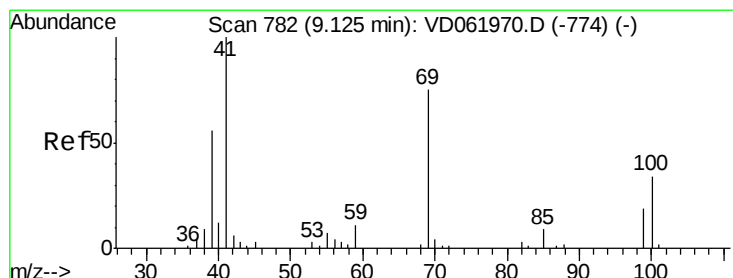
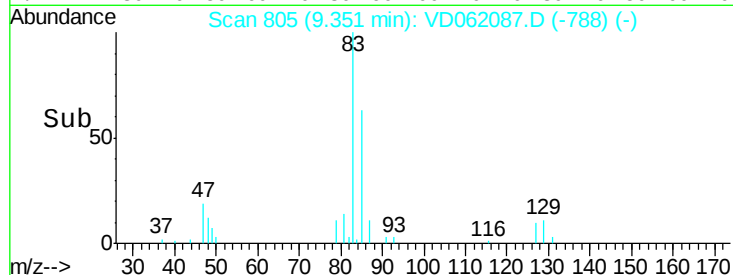
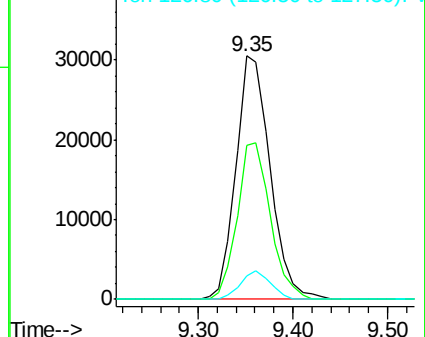
83 100

85 63.0 50.9 76.3

127 9.9 8.1 12.1



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



#48

Methyl methacrylate

Concen: 11.876 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.02 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

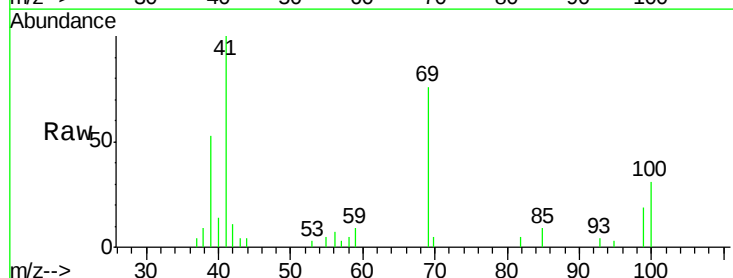
Tgt Ion: 41 Resp: 27166

Ion Ratio Lower Upper

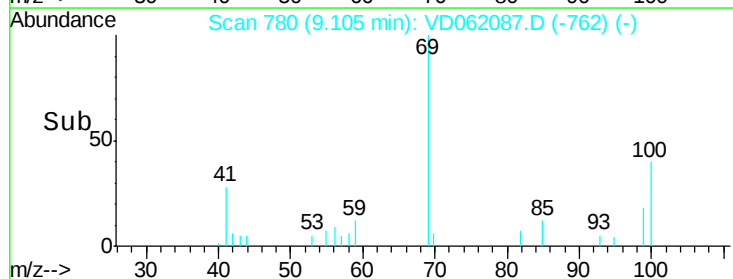
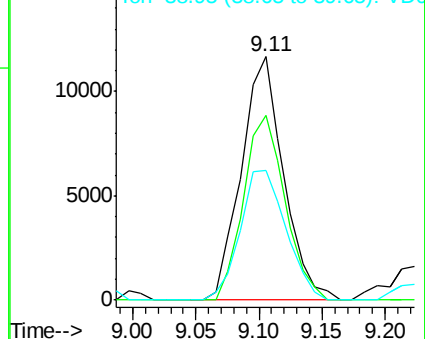
41 100

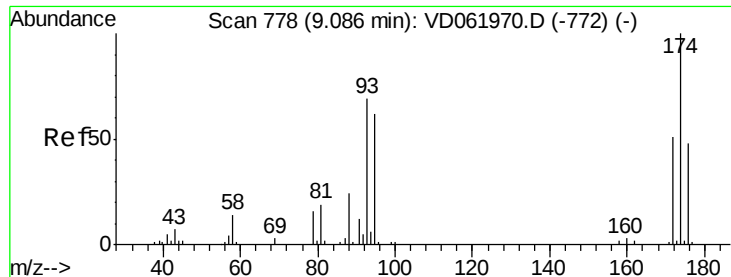
69 76.1 64.2 96.2

39 53.4 46.8 70.2



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

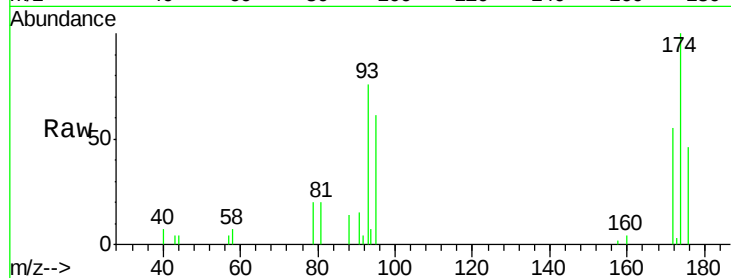




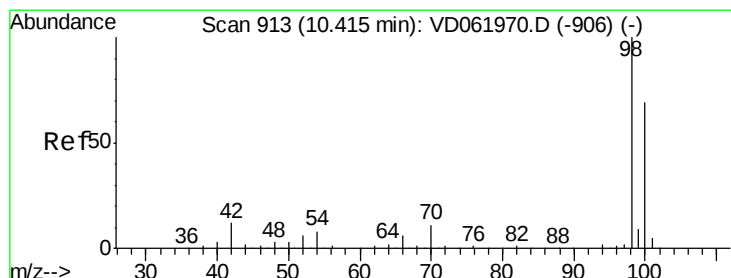
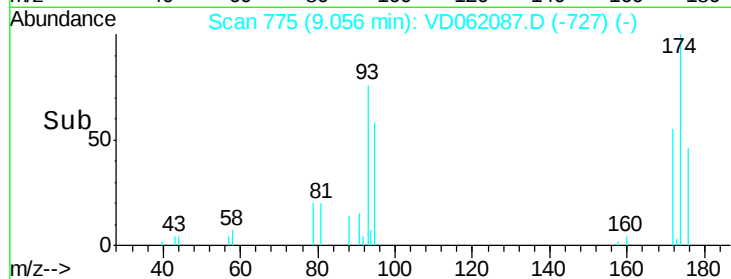
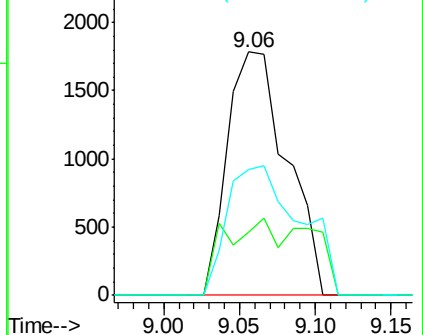
#49
1,4-Dioxane
Concen: 197.996 ug/l
RT: 9.06 min Scan# 775
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 88 Resp: 4883
Ion Ratio Lower Upper
88 100
43 26.1 23.4 35.0
58 51.5 44.0 66.0

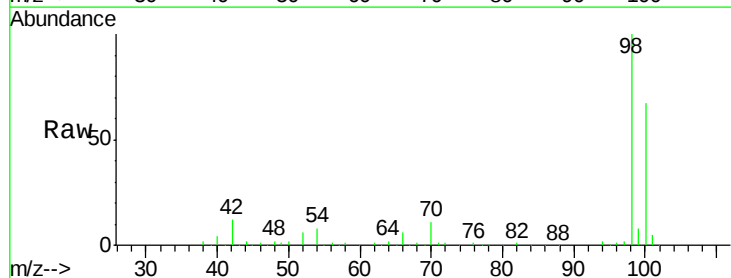


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

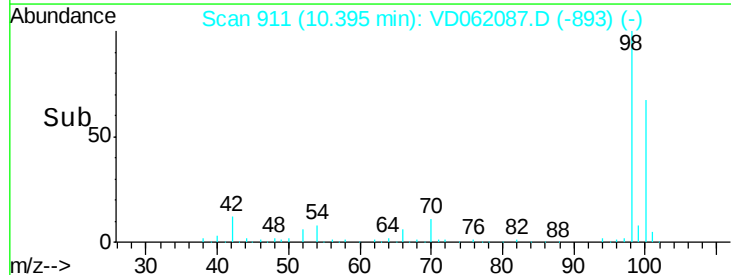
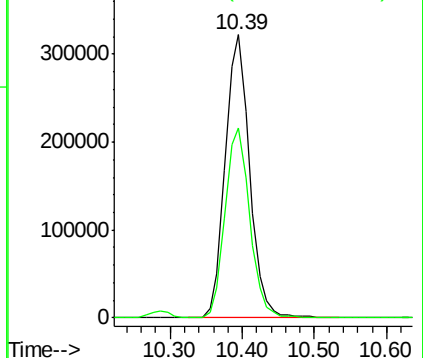


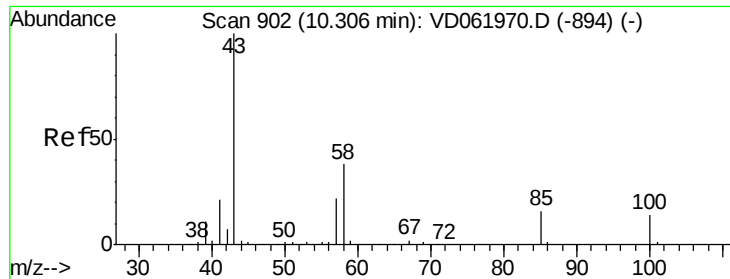
#50
Toluene-d8
Concen: 55.683 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 98 Resp: 757340
Ion Ratio Lower Upper
98 100
100 67.3 53.8 80.8



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





#51

4-Methyl-2-Pentanone

Concen: 58.617 ug/l

RT: 10.29 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

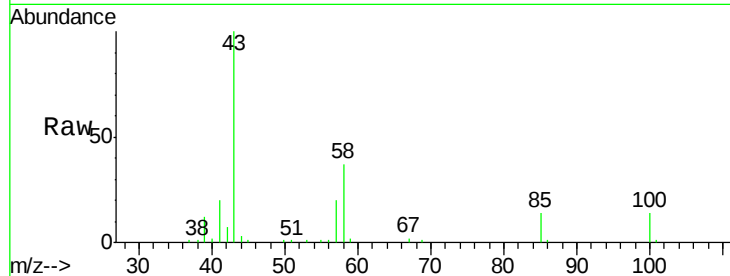
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 143723

Ion Ratio Lower Upper

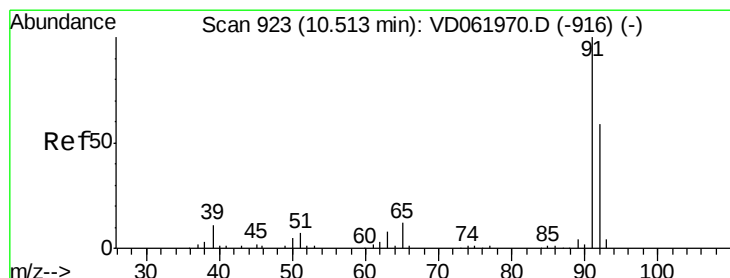
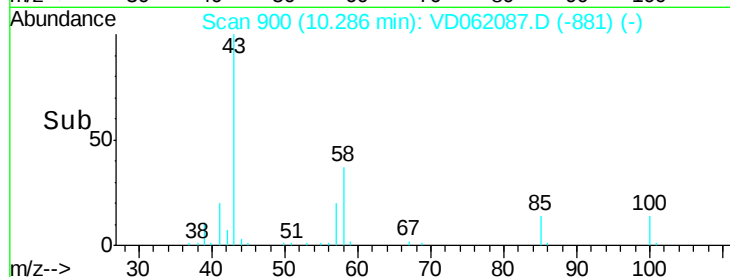
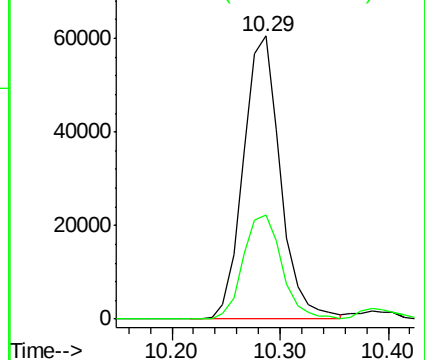
43 100

58 37.0 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 12.887 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.02 min

Lab File: VD062087.D

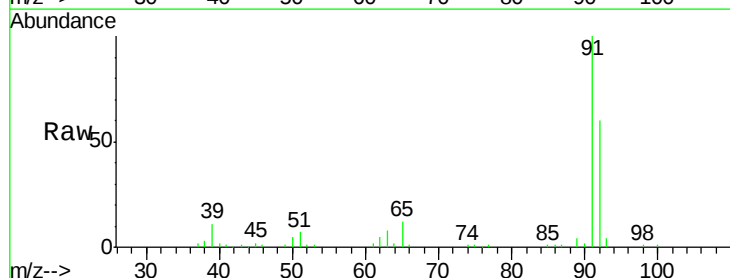
Acq: 30 Apr 2019 15:07

Tgt Ion: 92 Resp: 130982

Ion Ratio Lower Upper

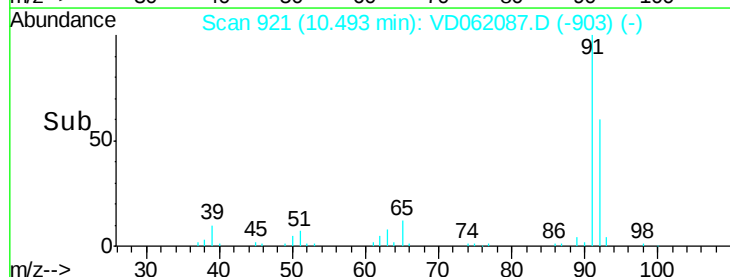
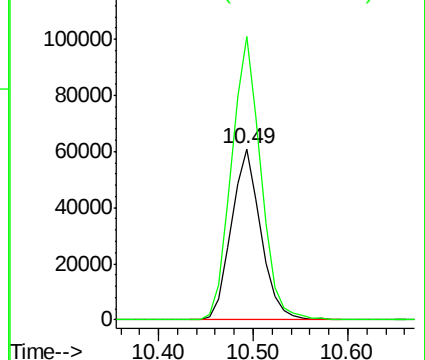
92 100

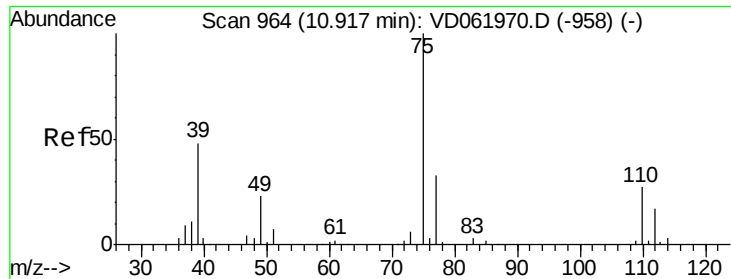
91 165.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

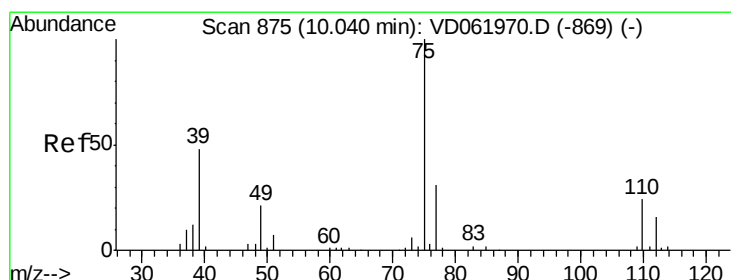
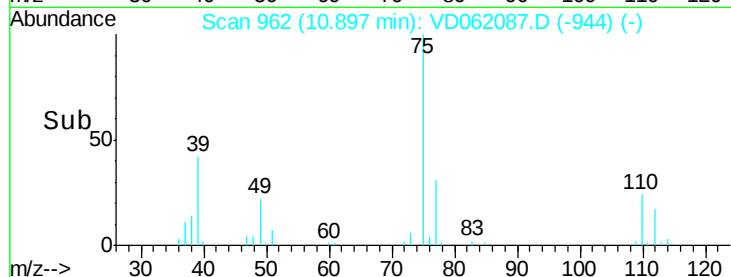
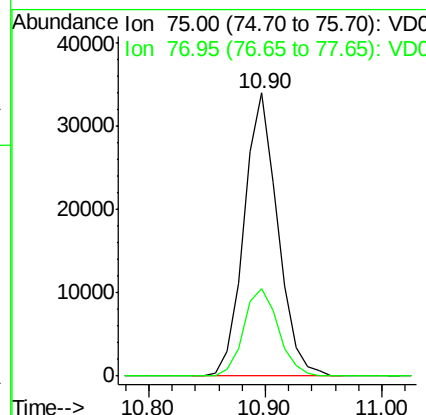
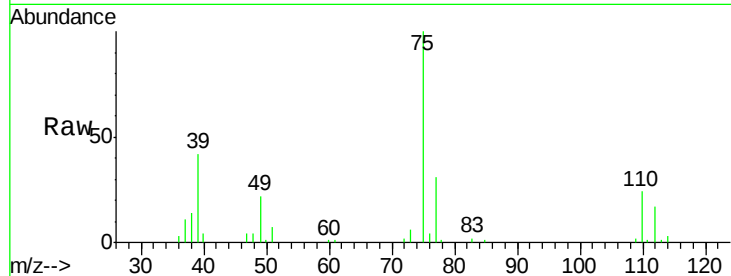




#53
 t-1,3-Dichloropropene
 Concen: 11.724 ug/l
 RT: 10.90 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

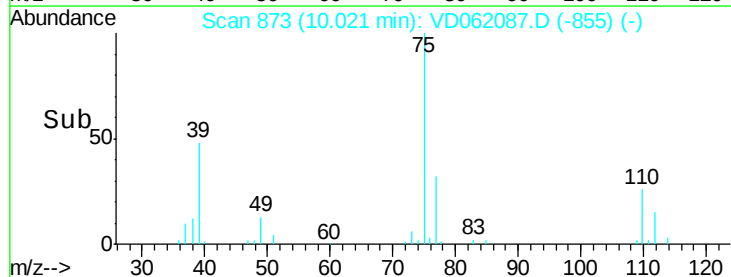
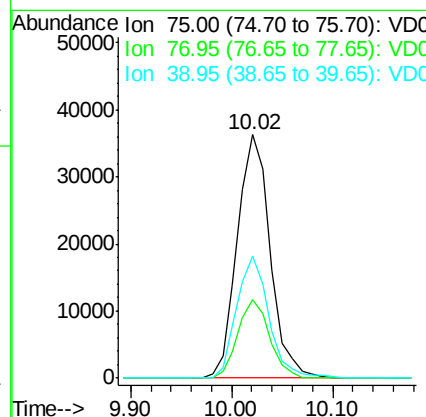
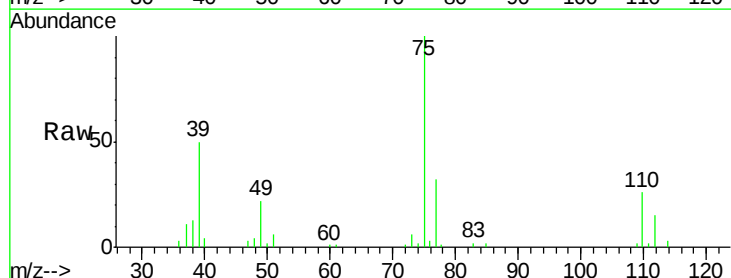
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

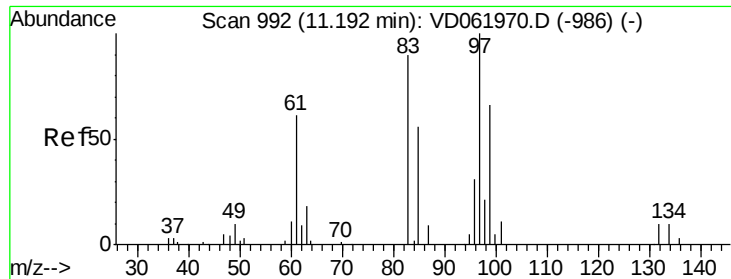
Tot Ion: 75 Resp: 67664
 Ion Ratio Lower Upper
 75 100
 77 30.9 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 11.725 ug/l
 RT: 10.02 min Scan# 873
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 75 Resp: 82303
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.5 38.3
 39 50.2 39.4 59.2

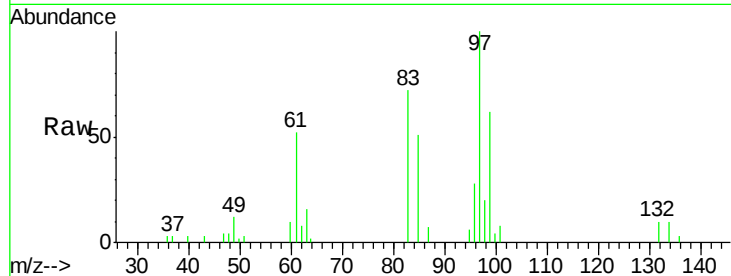




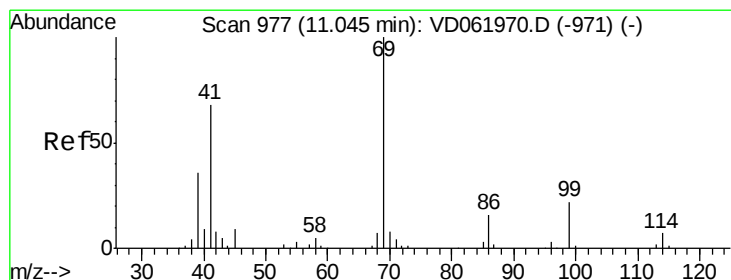
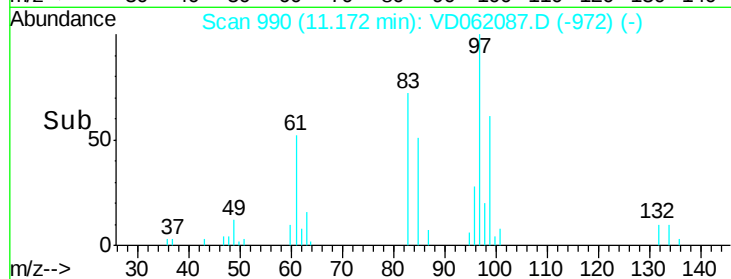
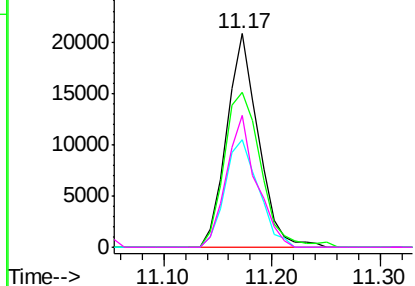
#55
 1,1,2-Trichloroethane
 Concen: 12.377 ug/l
 RT: 11.17 min Scan# 990
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion:	97	Resp:	42236
Ion	Ratio	Lower	Upper
97	100		
83	72.3	65.7	98.5
85	50.6	45.6	68.4
99	62.0	48.4	72.6

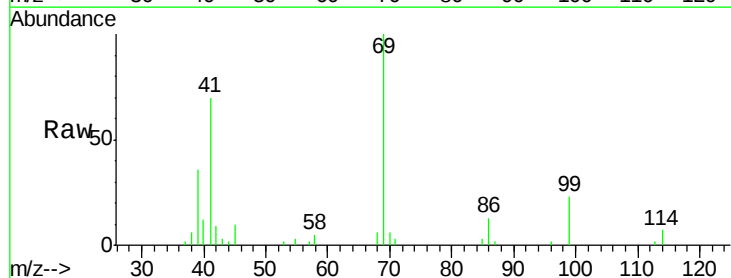


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

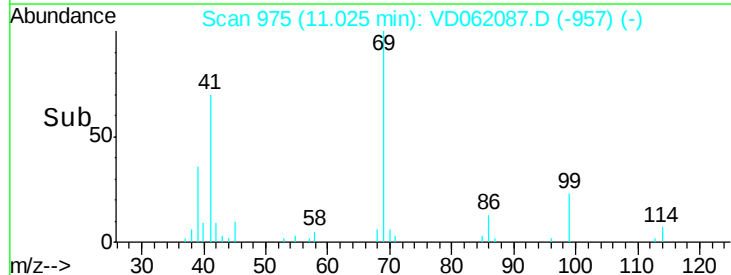
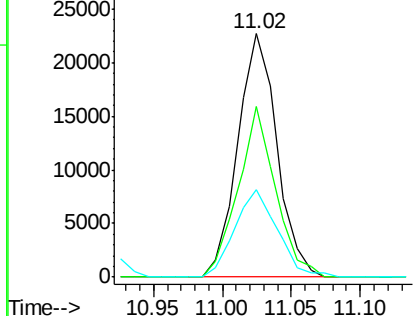


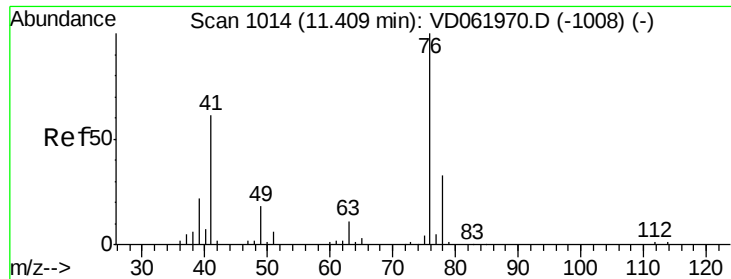
#56
 Ethyl methacrylate
 Concen: 11.891 ug/l
 RT: 11.02 min Scan# 975
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion:	69	Resp:	44940
Ion	Ratio	Lower	Upper
69	100		
41	70.1	56.3	84.5
39	35.8	29.4	44.2



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

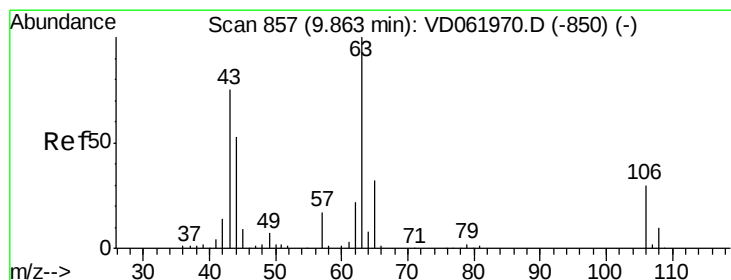
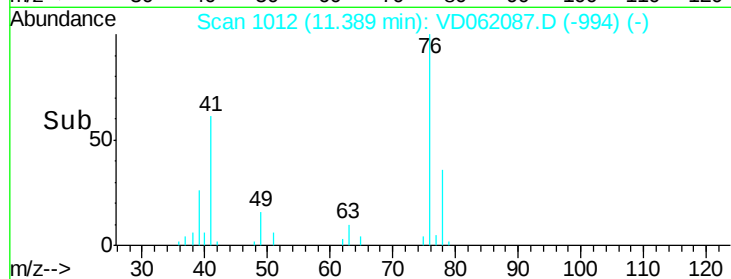
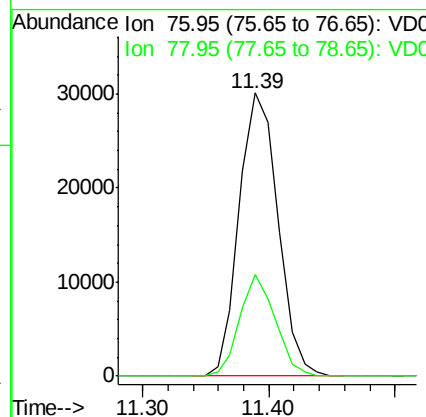
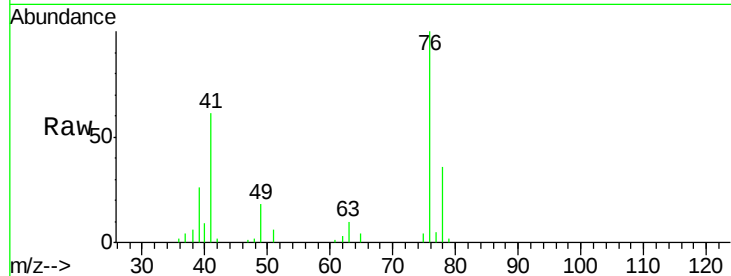




#57
 1,3-Dichloropropane
 Concen: 12.172 ug/l
 RT: 11.39 min Scan# 1012
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

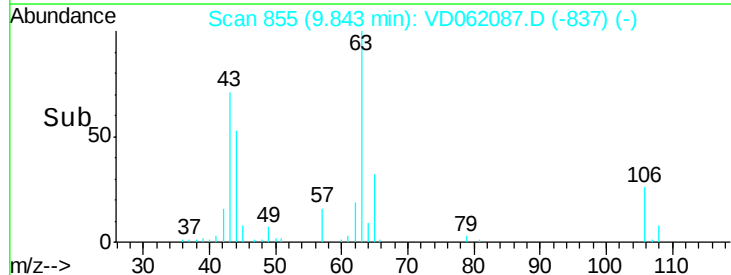
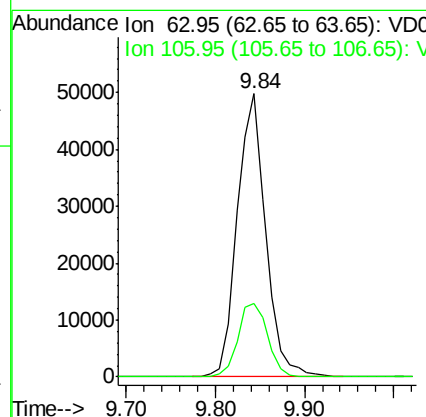
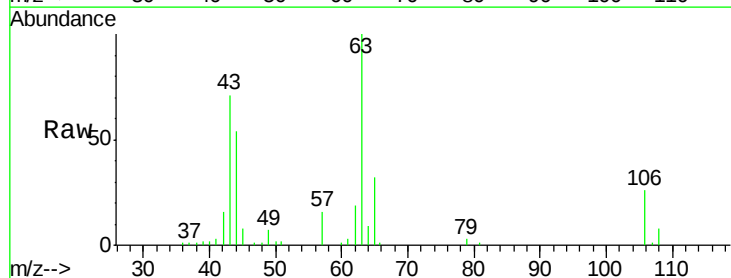
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

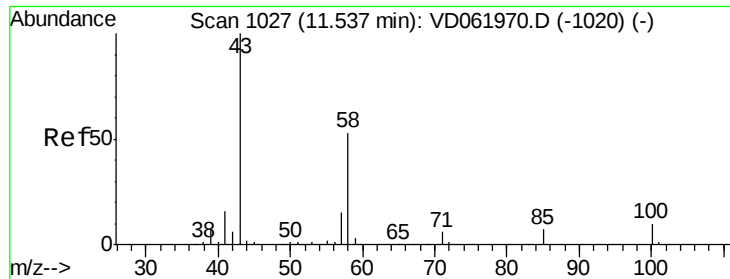
Tot Ion: 76 Resp: 64153
 Ion Ratio Lower Upper
 76 100
 78 35.8 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 62.949 ug/l
 RT: 9.84 min Scan# 855
 Delta R.T. -0.02 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 63 Resp: 110608
 Ion Ratio Lower Upper
 63 100
 106 25.9 22.6 34.0

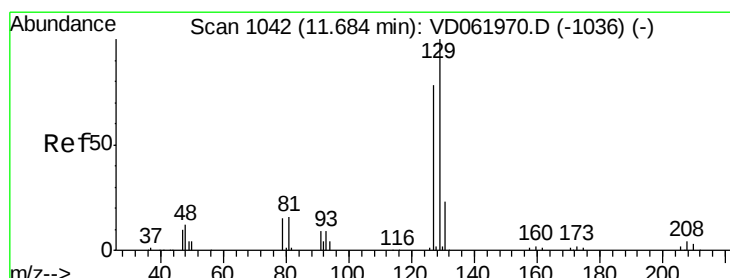
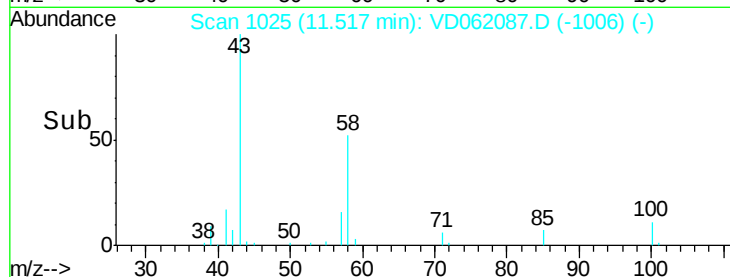
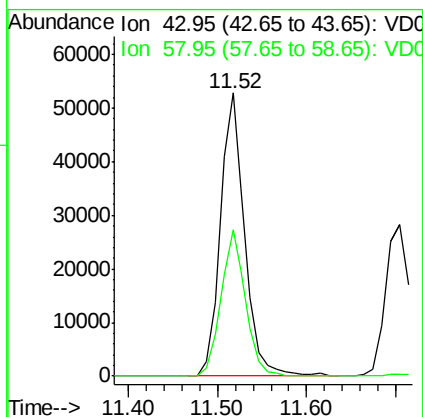
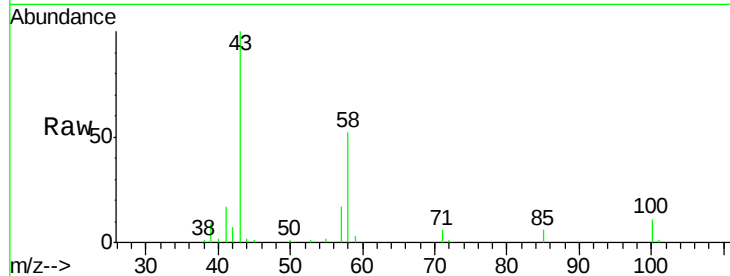




#59
2-Hexanone
Concen: 54.676 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

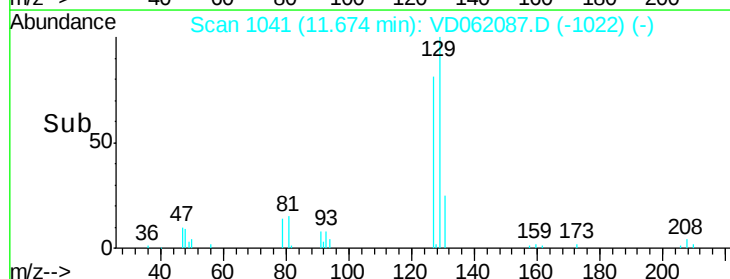
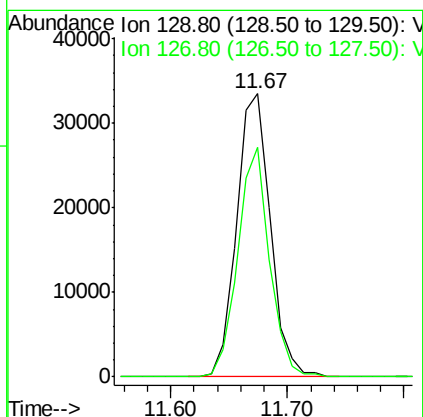
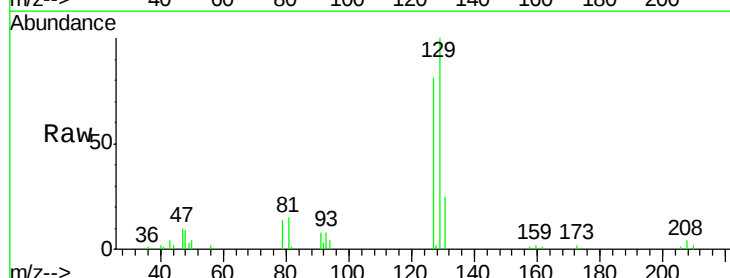
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

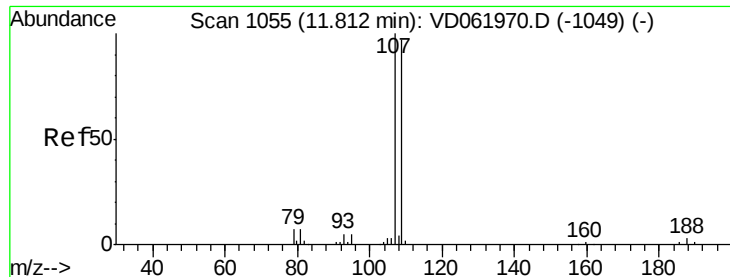
Tot Ion: 43 Resp: 100564
Ion Ratio Lower Upper
43 100
58 51.7 25.4 76.4



#60
Dibromochloromethane
Concen: 11.895 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 129 Resp: 67161
Ion Ratio Lower Upper
129 100
127 81.3 38.0 113.9

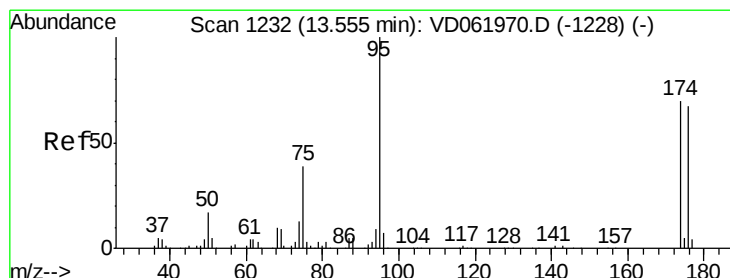
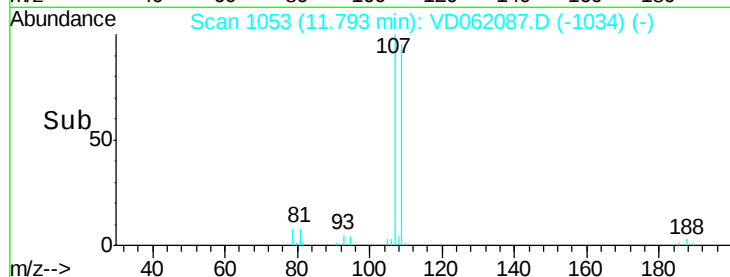
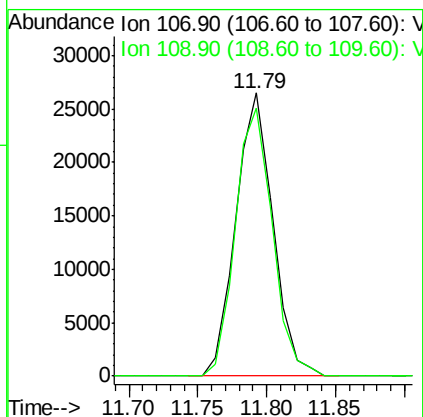
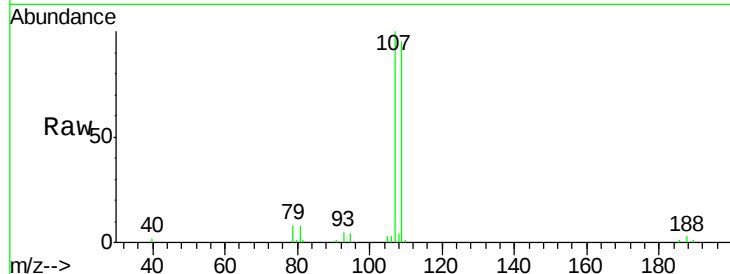




#61
 1,2-Dibromoethane
 Concen: 12.291 ug/l
 RT: 11.79 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

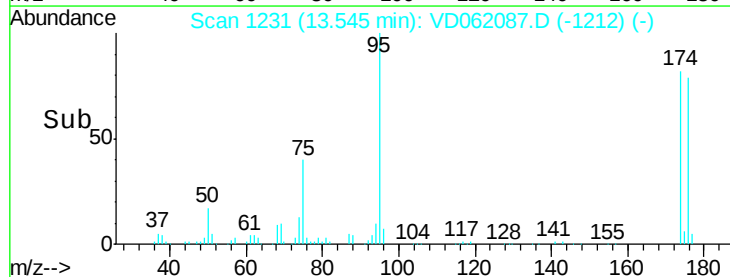
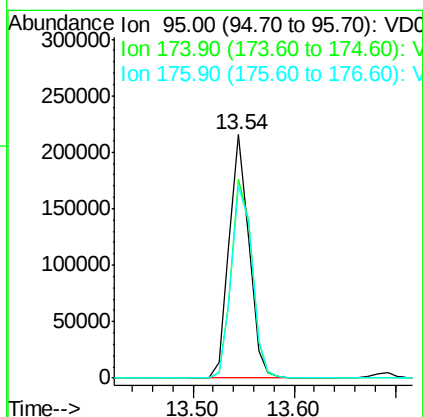
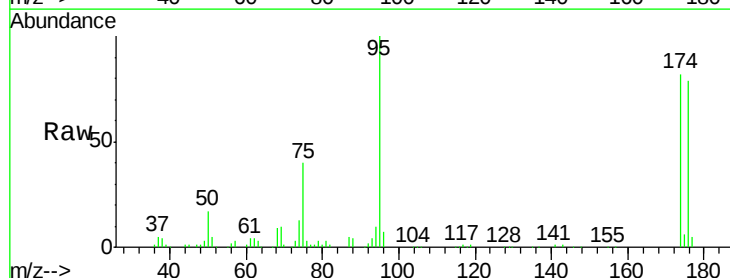
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

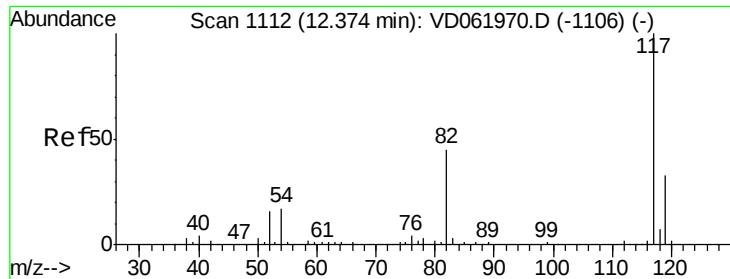
Tot Ion: 107 Resp: 49752
 Ion Ratio Lower Upper
 107 100
 109 94.7 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 54.132 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 95 Resp: 295301
 Ion Ratio Lower Upper
 95 100
 174 81.7 0.0 181.8
 176 79.2 0.0 174.4

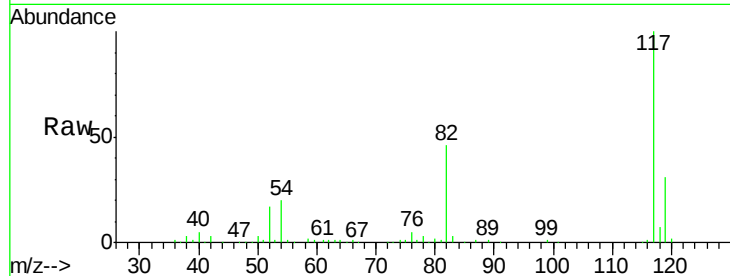




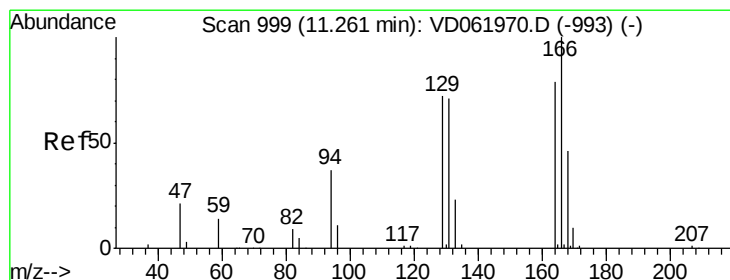
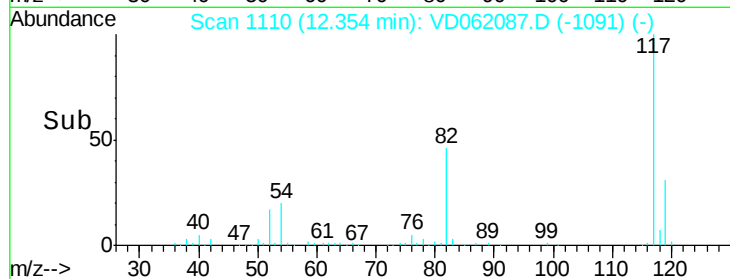
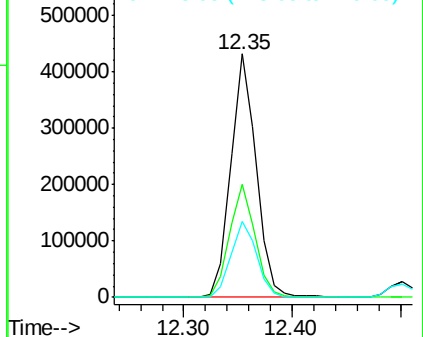
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:117 Resp: 704348
Ion Ratio Lower Upper
117 100
82 46.2 36.2 54.2
119 31.3 26.2 39.4

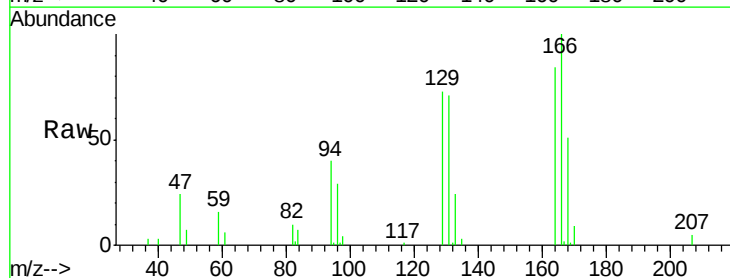


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

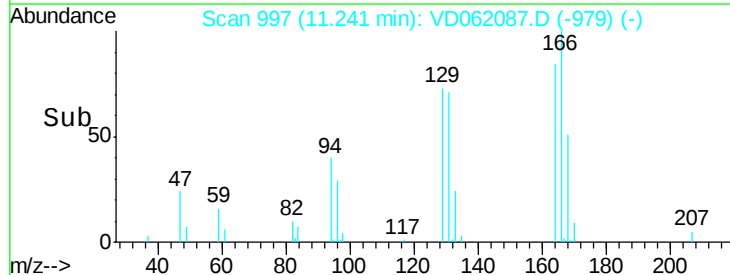
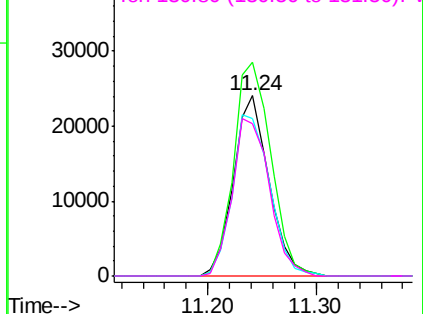


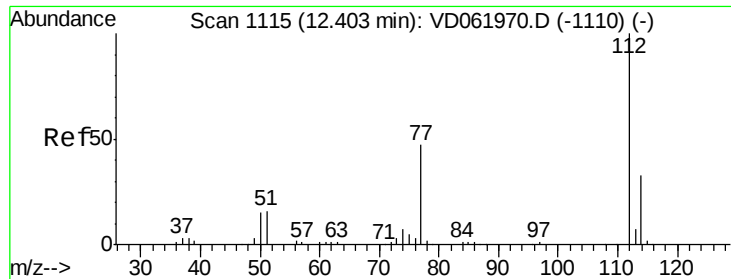
#64
Tetrachloroethene
Concen: 10.889 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion:164 Resp: 54712
Ion Ratio Lower Upper
164 100
166 118.5 101.5 152.3
129 87.0 74.6 112.0
131 84.4 72.6 108.8



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

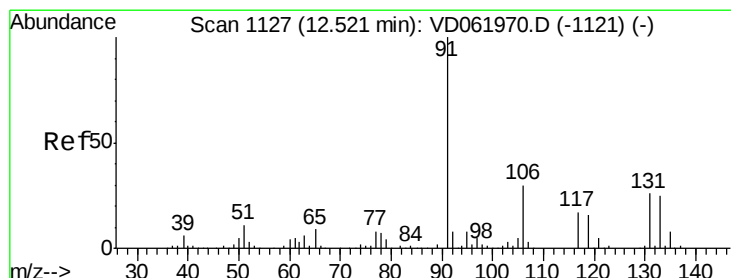
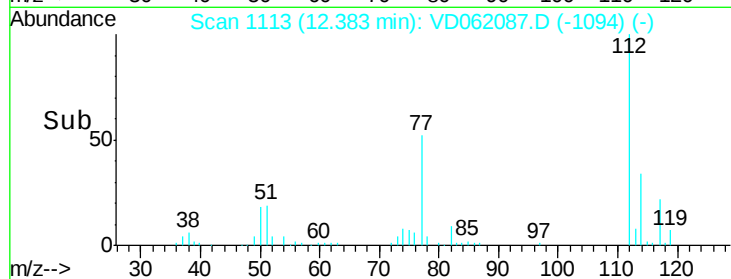
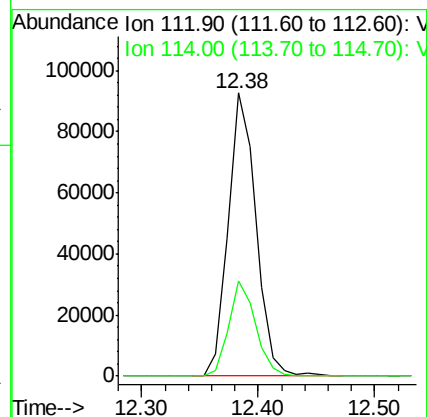
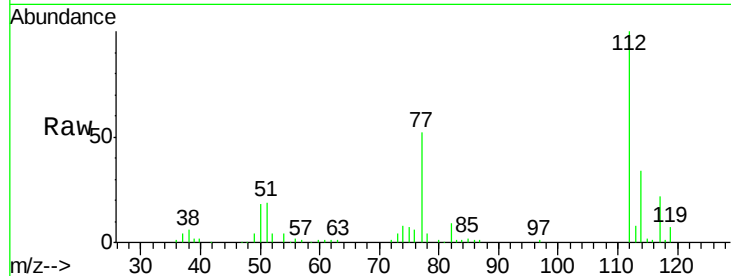




#65
Chlorobenzene
Concen: 11.514 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

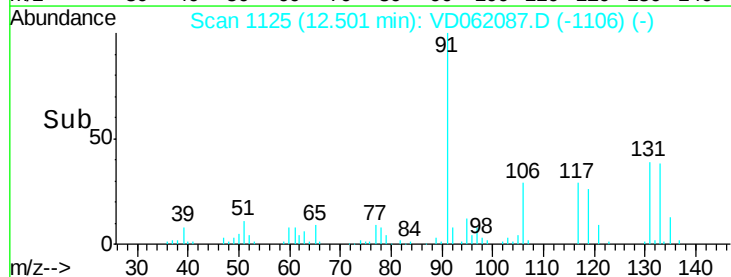
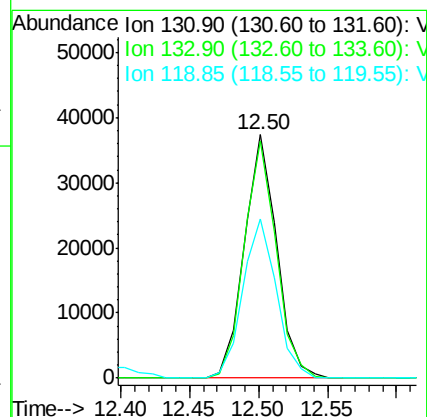
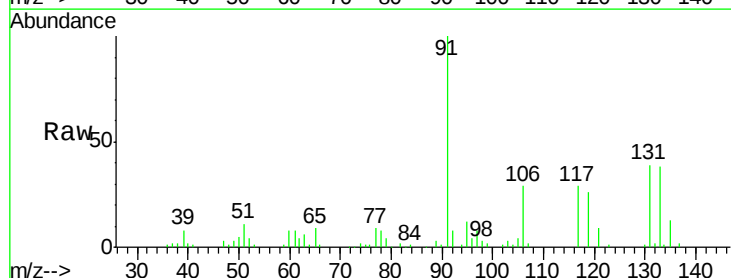
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

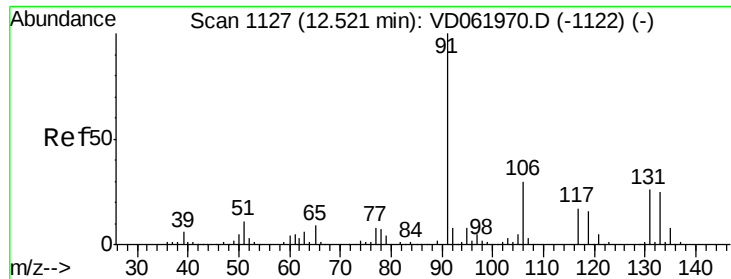
Tot Ion:112 Resp: 153243
Ion Ratio Lower Upper
112 100
114 33.9 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 10.838 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion:131 Resp: 61188
Ion Ratio Lower Upper
131 100
133 97.6 48.6 145.8
119 65.4 34.7 104.1

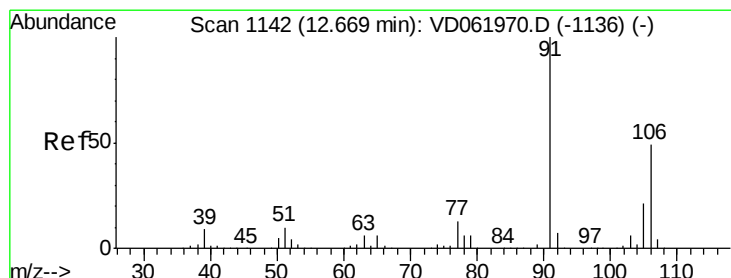
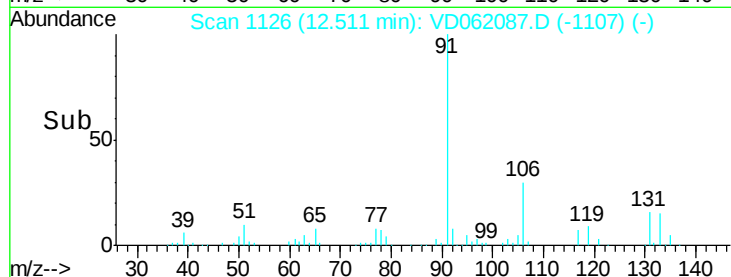
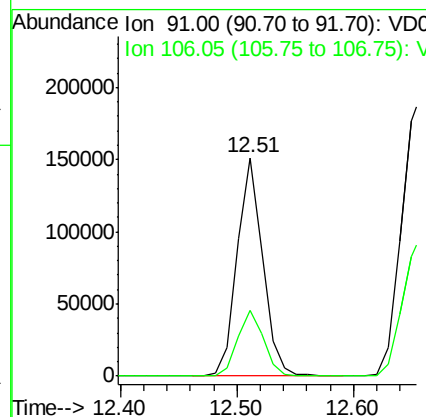
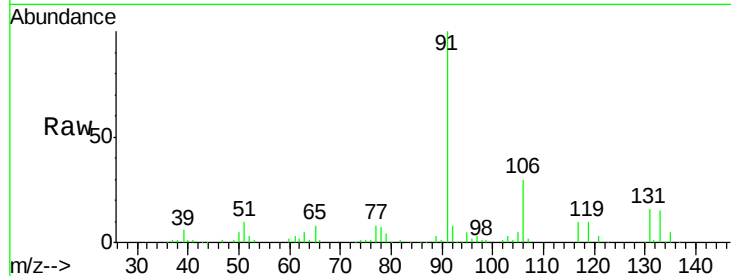




#67
Ethyl Benzene
Concen: 10.579 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

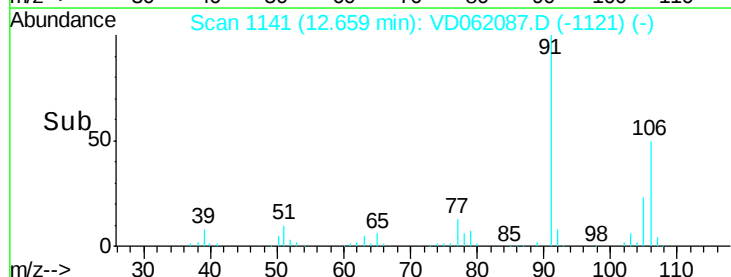
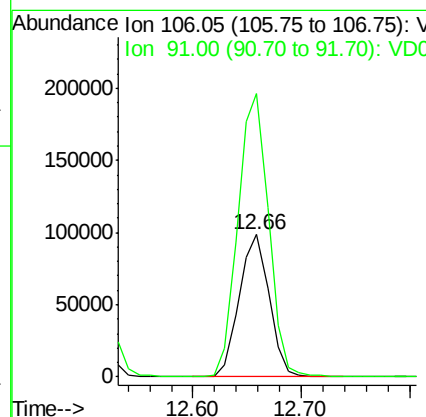
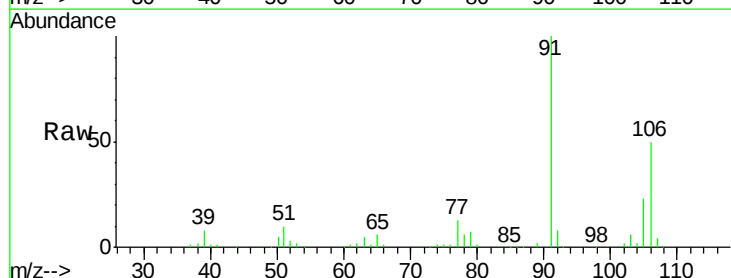
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

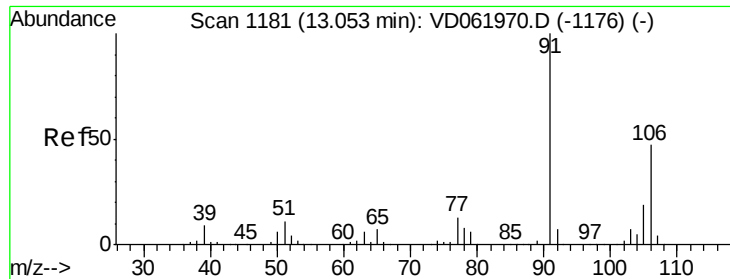
Tot Ion: 91 Resp: 229815
Ion Ratio Lower Upper
91 100
106 30.0 24.7 37.1



#68
m/p-Xylenes
Concen: 24.155 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 106 Resp: 189657
Ion Ratio Lower Upper
106 100
91 199.0 164.0 246.0

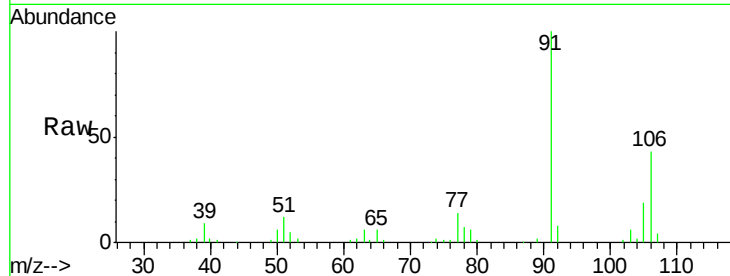




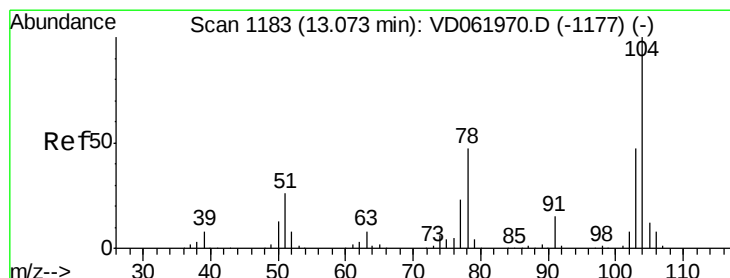
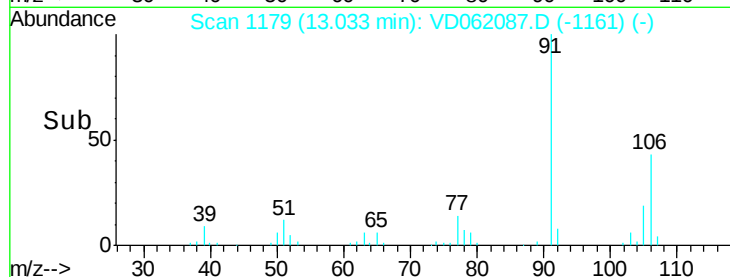
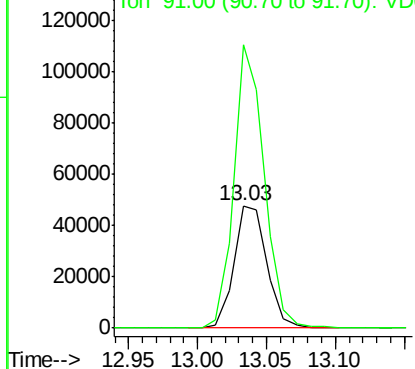
#69
o-Xylene
Concen: 10.999 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.02 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:106 Resp: 79013
Ion Ratio Lower Upper
106 100
91 230.8 106.7 319.9

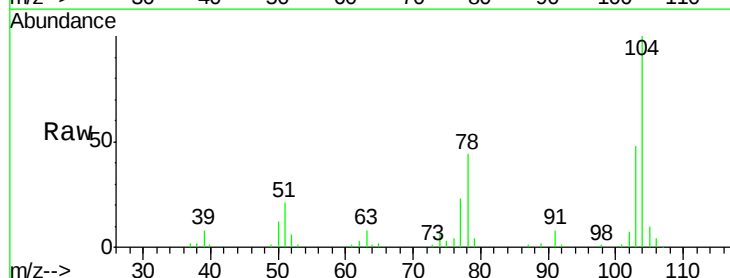


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

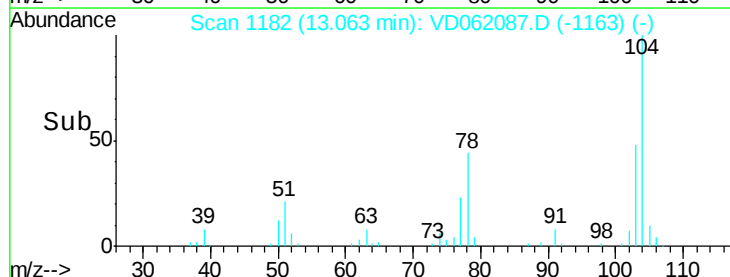
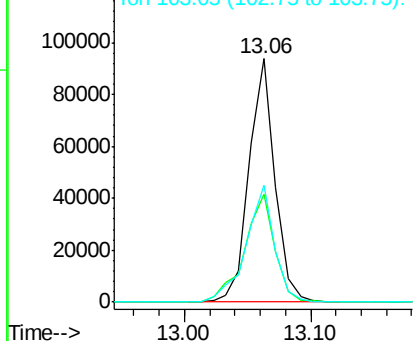


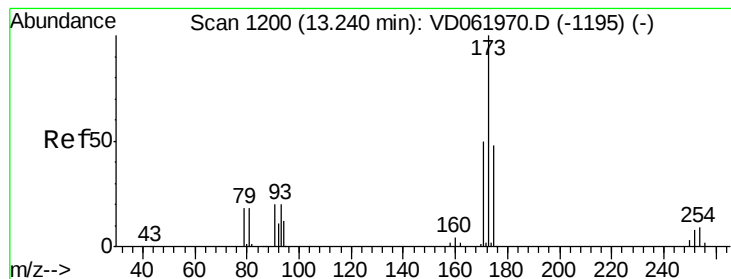
#70
Styrene
Concen: 10.799 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion:104 Resp: 133956
Ion Ratio Lower Upper
104 100
78 44.2 35.4 53.2
103 48.2 37.5 56.3



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





#71

Bromoform

Concen: 11.211 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

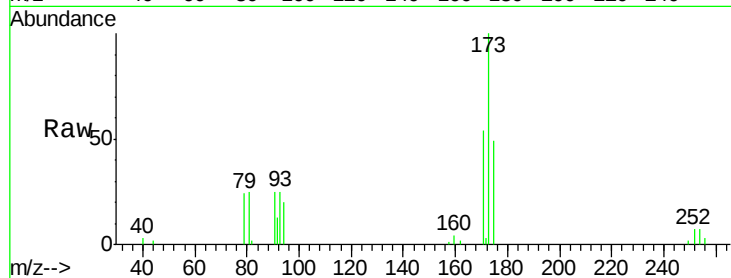
Tot Ion:173 Resp: 36086

Ion Ratio Lower Upper

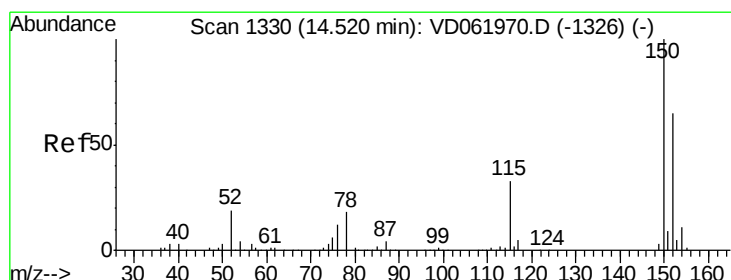
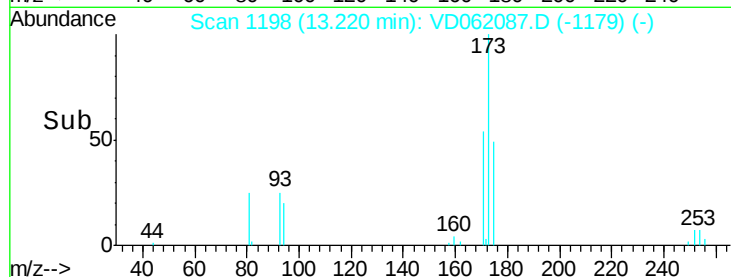
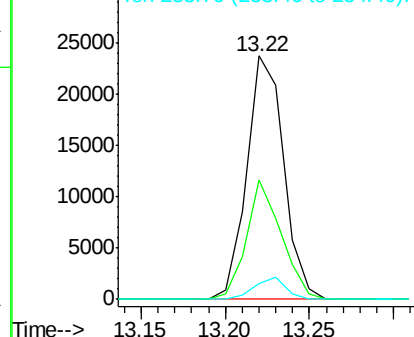
173 100

175 49.2 24.4 73.4

254 6.7 5.4 8.2



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. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

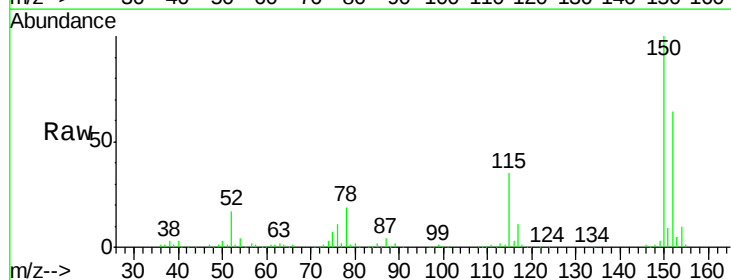
Tgt Ion:152 Resp: 373292

Ion Ratio Lower Upper

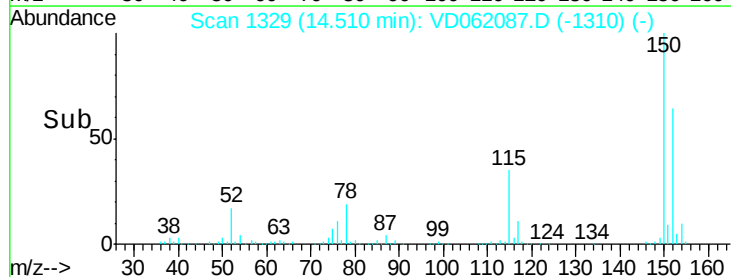
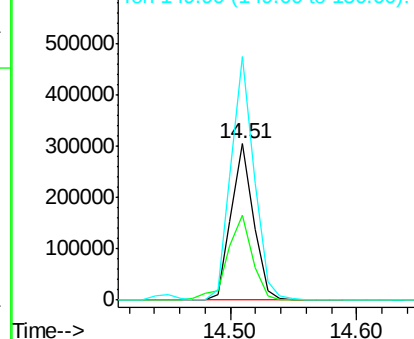
152 100

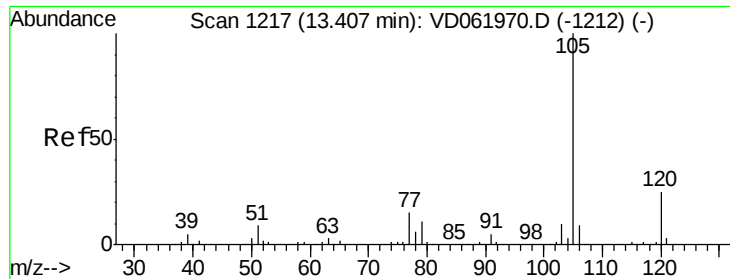
115 54.0 30.9 92.7

150 155.6 0.0 314.8



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: 10.252 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

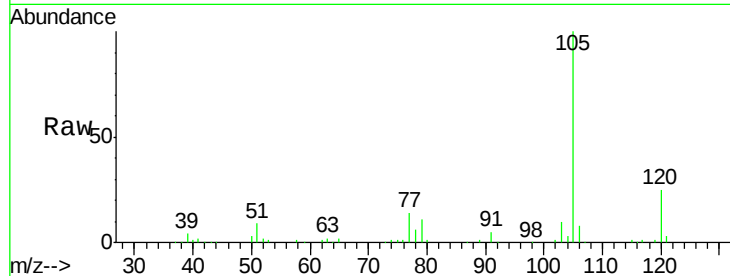
LOQ-SOIL-02-QT2-2019

Tot Ion:105 Resp: 255297

Ion Ratio Lower Upper

105 100

120 25.2 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

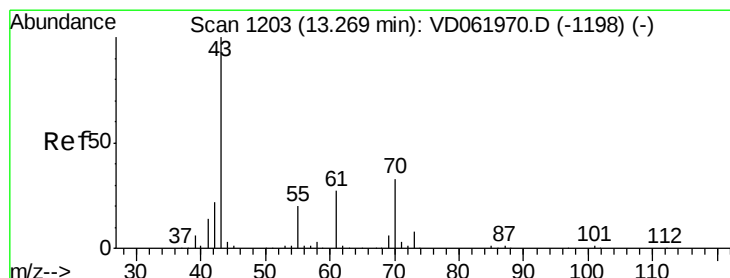
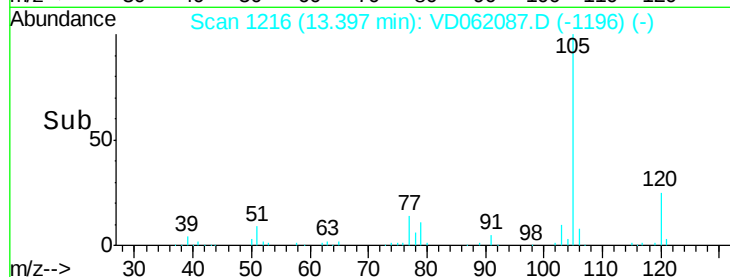
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#74

N-ethyl acetate

Concen: 8.755 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Tgt Ion: 43 Resp: 56148

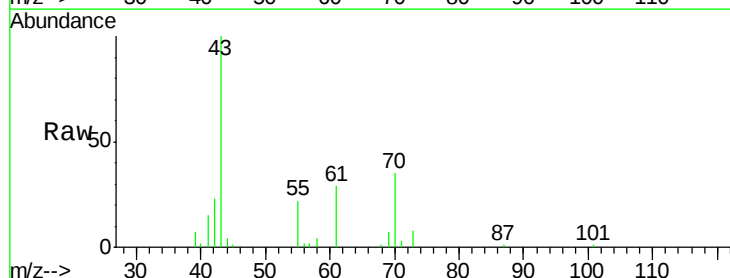
Ion Ratio Lower Upper

43 100

70 35.3 24.2 36.4

55 22.5 16.0 24.0

61 29.1 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

60000

50000

40000

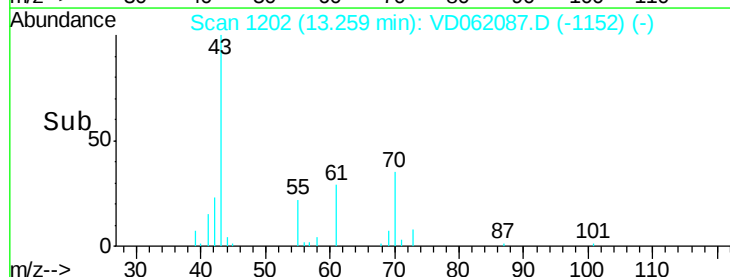
30000

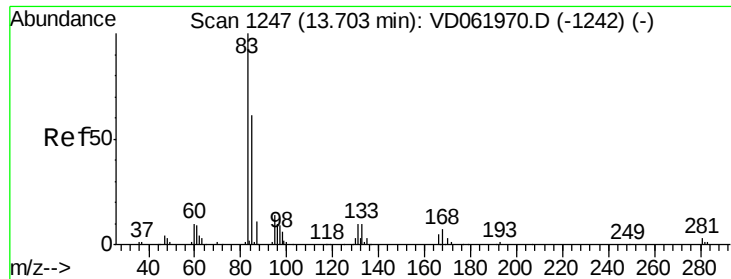
20000

10000

0

Time--> 13.20 13.25 13.30 13.35





#75

1,1,2,2-Tetrachloroethane

Concen: 10.158 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

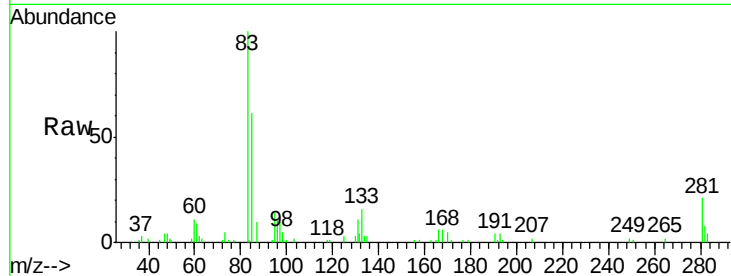
Tot Ion: 83 Resp: 49569

Ion Ratio Lower Upper

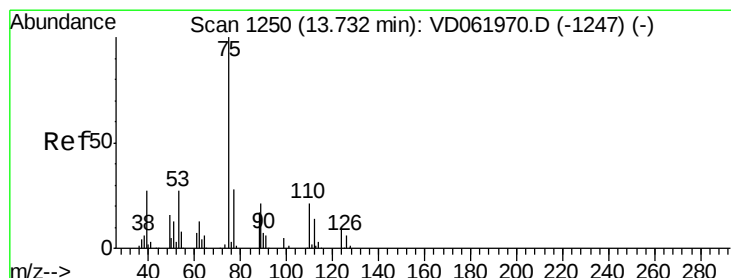
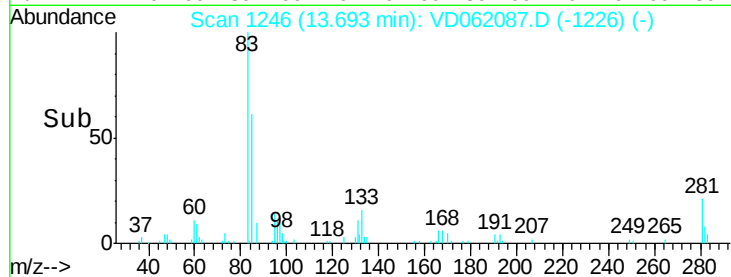
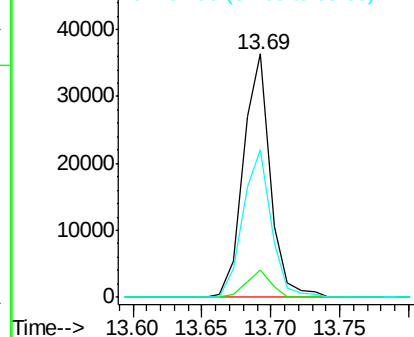
83 100

131 11.0 5.0 14.9

85 60.7 32.6 97.7



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: 10.035 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD062087.D

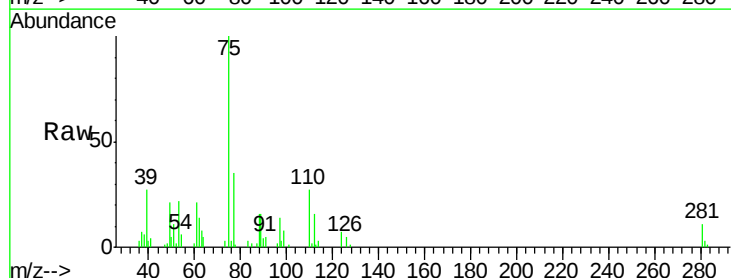
Acq: 30 Apr 2019 15:07

Tgt Ion: 75 Resp: 47567

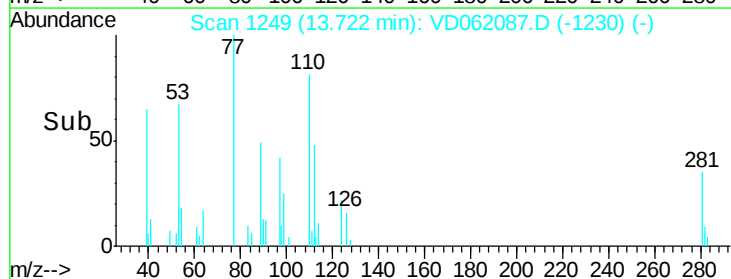
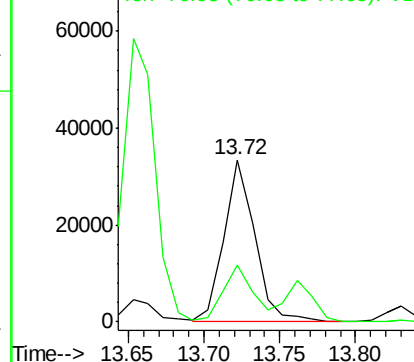
Ion Ratio Lower Upper

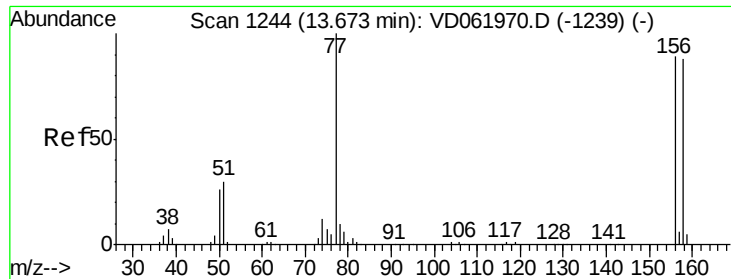
75 100

77 34.8 16.4 49.4



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





#77

Bromobenzene

Concen: 10.102 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

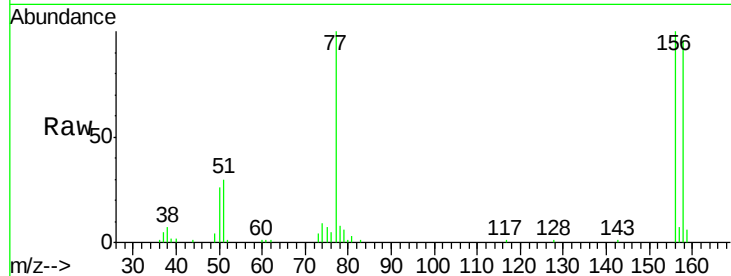
Tot Ion:156 Resp: 72160

Ion Ratio Lower Upper

156 100

77 99.5 53.1 159.4

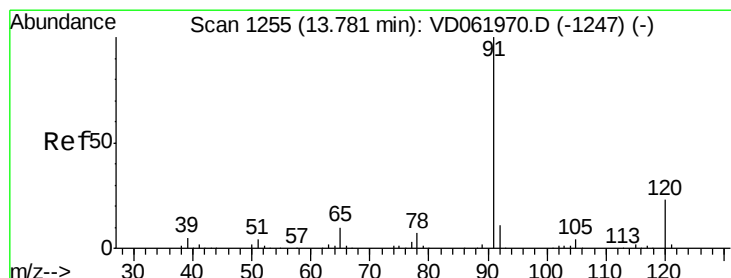
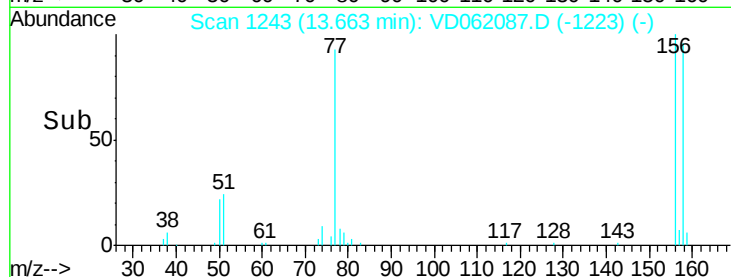
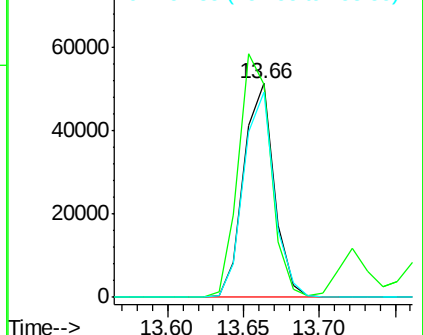
158 96.1 49.4 148.0



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: 10.278 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD062087.D

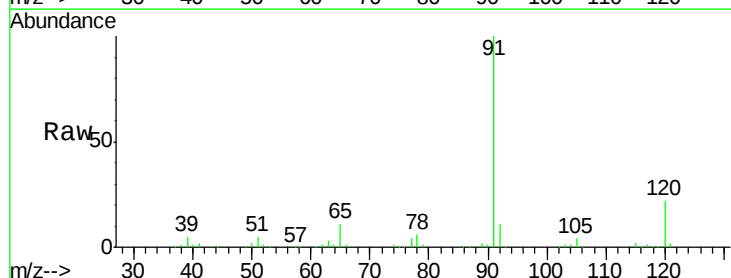
Acq: 30 Apr 2019 15:07

Tgt Ion: 91 Resp: 292987

Ion Ratio Lower Upper

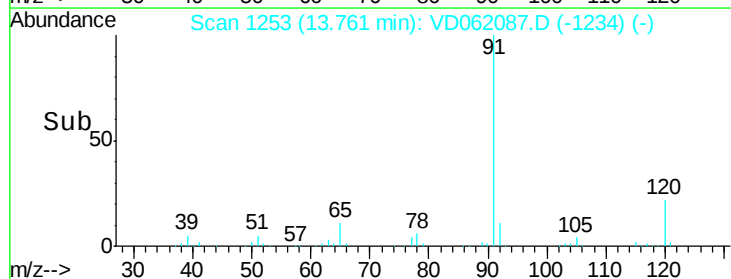
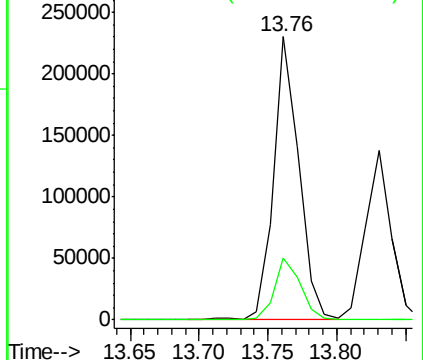
91 100

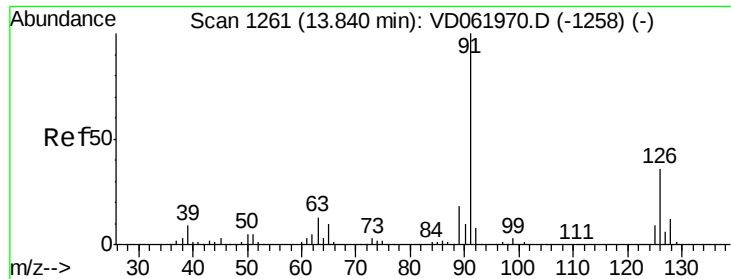
120 21.8 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

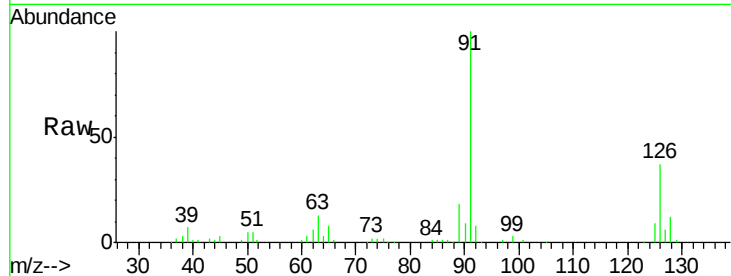




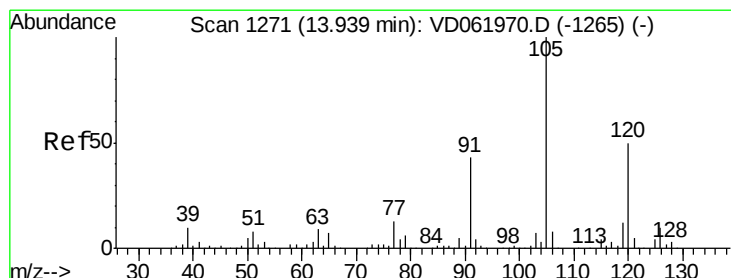
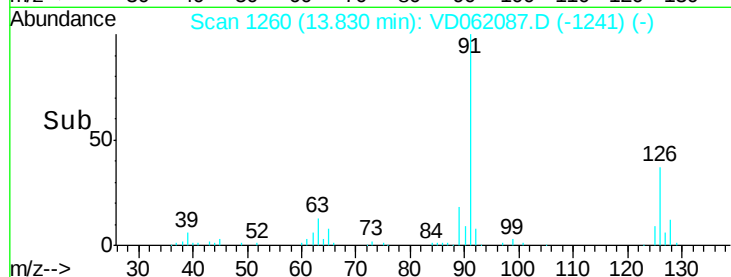
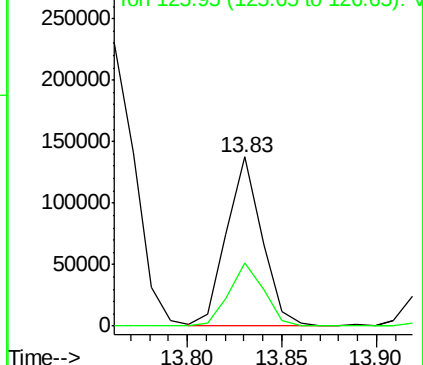
#79
 2-Chlorotoluene
 Concen: 10.364 ug/l
 RT: 13.83 min Scan# 1260
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion: 91 Resp: 178951
 Ion Ratio Lower Upper
 91 100
 126 37.2 18.6 55.8

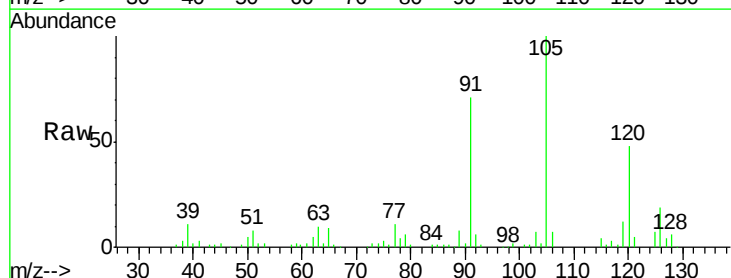


Abundance Ion 91.00 (90.70 to 91.70): VD061970.D (-1258) (-)
 Ion 125.95 (125.65 to 126.65): VD061970.D (-1258) (-)

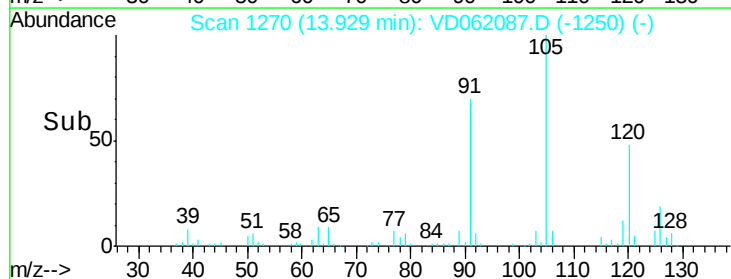
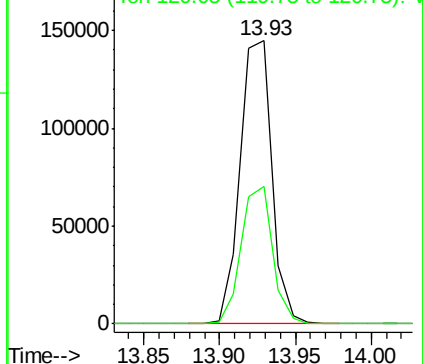


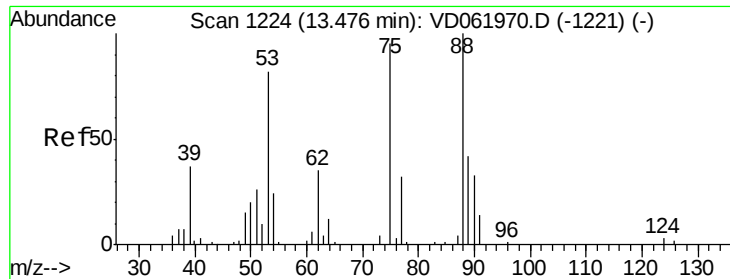
#80
 1,3,5-Trimethylbenzene
 Concen: 10.632 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion:105 Resp: 211111
 Ion Ratio Lower Upper
 105 100
 120 48.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD061970.D (-1265) (-)
 Ion 120.05 (119.75 to 120.75): VD061970.D (-1265) (-)

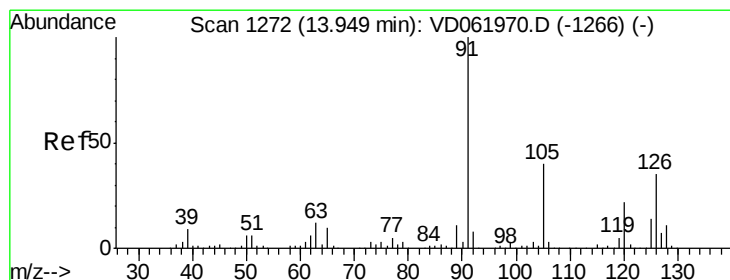
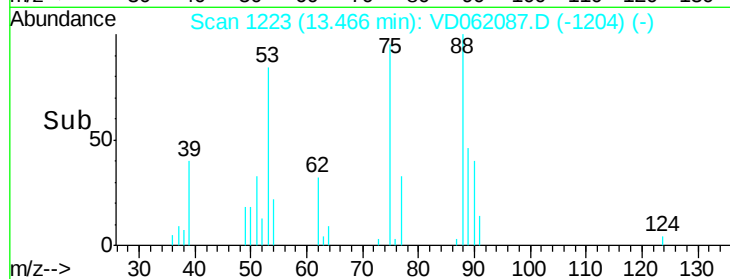
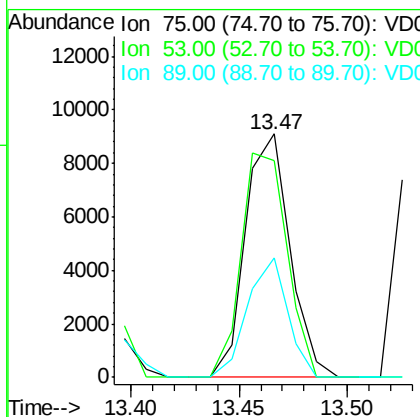
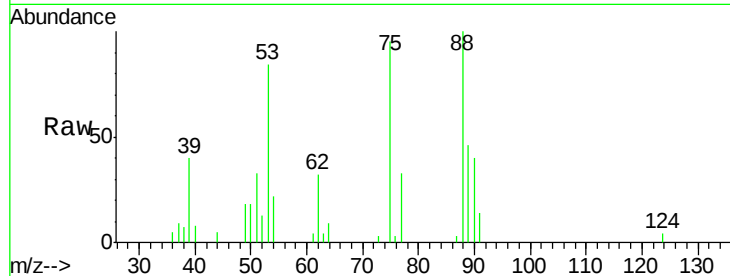




#81
trans-1,4-Dichloro-2-butene
Concen: 9.015 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

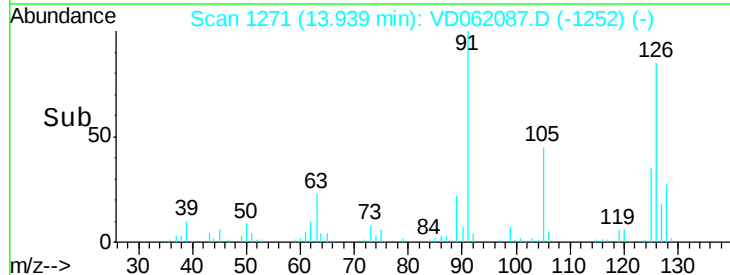
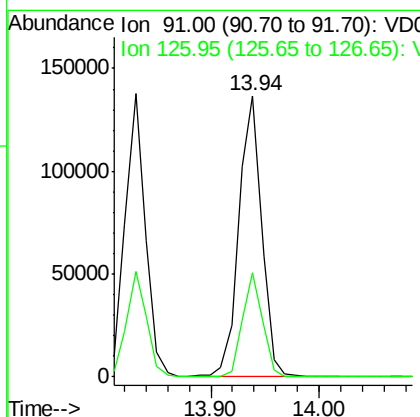
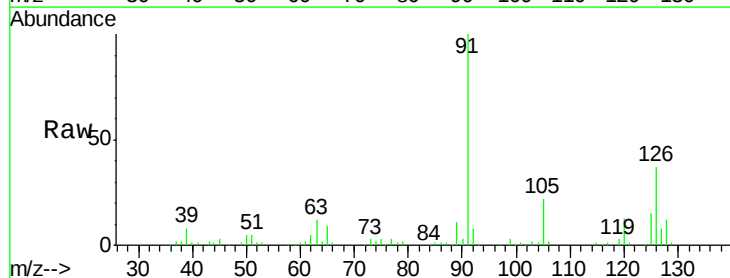
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

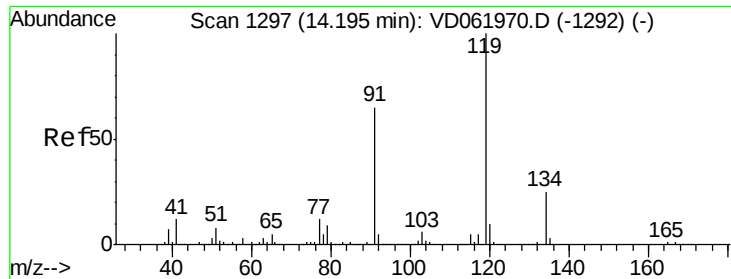
Tot Ion: 75 Resp: 12950
Ion Ratio Lower Upper
75 100
53 89.0 65.8 98.8
89 48.9 35.0 52.6



#82
4-Chlorotoluene
Concen: 10.583 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion: 91 Resp: 201241
Ion Ratio Lower Upper
91 100
126 36.9 19.1 57.5

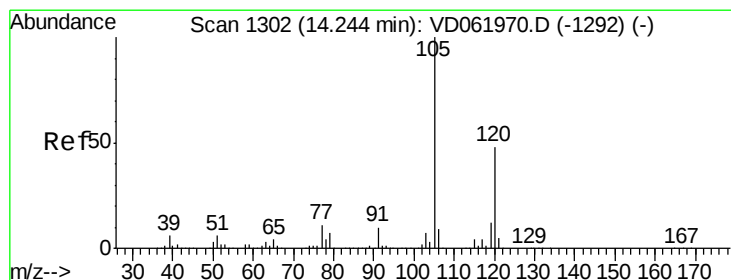
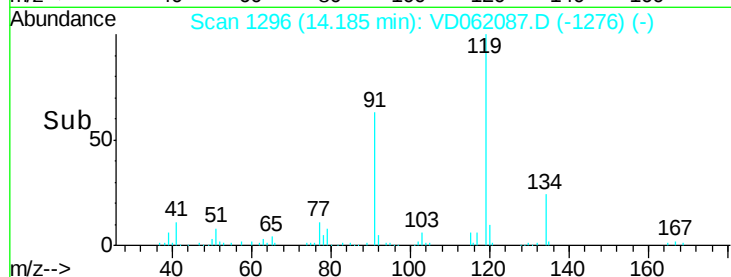
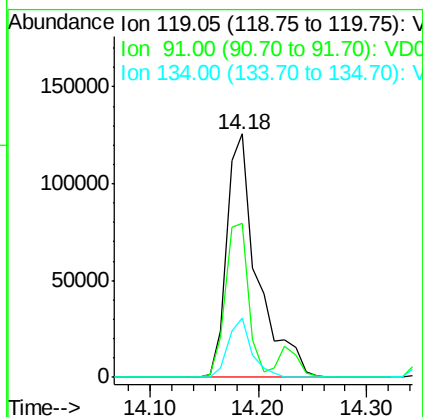
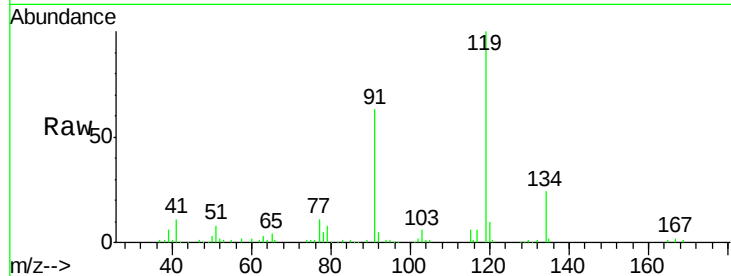




#83
tert-Butylbenzene
Concen: 10.798 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. -0.00 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

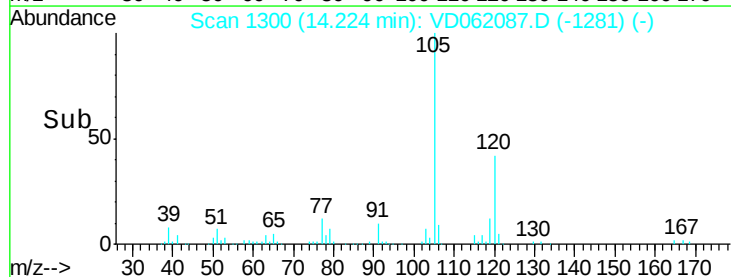
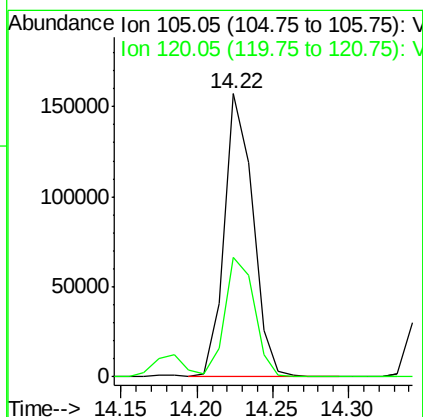
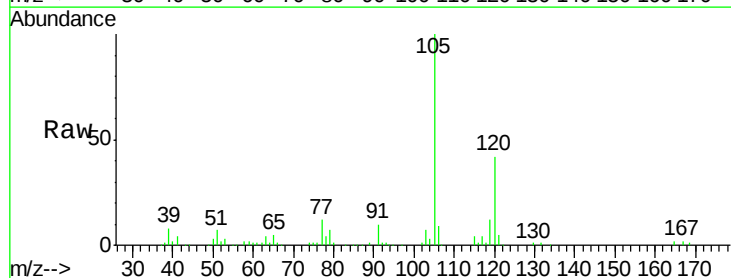
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

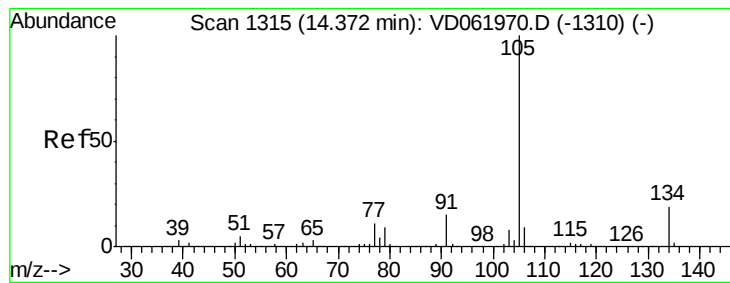
Tot Ion:119 Resp: 248375
Ion Ratio Lower Upper
119 100
91 63.4 34.2 102.6
134 24.1 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 10.867 ug/l
RT: 14.22 min Scan# 1300
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion:105 Resp: 206026
Ion Ratio Lower Upper
105 100
120 42.1 23.1 69.2





#85

sec-Butylbenzene

Concen: 10.222 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

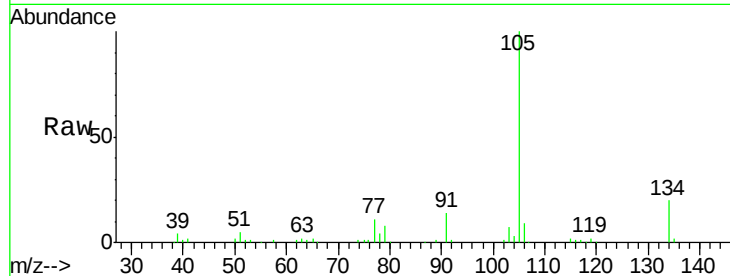
LOQ-SOIL-02-QT2-2019

Tot Ion:105 Resp: 254051

Ion Ratio Lower Upper

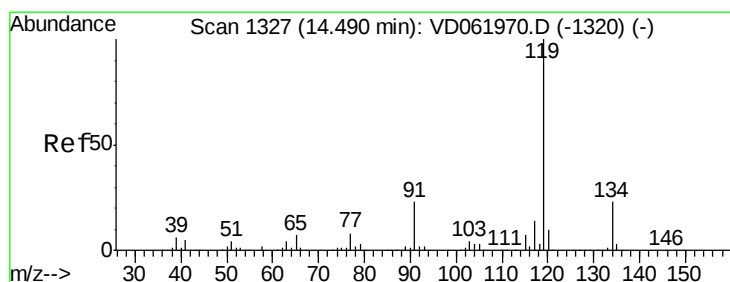
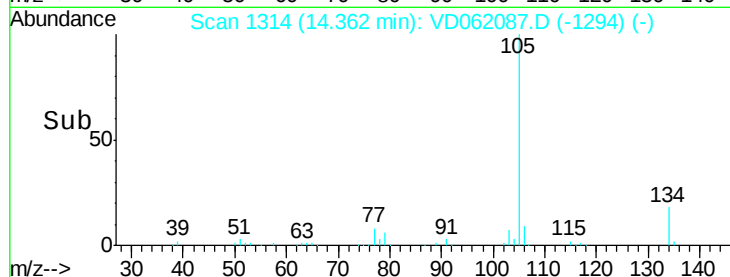
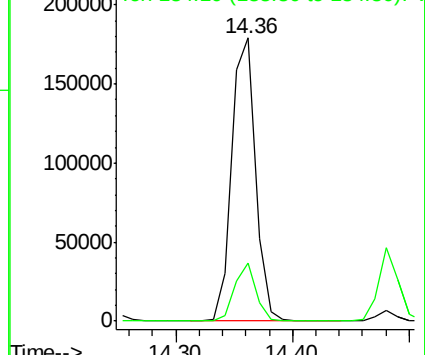
105 100

134 20.4 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 10.173 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

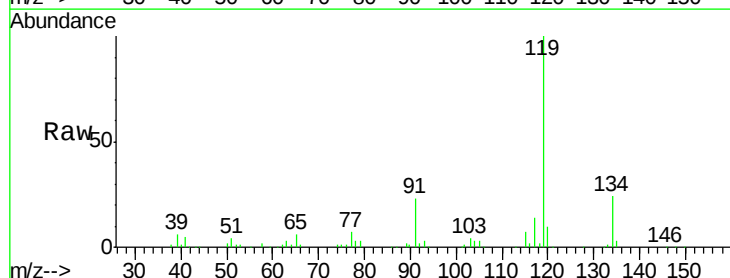
Tgt Ion:119 Resp: 226284

Ion Ratio Lower Upper

119 100

134 24.2 12.8 38.3

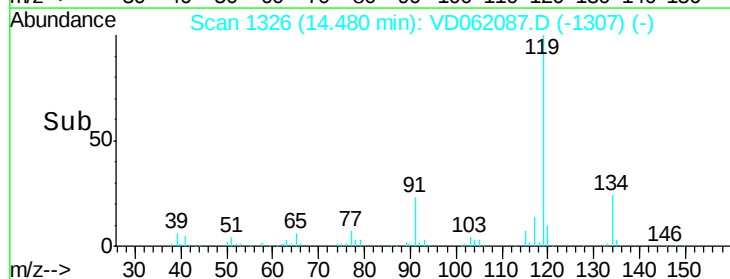
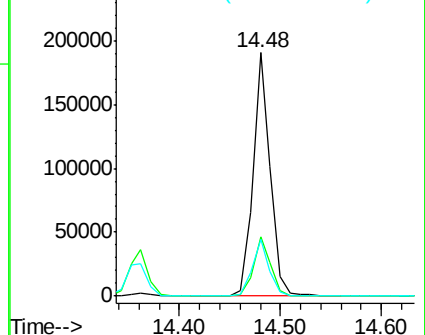
91 23.4 10.7 32.1

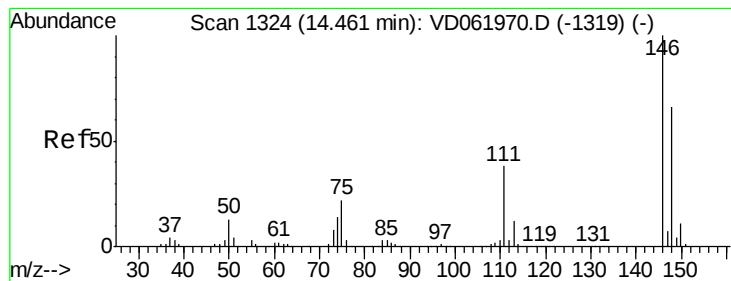


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 9.976 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

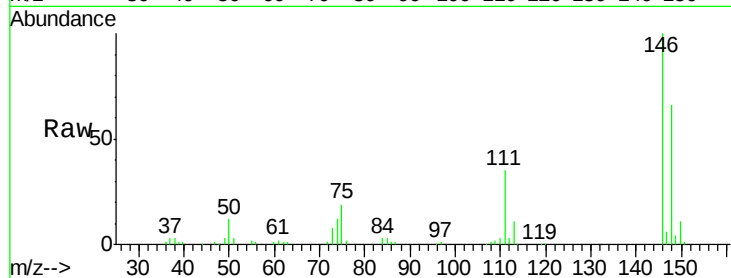
Tot Ion:146 Resp: 124788

Ion Ratio Lower Upper

146 100

111 34.7 20.0 60.0

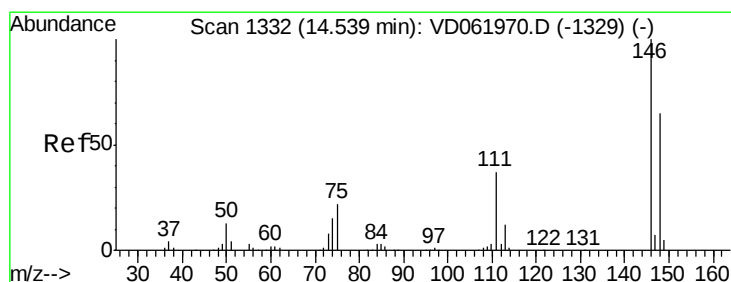
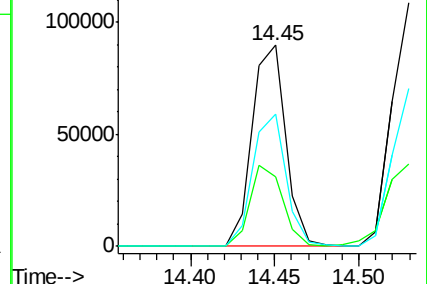
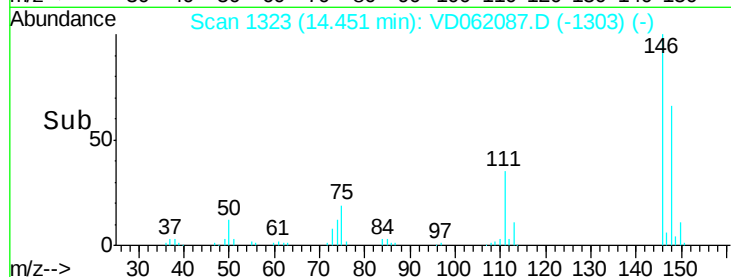
148 65.9 31.8 95.4



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



#88

1,4-Dichlorobenzene

Concen: 11.500 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

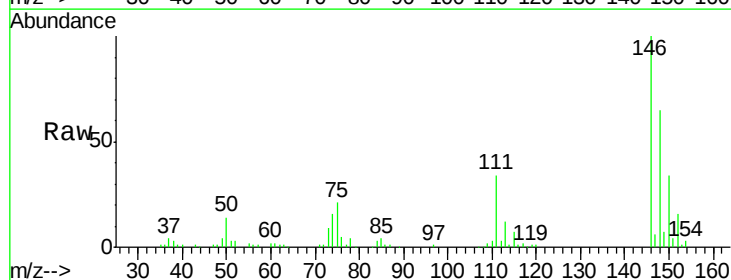
Tgt Ion:146 Resp: 134534

Ion Ratio Lower Upper

146 100

111 34.0 20.2 60.5

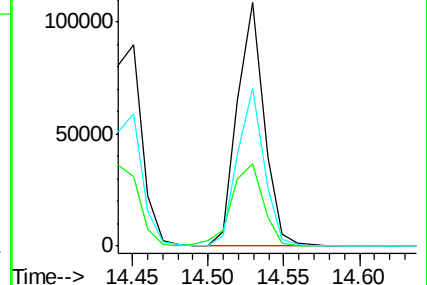
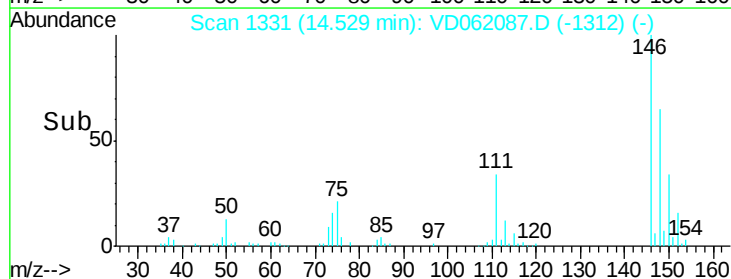
148 64.6 32.0 96.2

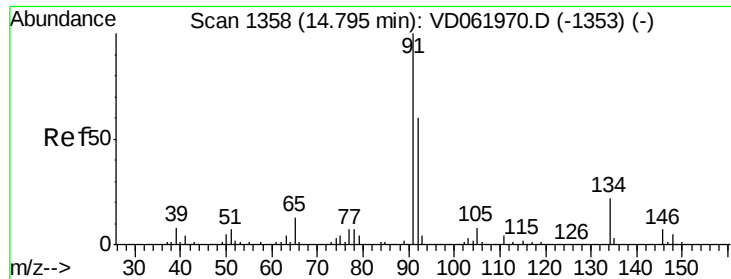


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 10.108 ug/l

RT: 14.79 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VD062087.D

Acq: 30 Apr 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT2-2019

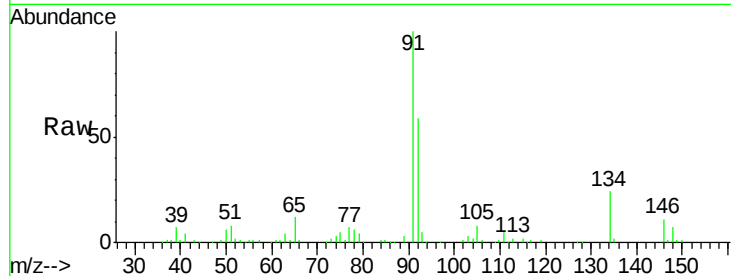
Tot Ion: 91 Resp: 201847

Ion Ratio Lower Upper

91 100

92 59.3 30.3 91.0

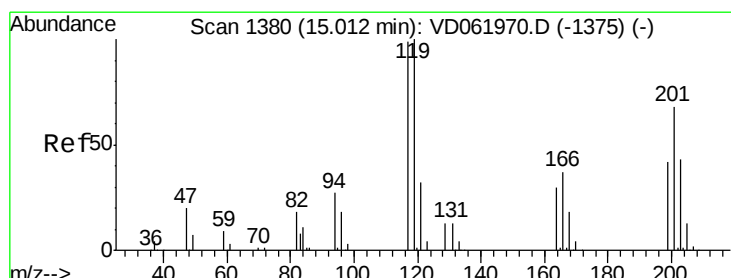
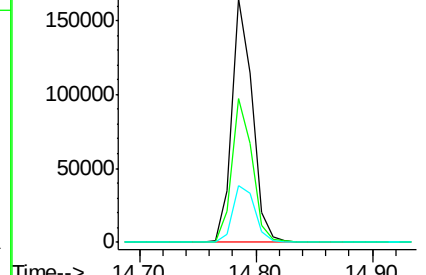
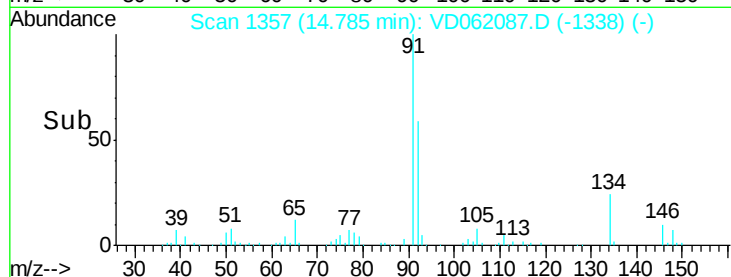
134 23.5 14.5 43.6



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: 9.675 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VD062087.D

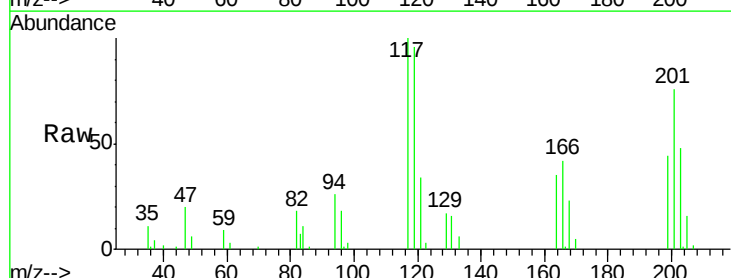
Acq: 30 Apr 2019 15:07

Tgt Ion: 117 Resp: 58188

Ion Ratio Lower Upper

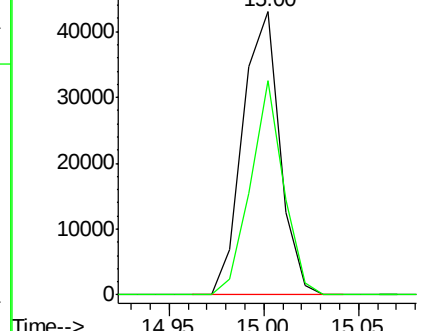
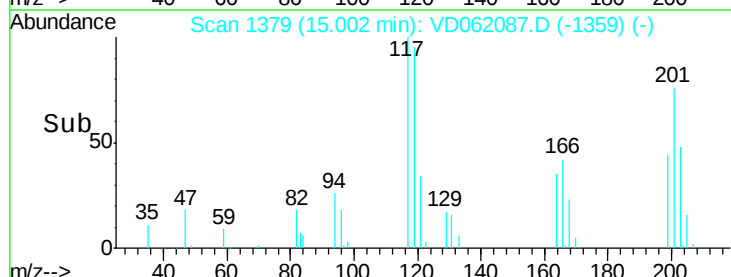
117 100

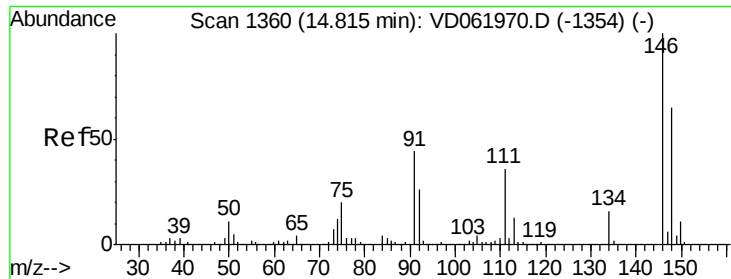
201 75.8 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

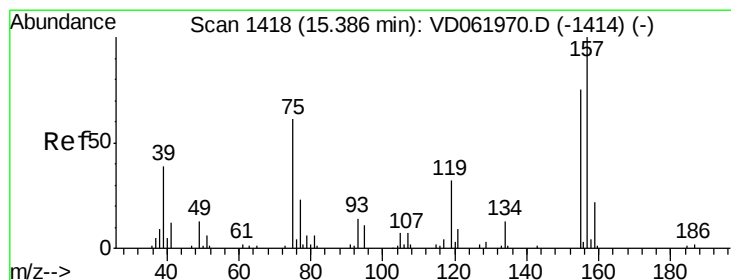
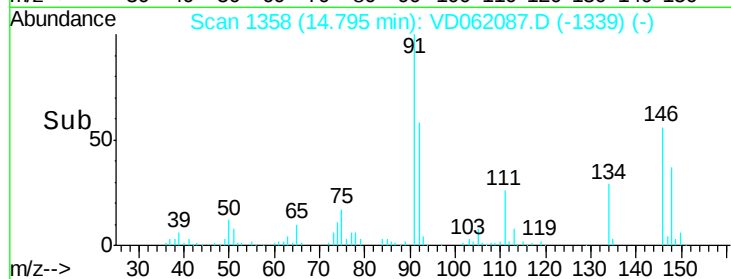
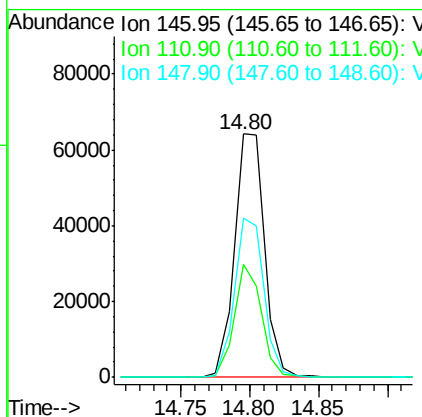
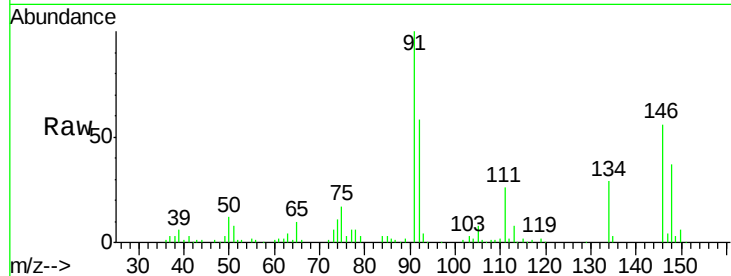




#91
 1,2-Dichlorobenzene
 Concen: 9.458 ug/l
 RT: 14.80 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

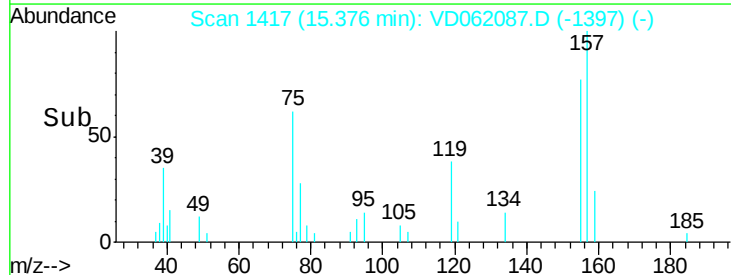
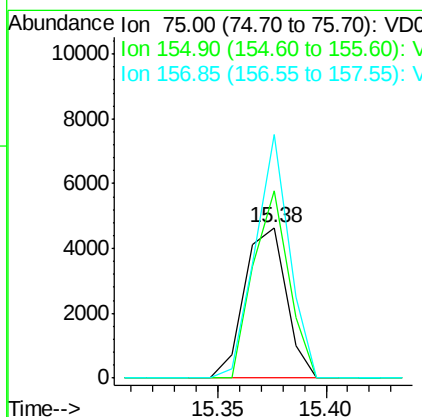
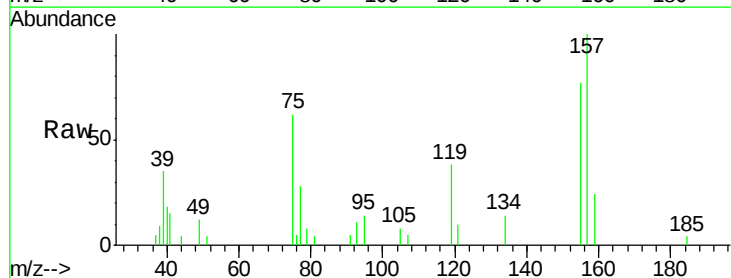
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

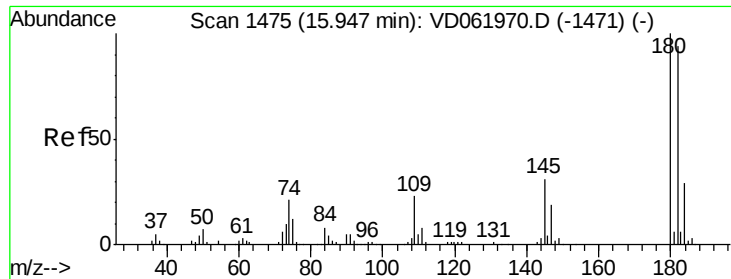
Tot Ion:146 Resp: 97595
 Ion Ratio Lower Upper
 146 100
 111 46.6 20.0 59.9
 148 65.5 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.562 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion: 75 Resp: 6214
 Ion Ratio Lower Upper
 75 100
 155 124.3 55.3 165.8
 157 161.6 67.8 203.2

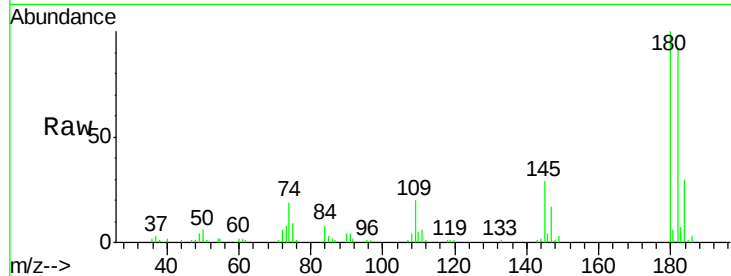




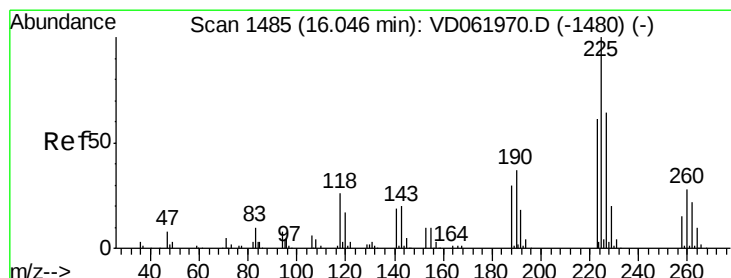
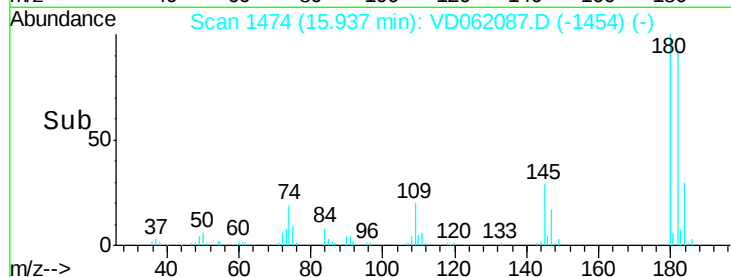
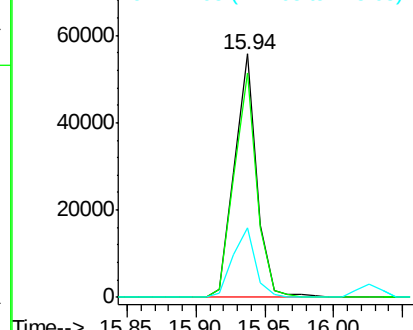
#93
 1,2,4-Trichlorobenzene
 Concen: 11.241 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion:180 Resp: 62584
 Ion Ratio Lower Upper
 180 100
 182 92.4 49.3 147.8
 145 28.5 16.2 48.6

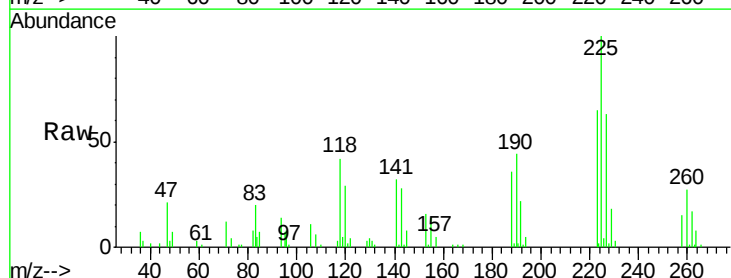


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

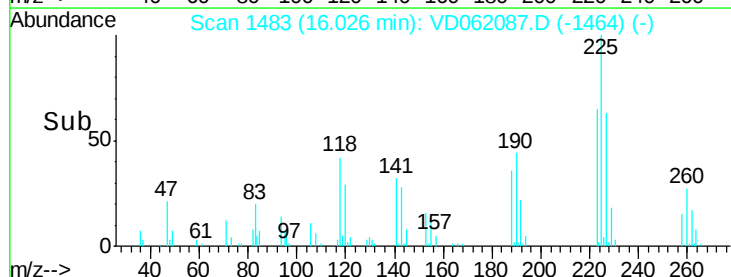
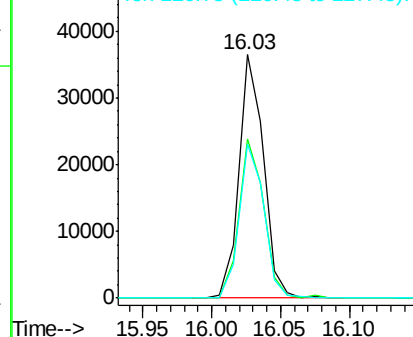


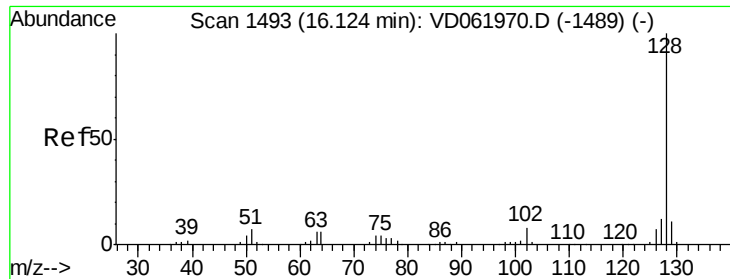
#94
 Hexachlorobutadiene
 Concen: 10.975 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. -0.01 min
 Lab File: VD062087.D
 Acq: 30 Apr 2019 15:07

Tgt Ion:225 Resp: 45220
 Ion Ratio Lower Upper
 225 100
 223 65.4 30.6 92.0
 227 63.0 32.0 96.2



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

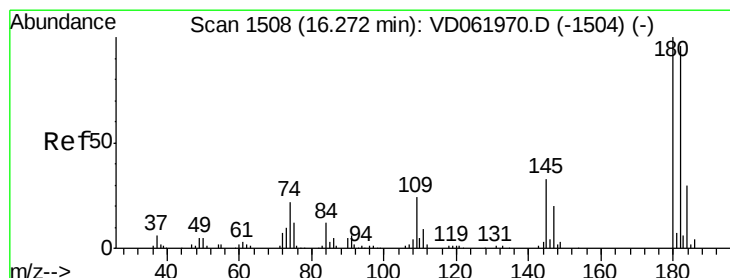
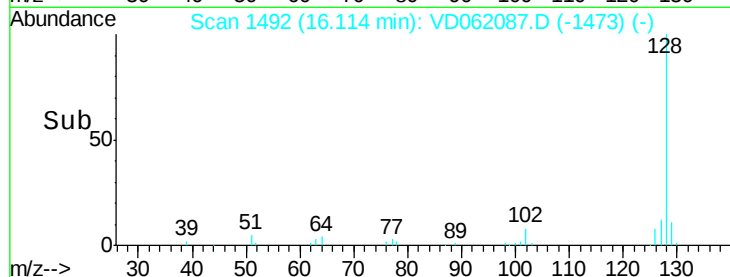
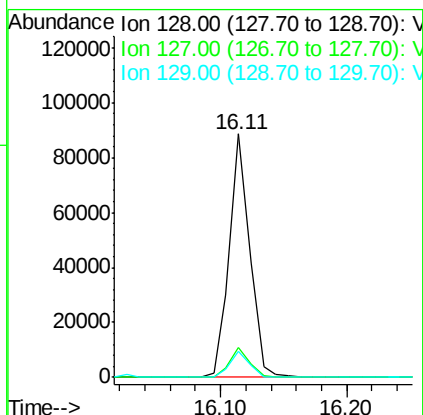
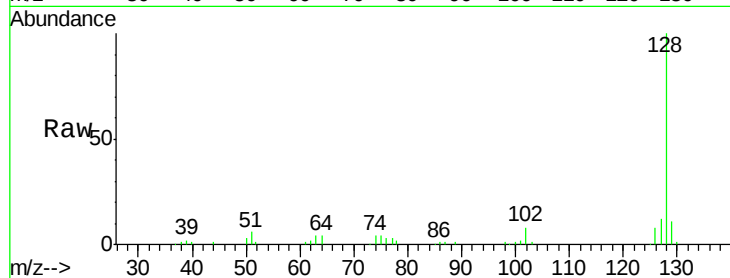




#95
Naphthalene
Concen: 11.040 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:128 Resp: 99247
Ion Ratio Lower Upper
128 100
127 12.2 9.8 14.8
129 10.6 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 11.368 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VD062087.D
Acq: 30 Apr 2019 15:07

Tgt Ion:180 Resp: 35910
Ion Ratio Lower Upper
180 100
182 94.5 47.0 141.0
145 33.2 17.0 51.0

