

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100419\
 Data File : VD063890.D
 Acq On : 04 Oct 2019 17:39
 Operator : VA/SY
 Sample : K5111-02 5PPB LOQ
 Misc : 5.00g/5.00mL/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Quant Time: Oct 05 02:19:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	178997	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	292725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	286521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	142342	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	10175	5.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.68%	
35) Dibromofluoromethane	7.91	113	10471	5.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.70%	
50) Toluene-d8	10.34	98	40741	5.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.22%	
62) 4-Bromofluorobenzene	12.63	95	13406	5.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.62%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.99	85	5943	4.682 ug/l #	57
3) Chloromethane	2.21	50	22514	5.791 ug/l	98
4) Vinyl Chloride	2.35	62	21704	5.290 ug/l	94
5) Bromomethane	2.77	94	13967	5.295 ug/l	99
6) Chloroethane	2.92	64	15475	5.703 ug/l #	89
7) Trichlorofluoromethane	3.27	101	30610	5.643 ug/l	98
8) Diethyl Ether	3.71	74	5480	6.294 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	8473	5.643 ug/l	97
10) Methyl Iodide	4.30	142	10484	5.067 ug/l	95
11) Tert butyl alcohol	5.25	59	1580	12.782 ug/l #	62
12) 1,1-Dichloroethene	4.06	96	8740	5.826 ug/l #	67
13) Acrolein	3.93	56	3851	24.742 ug/l #	70
14) Allyl chloride	4.70	41	7049	2.826 ug/l #	22
15) Acrylonitrile	5.42	53	10958	28.547 ug/l	95
16) Acetone	4.16	43	5958	13.132 ug/l #	86
17) Carbon Disulfide	4.40	76	27240	4.995 ug/l #	90
18) Methyl Acetate	4.73	43	6374	7.183 ug/l #	78
19) Methyl tert-butyl Ether	5.48	73	19743	5.082 ug/l	92
20) Methylene Chloride	4.96	84	18662	8.014 ug/l	96
21) trans-1,2-Dichloroethene	5.46	96	4370	2.340 ug/l #	88
22) Diisopropyl ether	6.37	45	27663	5.431 ug/l	90
23) Vinyl Acetate	6.31	43	78828	26.014 ug/l	98
24) 1,1-Dichloroethane	6.27	63	19415	6.188 ug/l	96
25) 2-Butanone	7.23	43	14275	26.548 ug/l	99
26) 2,2-Dichloropropane	7.20	77	14216	5.009 ug/l #	53
27) cis-1,2-Dichloroethene	7.21	96	10574	5.002 ug/l	89
28) Bromochloromethane	7.55	49	7255	6.171 ug/l #	87
29) Tetrahydrofuran	7.57	42	8953	28.527 ug/l	89
30) Chloroform	7.72	83	18318	5.375 ug/l	100
31) Cyclohexane	7.98	56	18430	6.265 ug/l #	82
32) 1,1,1-Trichloroethane	7.90	97	15480	5.296 ug/l	95
36) 1,1-Dichloropropene	8.12	75	13673	5.109 ug/l	95
37) Ethyl Acetate	7.31	43	6850	5.640 ug/l #	94
38) Carbon Tetrachloride	8.09	117	14206	5.252 ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.36	83	16470	5.005	ug/l	98
40) Benzene	8.35	78	39578	5.160	ug/l	100
41) Methacrylonitrile	7.53	41	3688	5.943	ug/l #	44
42) 1,2-Dichloroethane	8.43	62	11552	5.207	ug/l	96
43) Isopropyl Acetate	8.46	43	12002	5.347	ug/l #	63
44) Trichloroethene	9.11	130	11890	5.376	ug/l	98
45) 1,2-Dichloropropane	9.39	63	9823	5.232	ug/l	98
46) Dibromomethane	9.48	93	5786	5.412	ug/l	91
47) Bromodichloromethane	9.67	83	13432	4.880	ug/l #	96
48) Methyl methacrylate	9.46	41	4552	4.233	ug/l #	86
49) 1,4-Dioxane	9.47	88	1783	122.173	ug/l #	53
51) 4-Methyl-2-Pentanone	10.24	43	30079	25.839	ug/l	99
52) Toluene	10.41	92	25217	4.789	ug/l	94
53) t-1,3-Dichloropropene	10.62	75	11966	4.455	ug/l #	89
54) cis-1,3-Dichloropropene	10.09	75	15028	4.860	ug/l #	88
55) 1,1,2-Trichloroethane	10.80	97	7721	5.115	ug/l #	90
56) Ethyl methacrylate	10.66	69	8795	4.601	ug/l #	83
57) 1,3-Dichloropropane	10.94	76	13415	5.194	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	21532	26.203	ug/l	99
59) 2-Hexanone	10.98	43	19948	23.689	ug/l	97
60) Dibromochloromethane	11.14	129	8895	4.526	ug/l	89
61) 1,2-Dibromoethane	11.25	107	7131	4.873	ug/l	95
64) Tetrachloroethene	10.88	164	10366	5.300	ug/l #	88
65) Chlorobenzene	11.67	112	29824	5.183	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.74	131	9496	4.479	ug/l	92
67) Ethyl Benzene	11.74	91	52491	5.059	ug/l	100
68) m/p-Xylenes	11.86	106	37644	9.400	ug/l	96
69) o-Xylene	12.18	106	17295	4.510	ug/l	97
70) Styrene	12.19	104	29618	4.562	ug/l	98
71) Bromoform	12.36	173	5239	4.604	ug/l #	100
73) Isopropylbenzene	12.48	105	46384	4.847	ug/l	99
74) N-amyl acetate	12.29	43	11169	5.421	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.73	83	8821	5.298	ug/l	91
76) 1,2,3-Trichloropropane	12.78	75	10989	11.527	ug/l #	100
77) Bromobenzene	12.76	156	12507	5.246	ug/l	93
78) n-propylbenzene	12.83	91	58292	5.190	ug/l	99
79) 2-Chlorotoluene	12.91	91	30017	4.847	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	38626	4.838	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	2405	4.464	ug/l #	85
82) 4-Chlorotoluene	13.01	91	34160	5.199	ug/l	98
83) tert-Butylbenzene	13.23	119	36160	5.090	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	37633	4.573	ug/l	98
85) sec-Butylbenzene	13.40	105	48803	5.086	ug/l	96
86) p-Isopropyltoluene	13.52	119	40887	4.503	ug/l	97
87) 1,3-Dichlorobenzene	13.51	146	22661	4.811	ug/l	97
88) 1,4-Dichlorobenzene	13.60	146	23127	4.977	ug/l	89
89) n-Butylbenzene	13.84	91	43921	5.197	ug/l	96
90) Hexachloroethane	14.11	117	8019	4.911	ug/l	91
91) 1,2-Dichlorobenzene	13.90	146	19596	4.827	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1220	4.235	ug/l	80

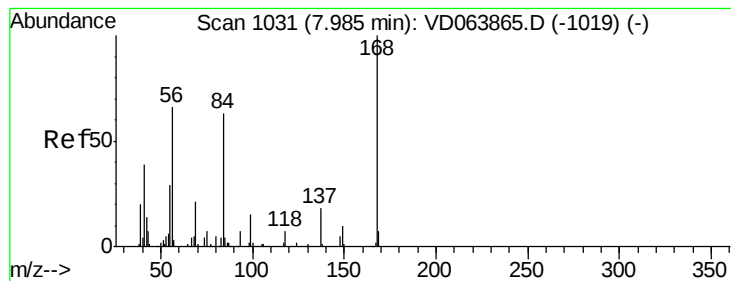
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD100419\
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Acq On : 04 Oct 2019 17:39
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QLast Update : Fri Oct 04 01:55:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	14861	4.744	ug/l	98
94) Hexachlorobutadiene	15.27	225	8030	4.646	ug/l	86
95) Naphthalene	15.40	128	25263	4.799	ug/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	14071	5.207	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

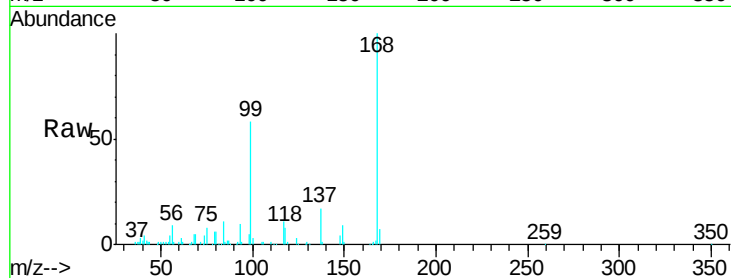
LOQ-SOIL-02-QT4-2019

Tgt Ion:168 Resp: 178997

Ion Ratio Lower Upper

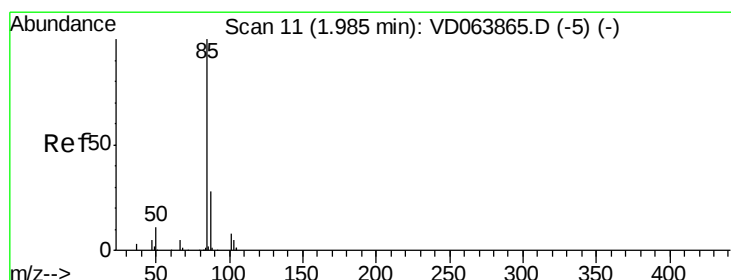
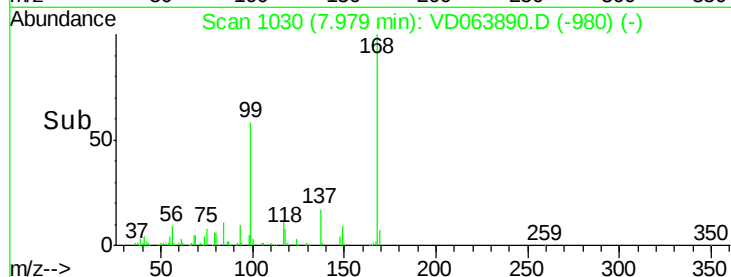
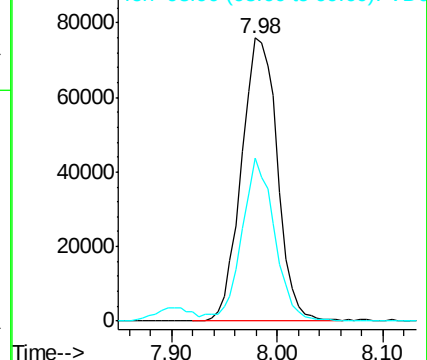
168 100

99 57.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.682 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063890.D

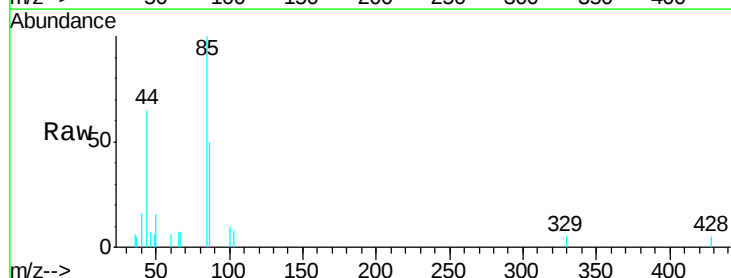
Acq: 04 Oct 2019 17:39

Tgt Ion: 85 Resp: 5943

Ion Ratio Lower Upper

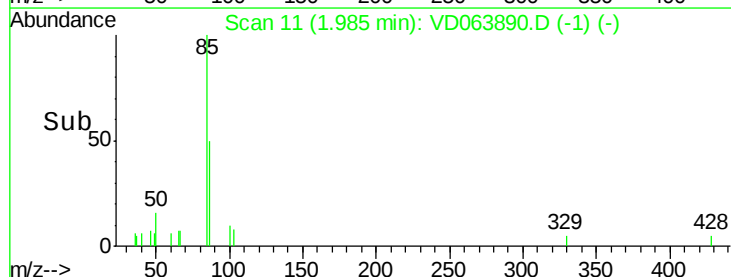
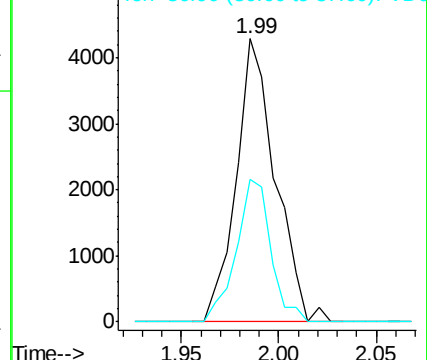
85 100

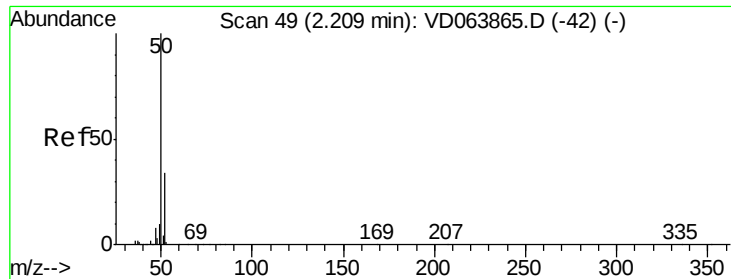
87 50.5 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 5.791 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

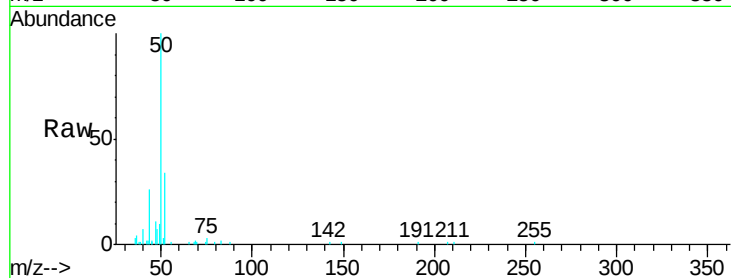
LOQ-SOIL-02-QT4-2019

Tgt Ion: 50 Resp: 22514

Ion Ratio Lower Upper

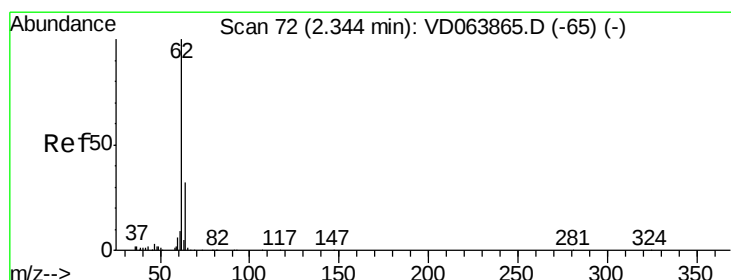
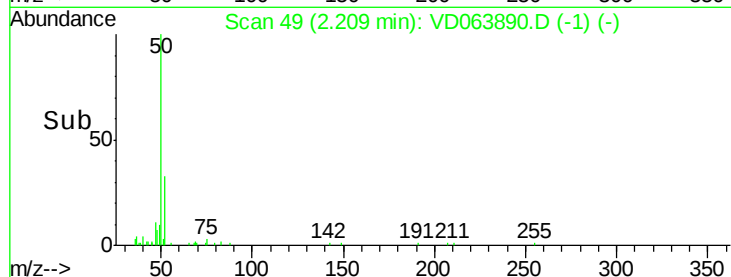
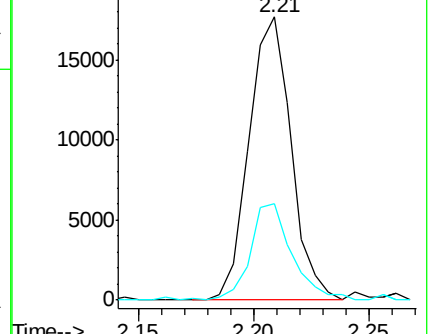
50 100

52 33.4 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 5.290 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063890.D

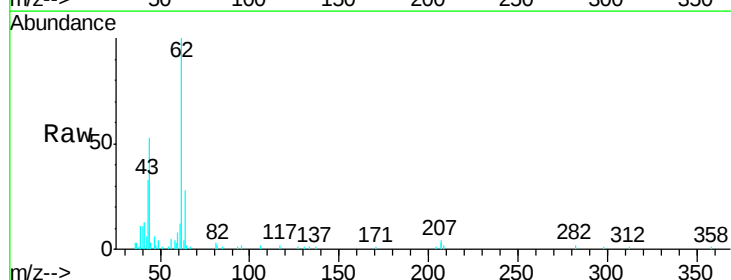
Acq: 04 Oct 2019 17:39

Tgt Ion: 62 Resp: 21704

Ion Ratio Lower Upper

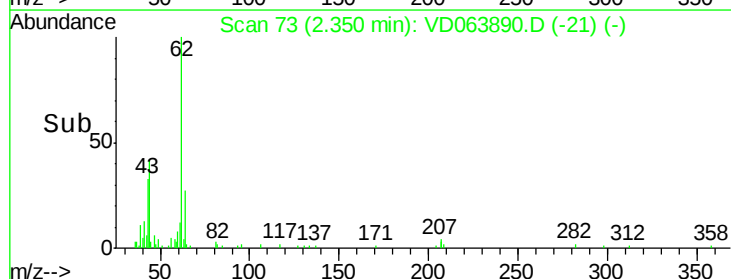
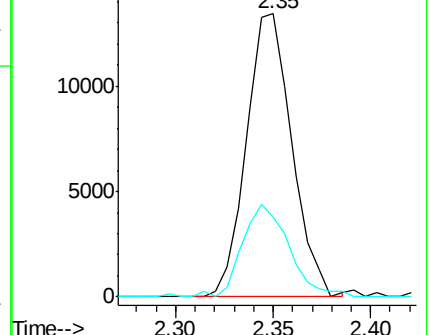
62 100

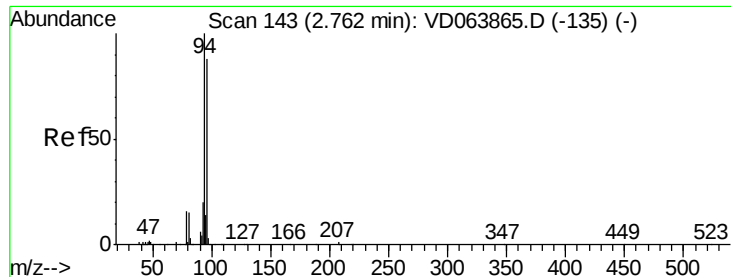
64 28.3 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 5.295 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

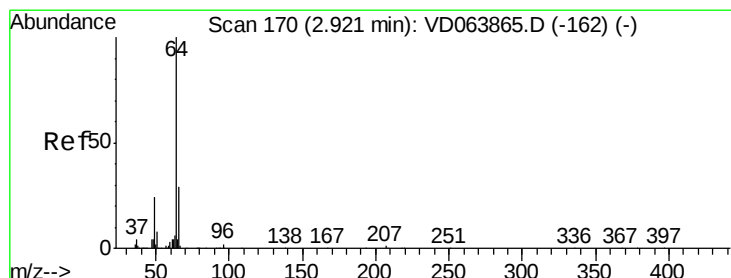
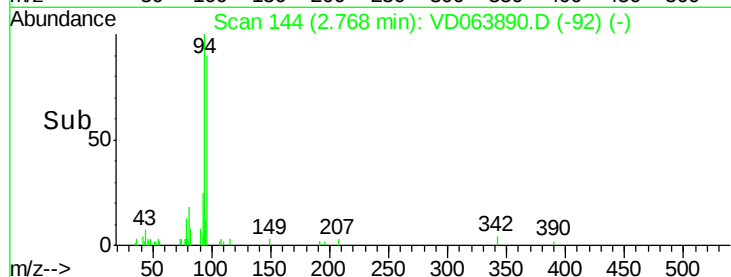
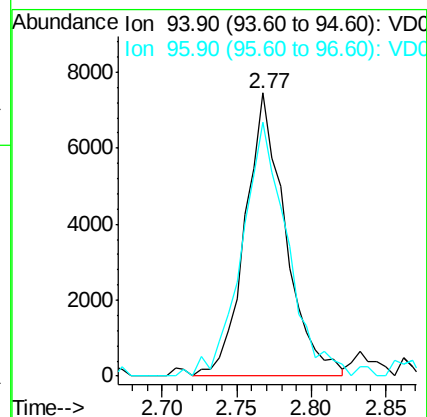
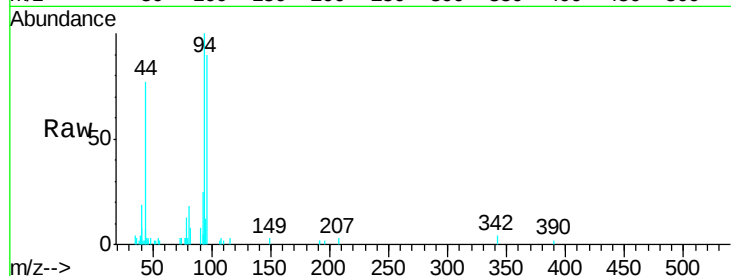
LOQ-SOIL-02-QT4-2019

Tgt Ion: 94 Resp: 13967

Ion Ratio Lower Upper

94 100

96 89.8 70.8 106.2



#6

Chloroethane

Concen: 5.703 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD063890.D

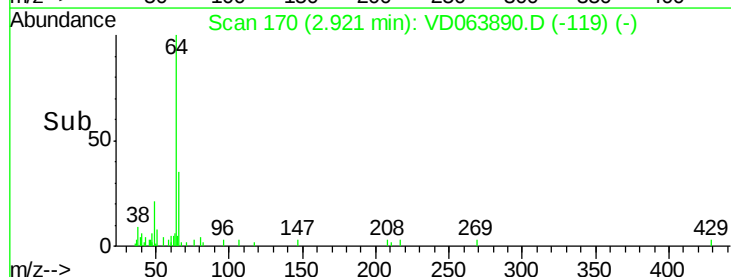
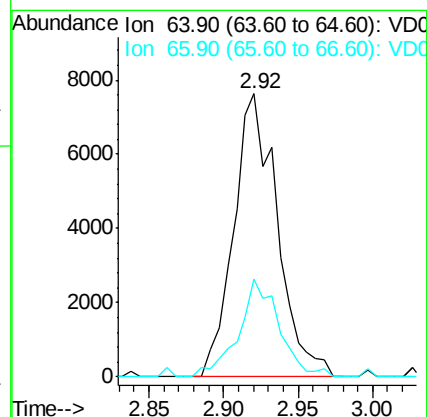
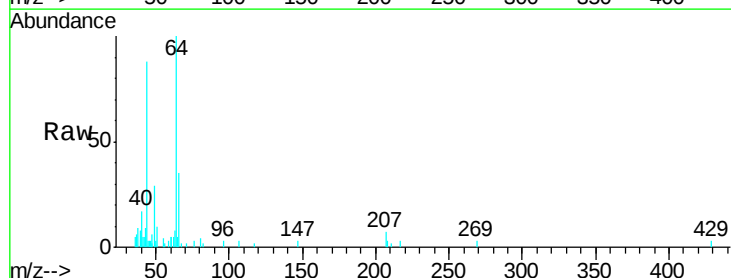
Acq: 04 Oct 2019 17:39

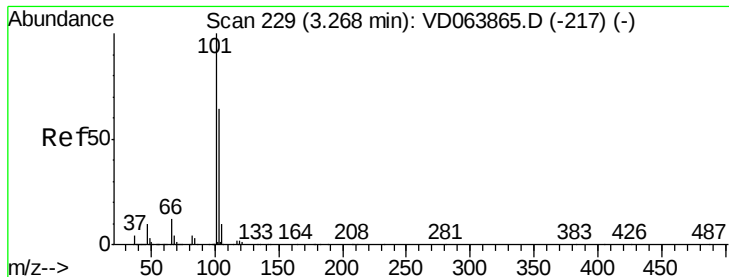
Tgt Ion: 64 Resp: 15475

Ion Ratio Lower Upper

64 100

66 34.7 23.0 34.4#



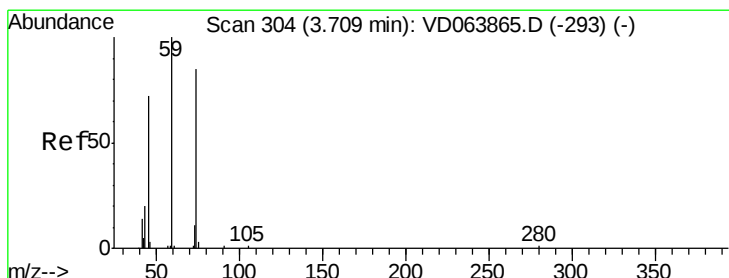
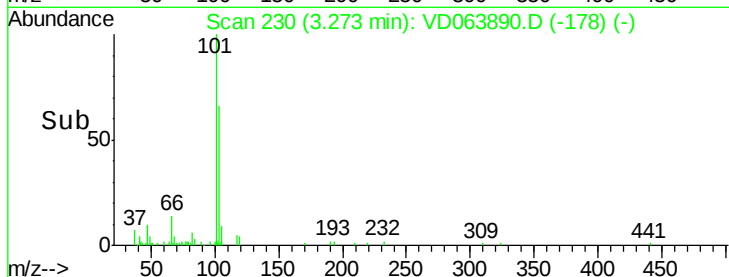
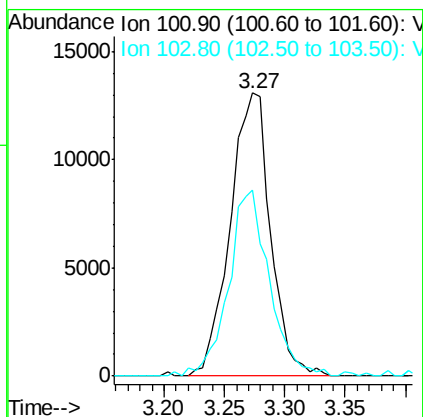
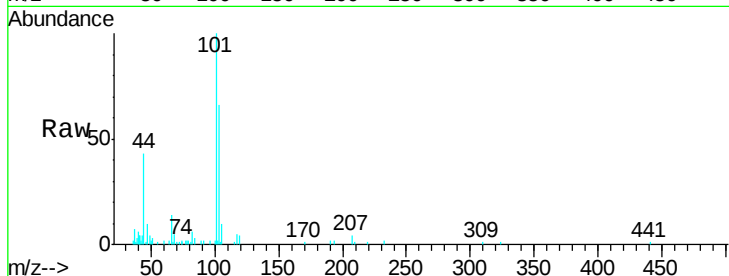


#7

Trichlorofluoromethane
 Concen: 5.643 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

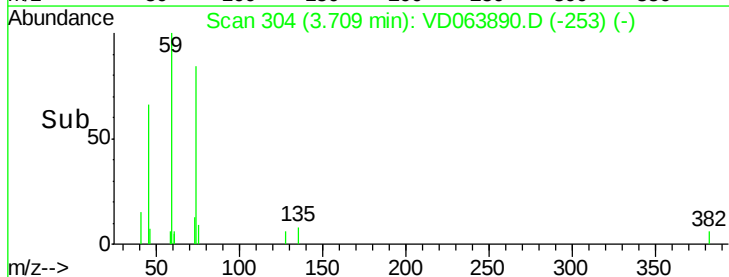
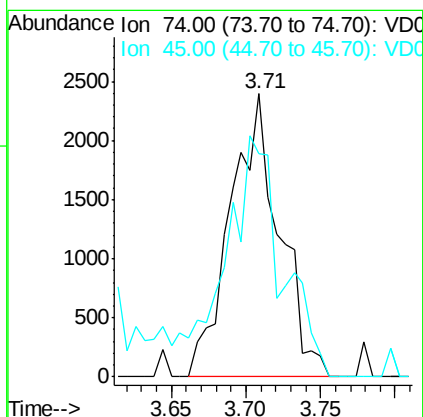
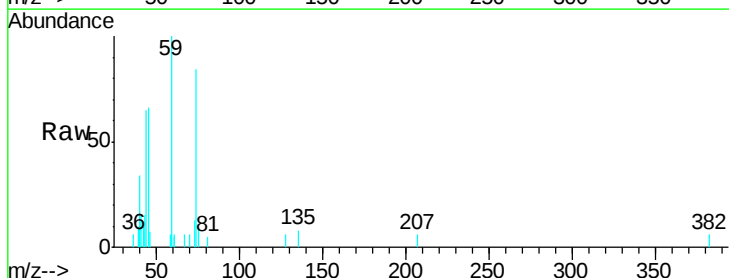
Tgt Ion:101 Resp: 30610
 Ion Ratio Lower Upper
 101 100
 103 65.8 51.1 76.7

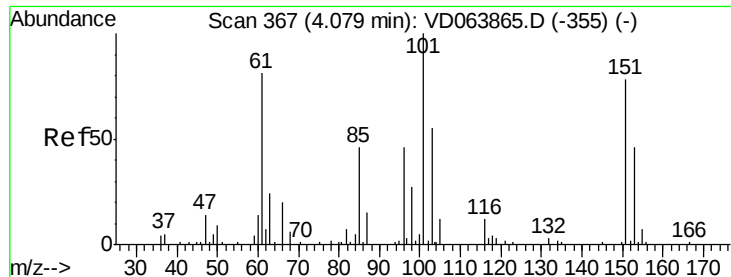


#8

Diethyl Ether
 Concen: 6.294 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 74 Resp: 5480
 Ion Ratio Lower Upper
 74 100
 45 94.6 48.1 144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.643 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

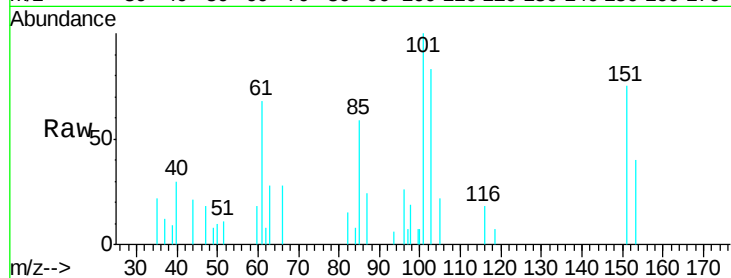
Tgt Ion:101 Resp: 8473

Ion Ratio Lower Upper

101 100

85 47.1 37.5 56.3

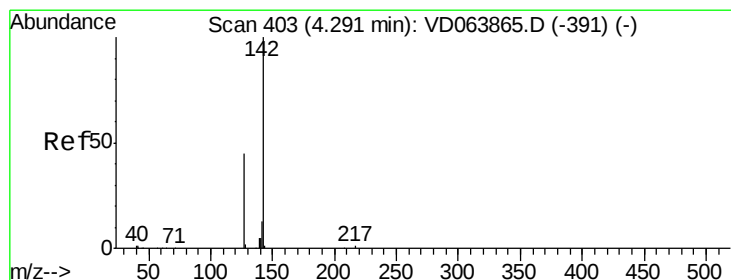
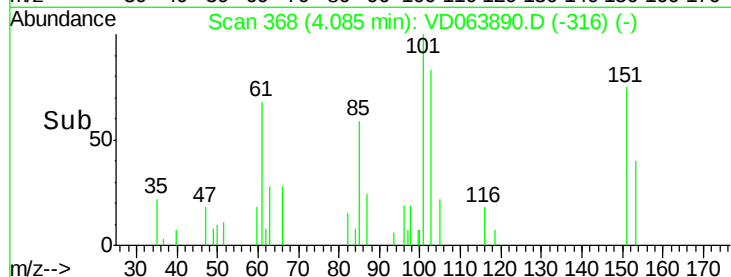
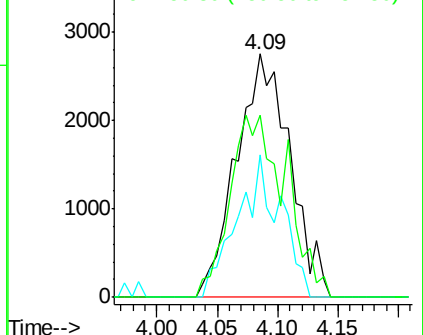
151 78.2 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.067 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

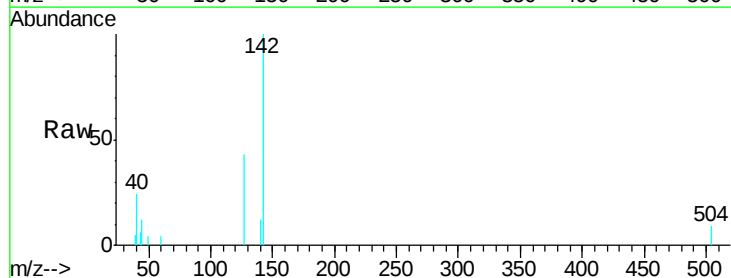
Tgt Ion:142 Resp: 10484

Ion Ratio Lower Upper

142 100

127 40.6 35.3 52.9

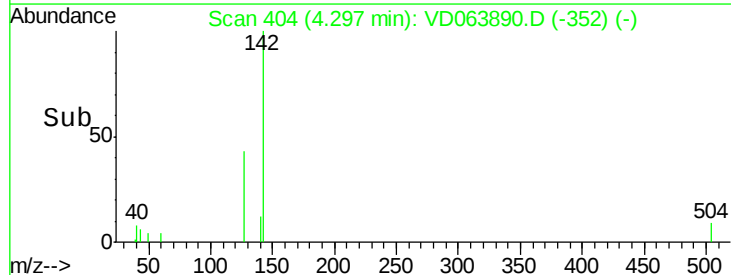
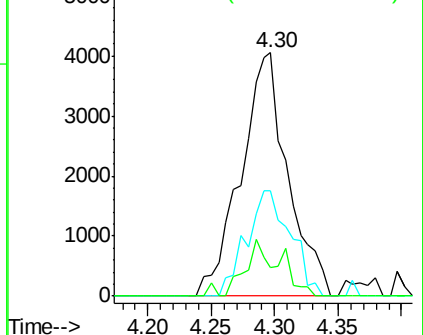
141 16.7 12.2 18.2

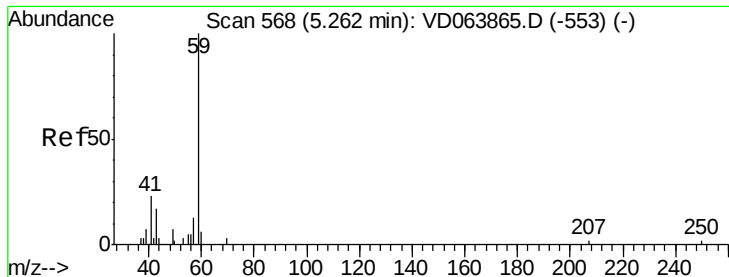


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



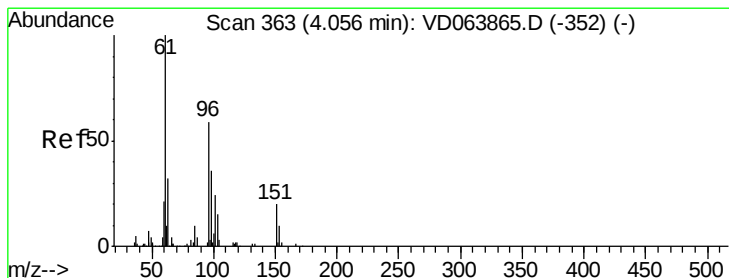
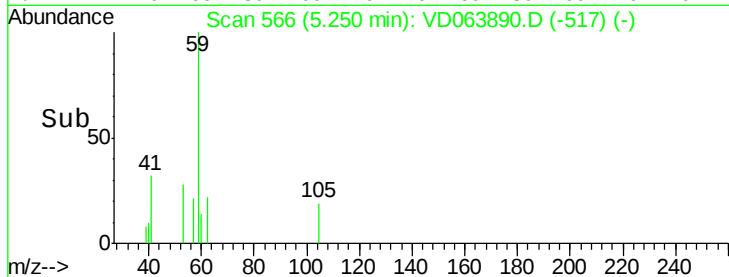
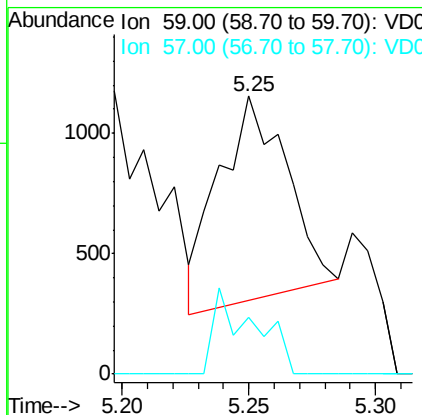
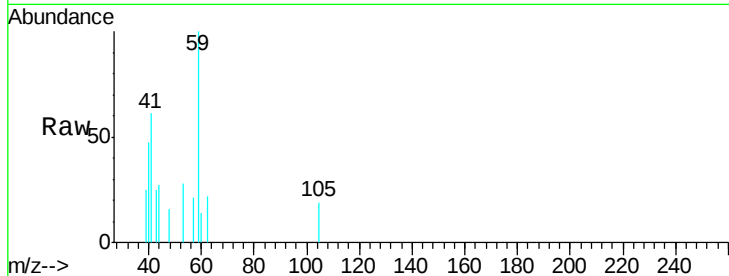


#11

Tert butyl alcohol
 Concen: 12.782 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

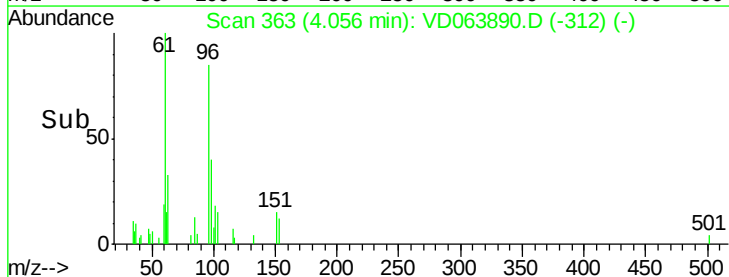
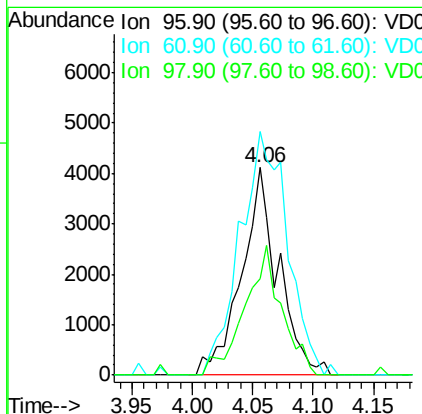
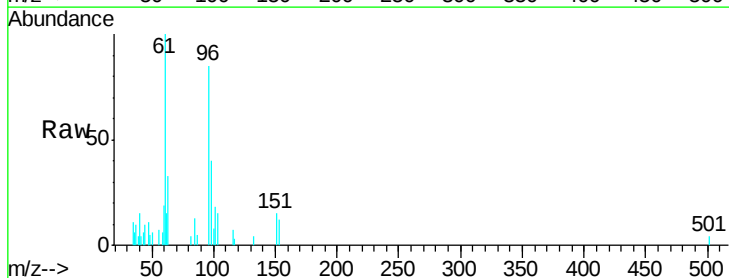
Tgt Ion: 59 Resp: 1580
 Ion Ratio Lower Upper
 59 100
 57 25.4 8.8 13.2#

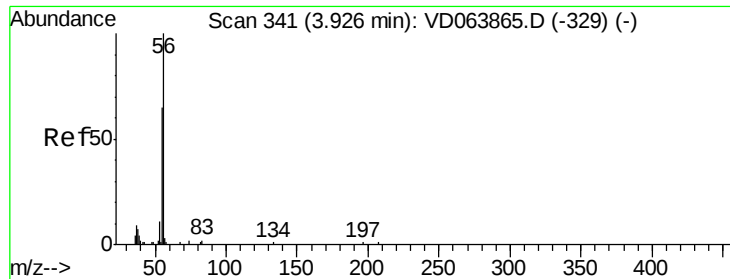


#12

1,1-Dichloroethene
 Concen: 5.826 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 96 Resp: 8740
 Ion Ratio Lower Upper
 96 100
 61 117.2 135.6 203.4#
 98 46.6 49.2 73.8#

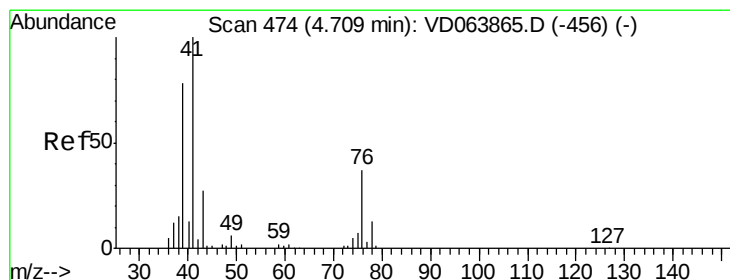
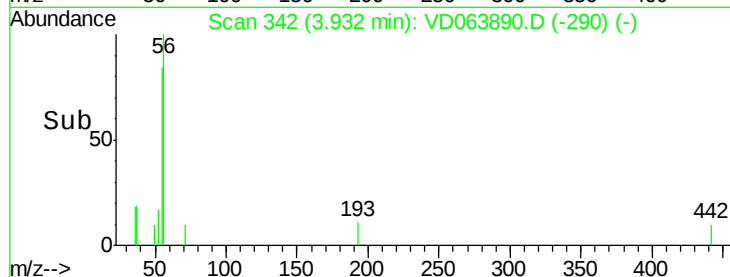
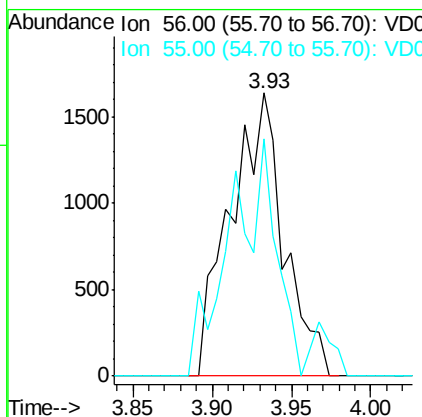
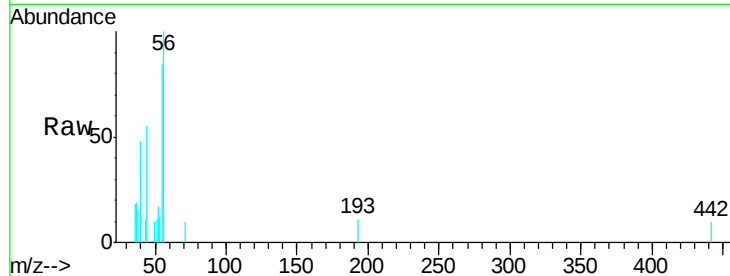




#13
 Acrolein
 Concen: 24.742 ug/l
 RT: 3.93 min Scan# 342
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

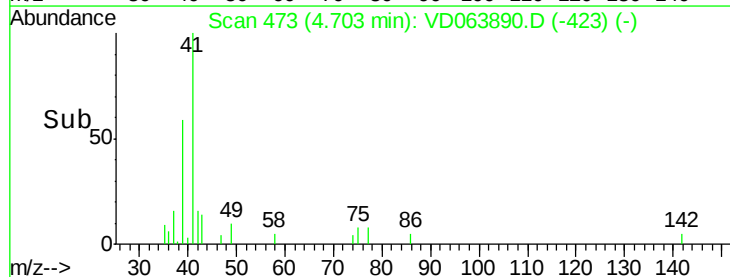
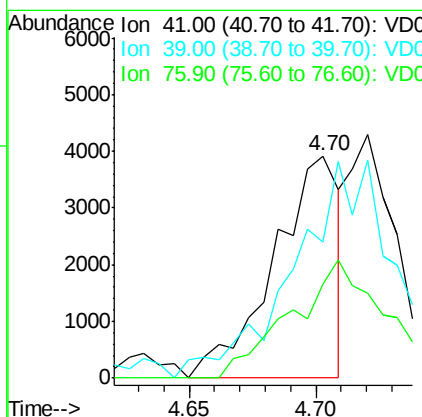
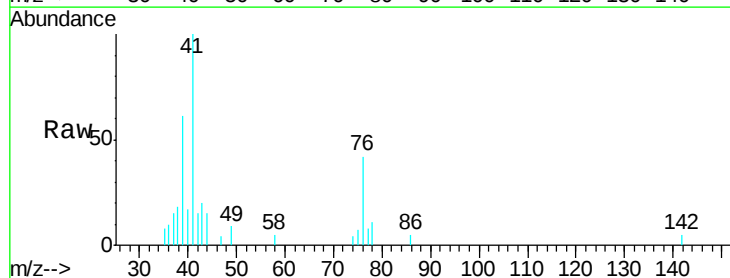
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

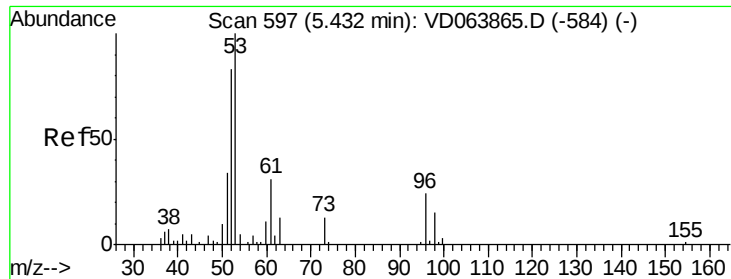
Tgt Ion: 56 Resp: 3851
 Ion Ratio Lower Upper
 56 100
 55 42.7 53.0 79.6#



#14
 Allyl chloride
 Concen: 2.826 ug/l
 RT: 4.70 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 41 Resp: 7049
 Ion Ratio Lower Upper
 41 100
 39 152.2 61.8 92.6#
 76 76.4 31.3 46.9#





#15

Acrylonitrile

Concen: 28.547 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

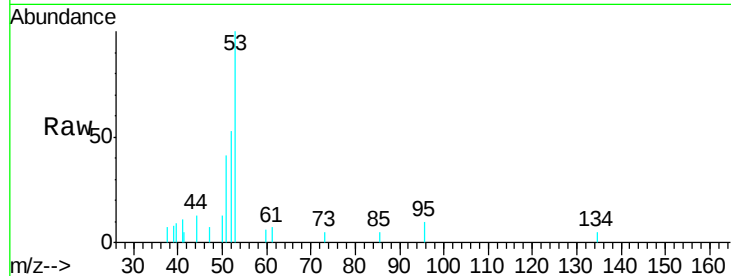
Tgt Ion: 53 Resp: 10958

Ion Ratio Lower Upper

53 100

52 79.4 67.3 100.9

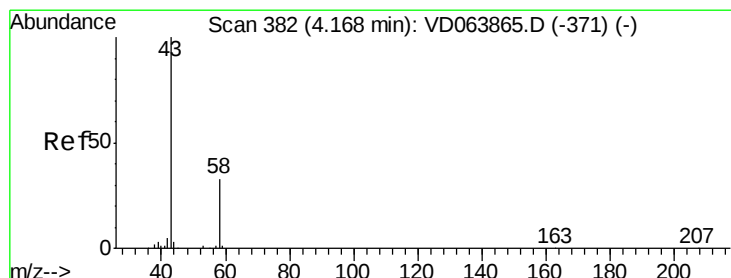
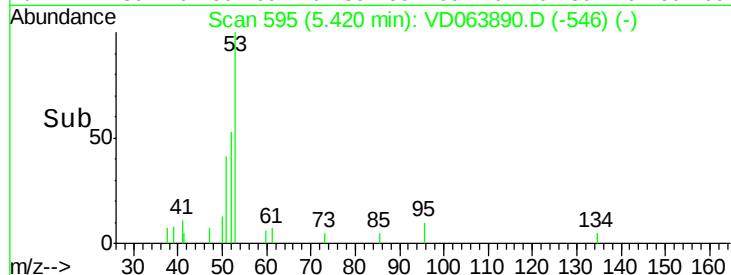
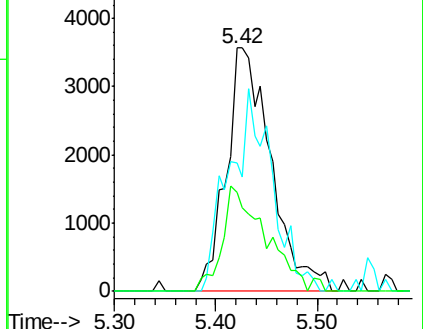
51 41.3 30.5 45.7



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: 13.132 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063890.D

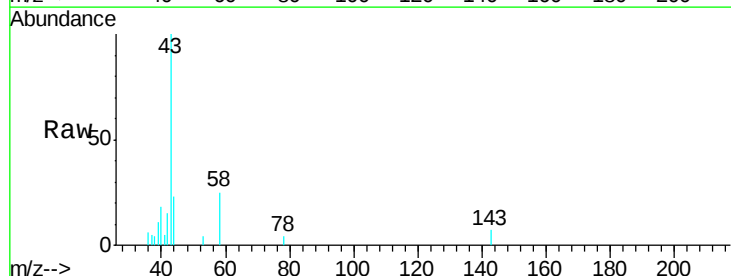
Acq: 04 Oct 2019 17:39

Tgt Ion: 43 Resp: 5958

Ion Ratio Lower Upper

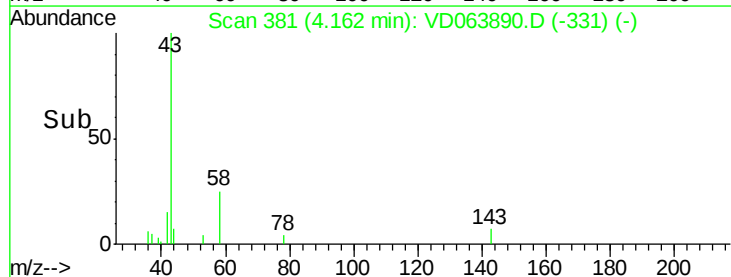
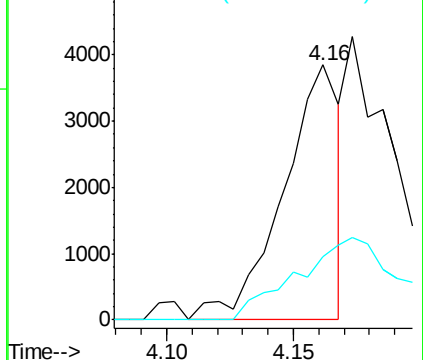
43 100

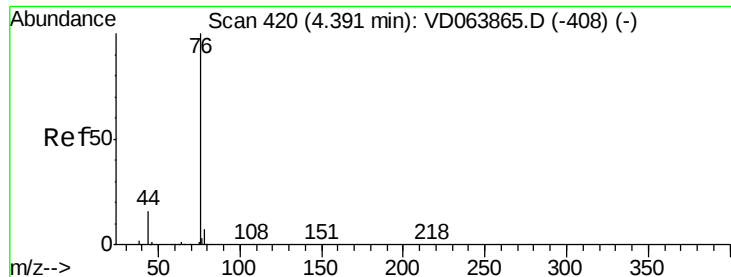
58 24.9 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

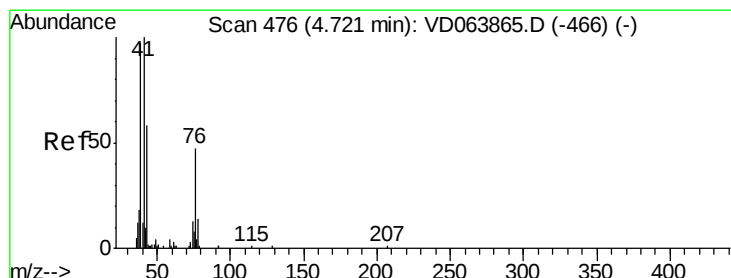
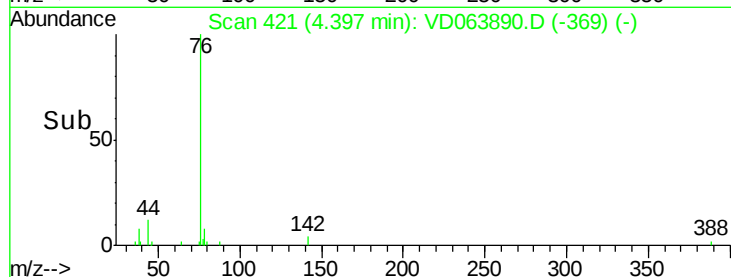
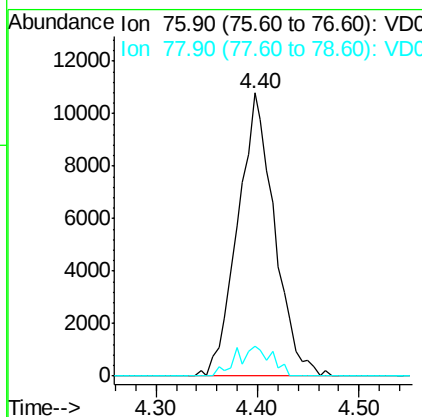
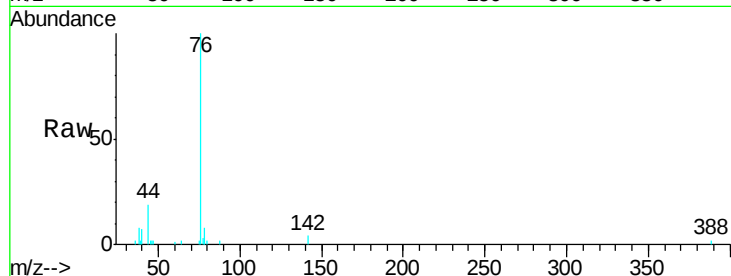




#17
Carbon Disulfide
Concen: 4.995 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

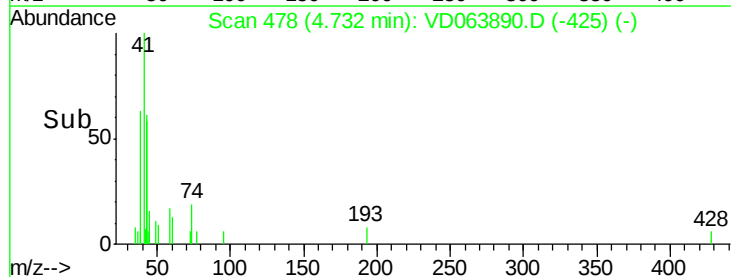
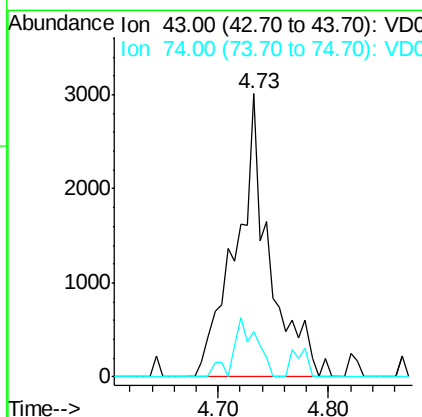
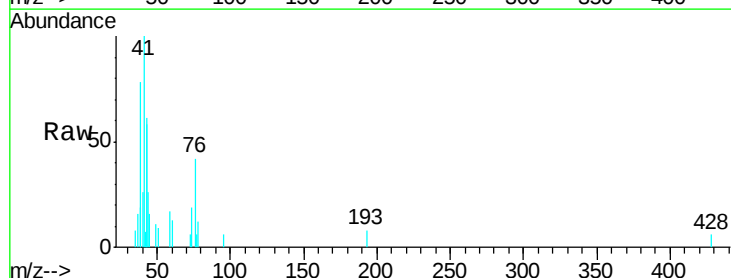
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

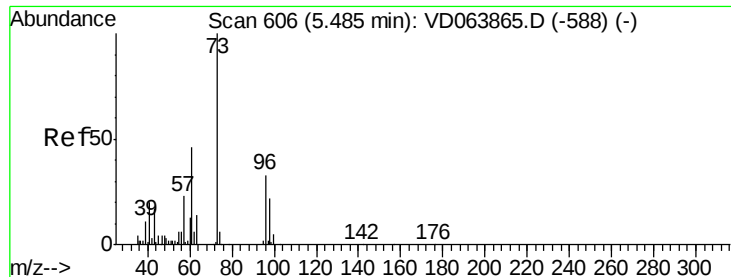
Tgt Ion: 76 Resp: 27240
Ion Ratio Lower Upper
76 100
78 10.8 5.8 8.8#



#18
Methyl Acetate
Concen: 7.183 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 43 Resp: 6374
Ion Ratio Lower Upper
43 100
74 14.8 20.8 31.2#





#19

Methyl tert-butyl Ether

Concen: 5.082 ug/l

RT: 5.48 min Scan# 605

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

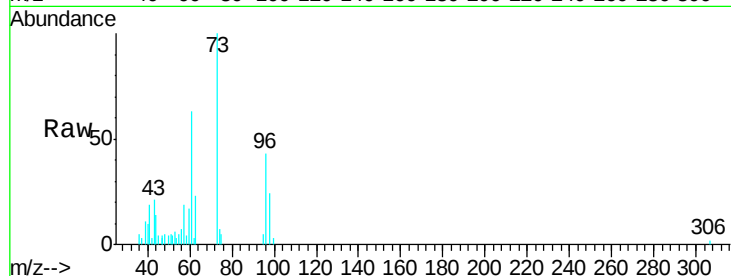
LOQ-SOIL-02-QT4-2019

Tgt Ion: 73 Resp: 19743

Ion Ratio Lower Upper

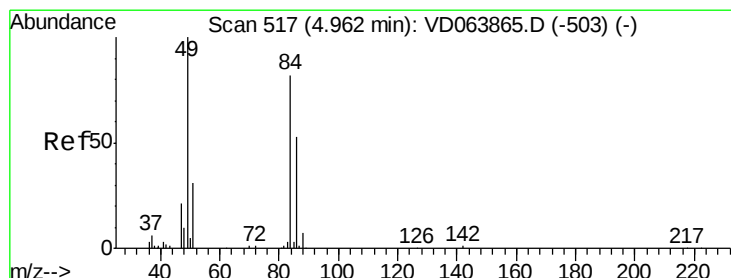
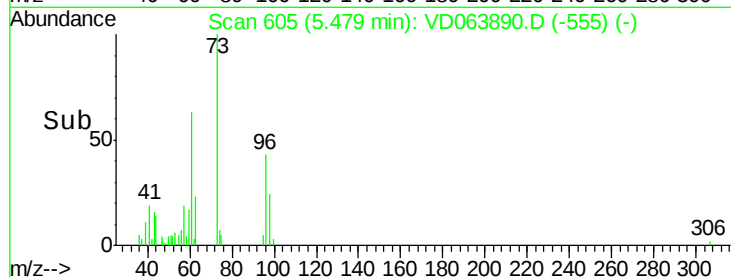
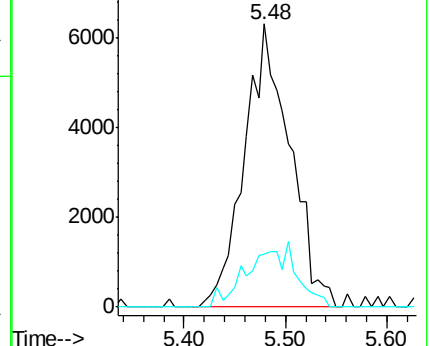
73 100

57 18.8 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#20

Methylene Chloride

Concen: 8.014 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion: 84 Resp: 18662

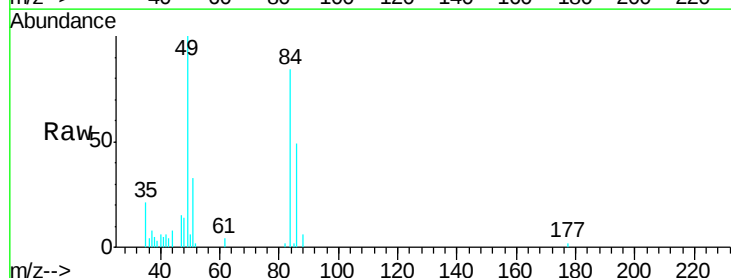
Ion Ratio Lower Upper

84 100

49 118.6 97.3 145.9

51 39.7 30.1 45.1

86 57.6 51.4 77.2

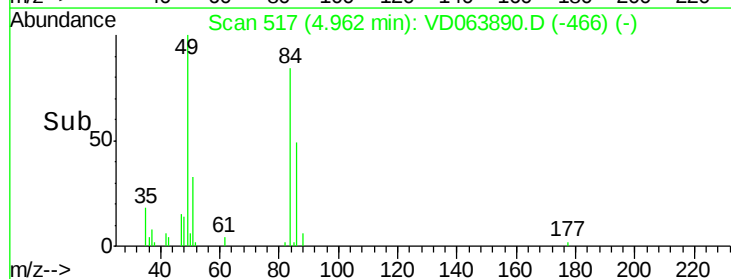
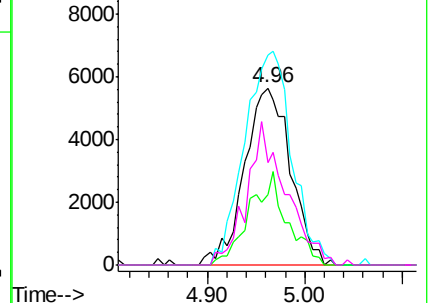


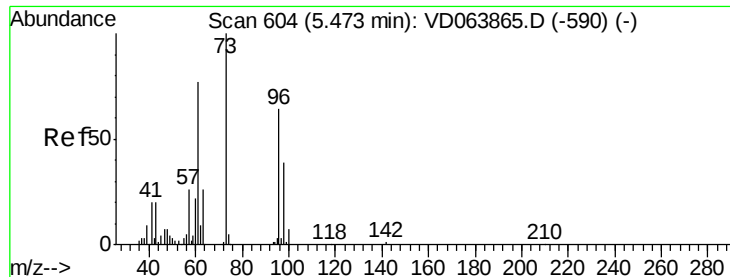
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 2.340 ug/l

RT: 5.46 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

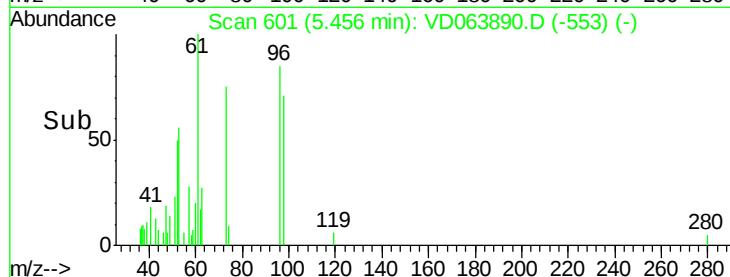
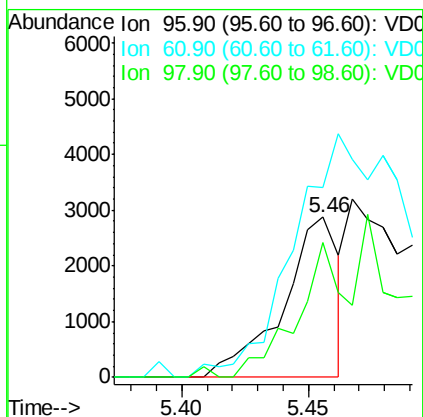
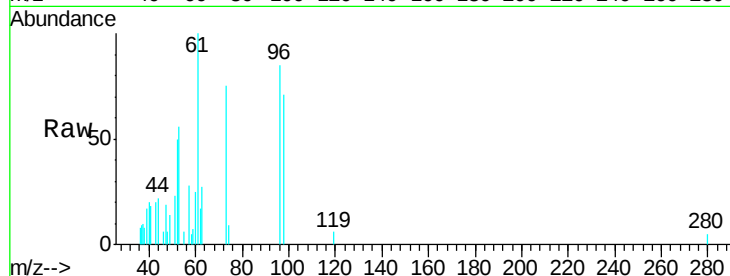
Tgt Ion: 96 Resp: 4370

Ion Ratio Lower Upper

96 100

61 118.3 96.6 145.0

98 84.5 48.7 73.1#



#22

Diisopropyl ether

Concen: 5.431 ug/l

RT: 6.37 min Scan# 757

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion: 45 Resp: 27663

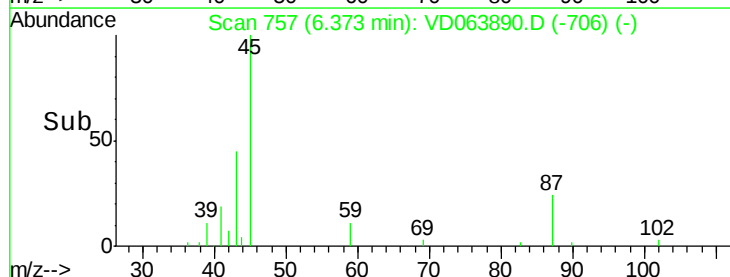
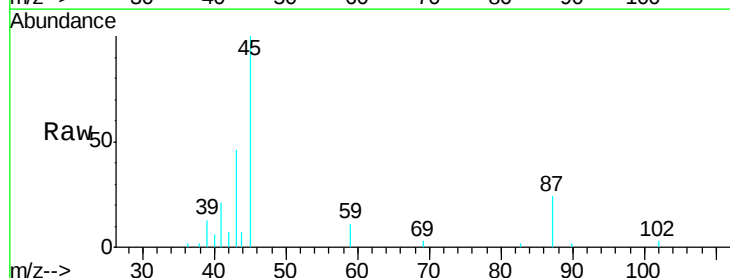
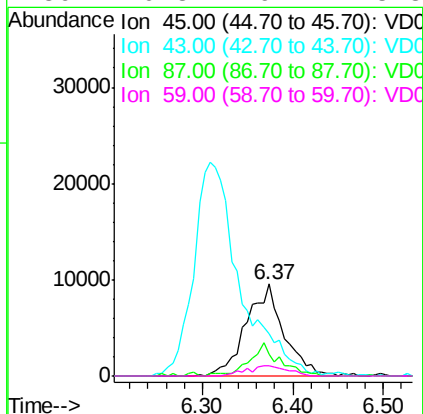
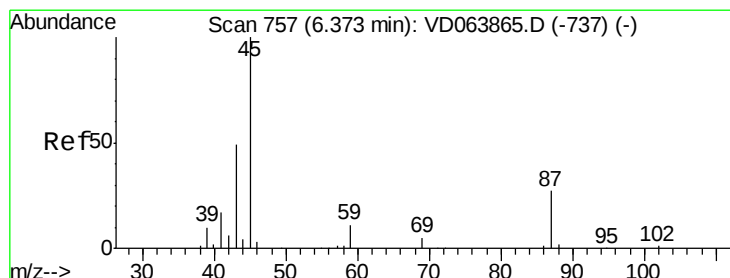
Ion Ratio Lower Upper

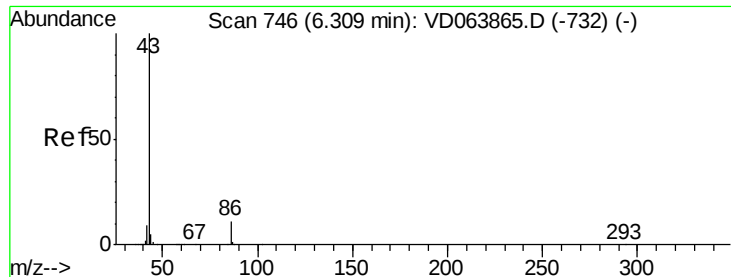
45 100

43 42.5 41.2 61.8

87 23.7 22.2 33.4

59 10.8 9.2 13.8

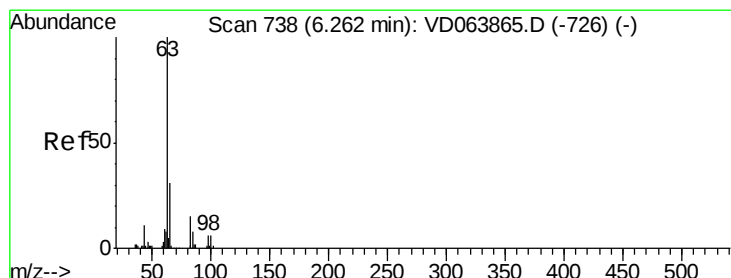
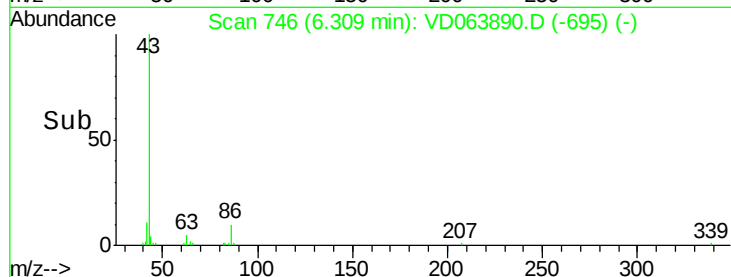
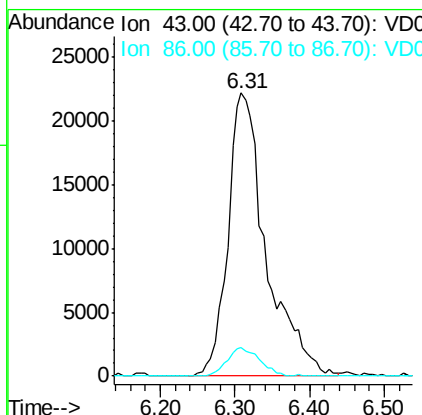
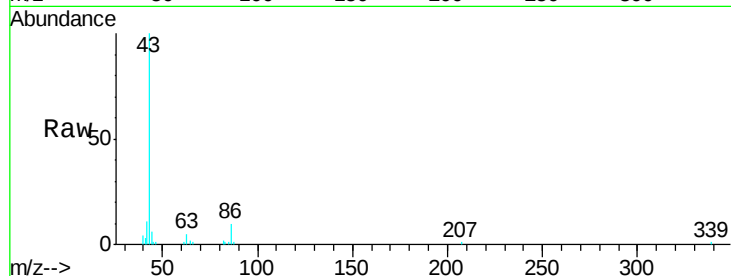




#23
 Vinyl Acetate
 Concen: 26.014 ug/l
 RT: 6.31 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

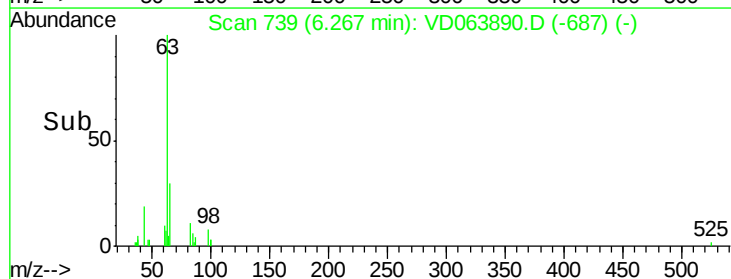
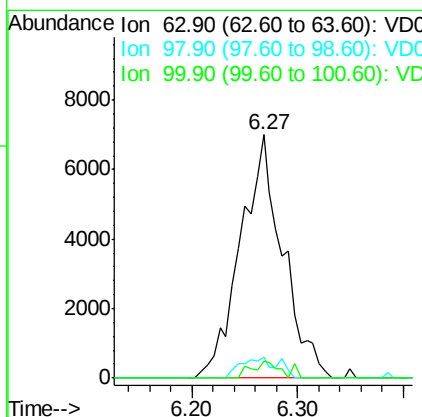
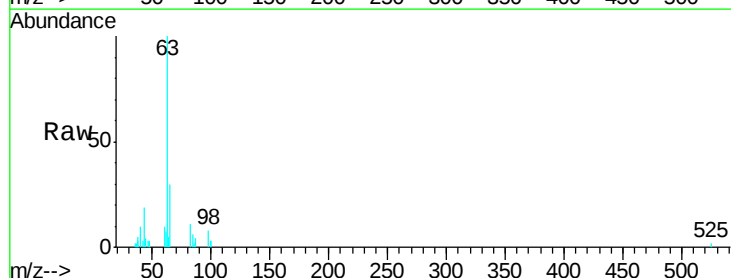
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

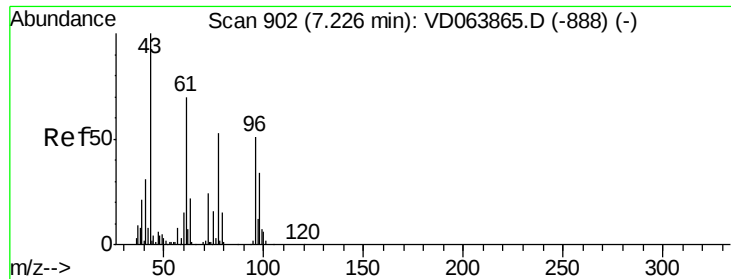
Tgt Ion: 43 Resp: 78828
 Ion Ratio Lower Upper
 43 100
 86 10.1 8.8 13.2



#24
 1,1-Dichloroethane
 Concen: 6.188 ug/l
 RT: 6.27 min Scan# 739
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 63 Resp: 19415
 Ion Ratio Lower Upper
 63 100
 98 8.5 3.1 9.4
 100 6.8 3.0 9.2





#25

2-Butanone

Concen: 26.548 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

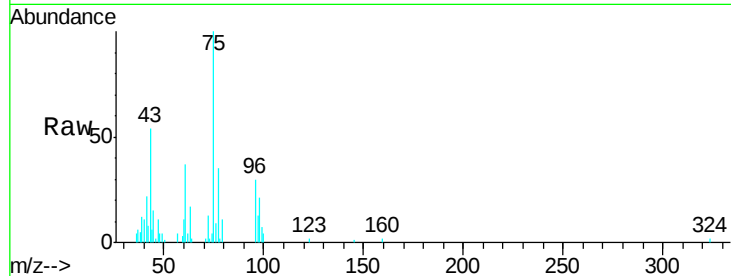
LOQ-SOIL-02-QT4-2019

Tgt Ion: 43 Resp: 14275

Ion Ratio Lower Upper

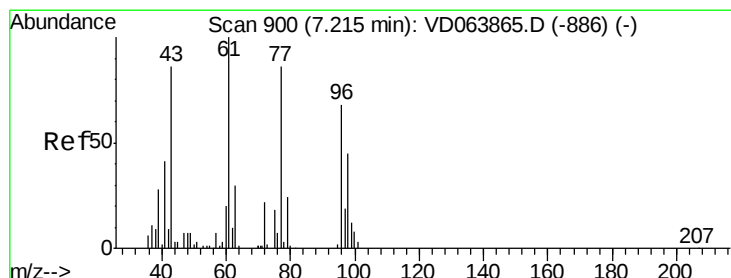
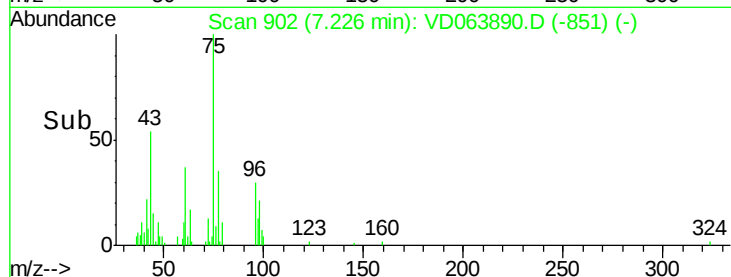
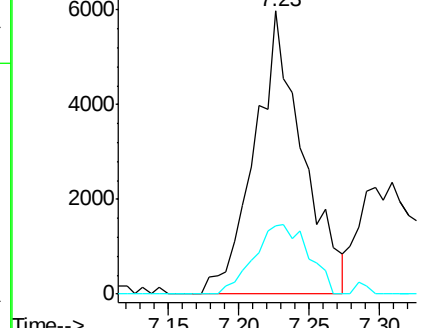
43 100

72 24.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.009 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD063890.D

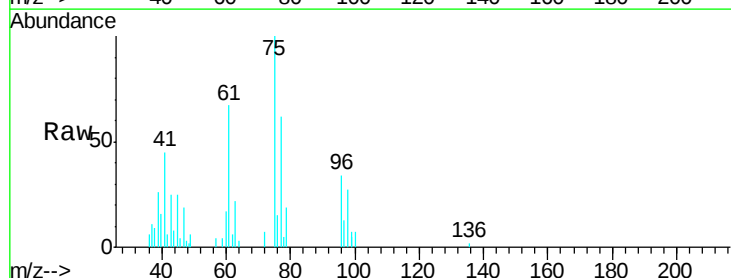
Acq: 04 Oct 2019 17:39

Tgt Ion: 77 Resp: 14216

Ion Ratio Lower Upper

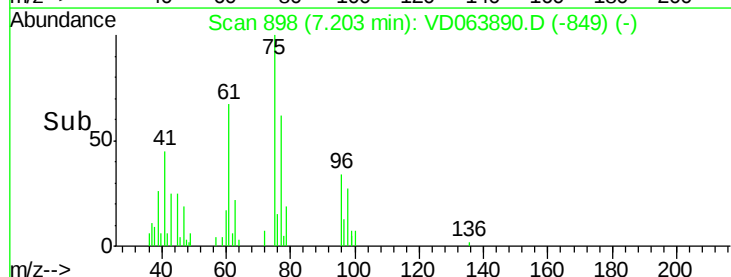
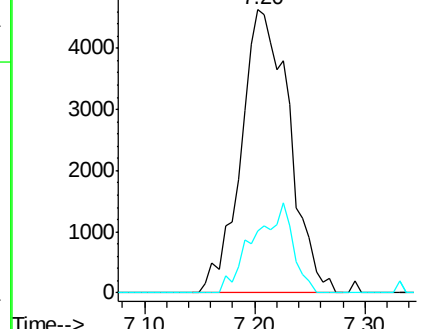
77 100

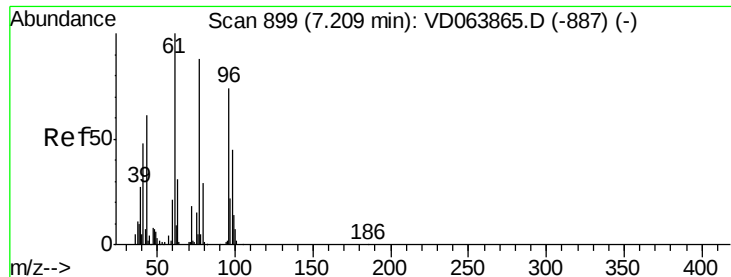
97 0.0 11.4 34.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



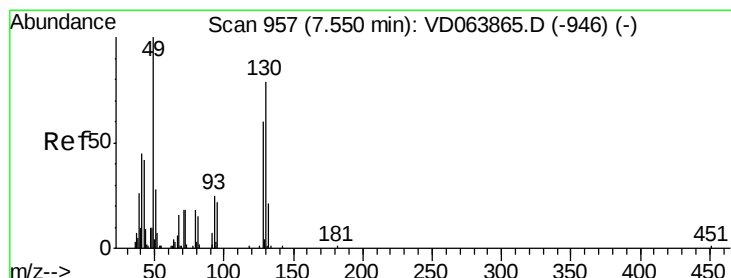
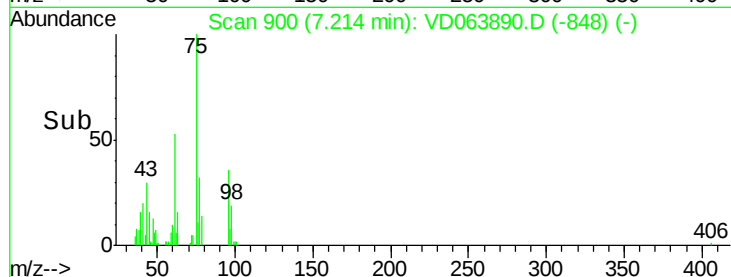
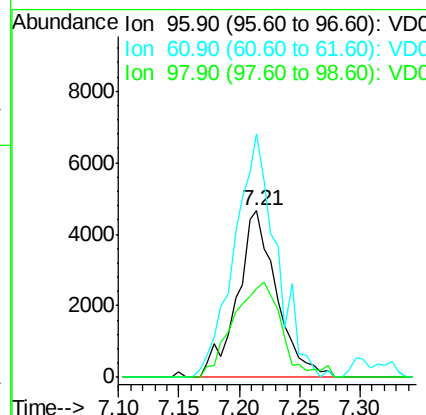
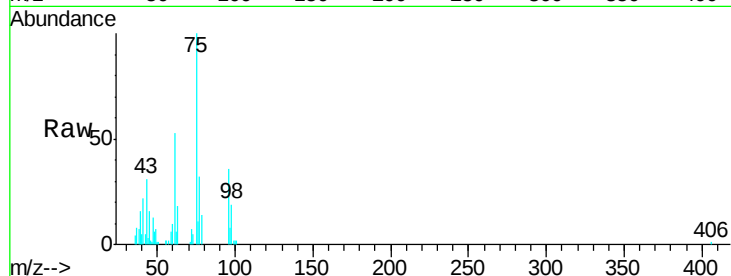


#27

cis-1,2-Dichloroethene
Concen: 5.002 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

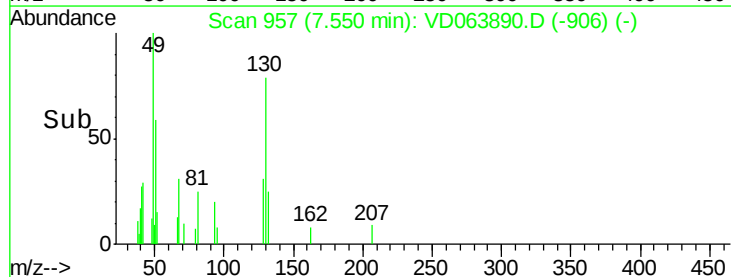
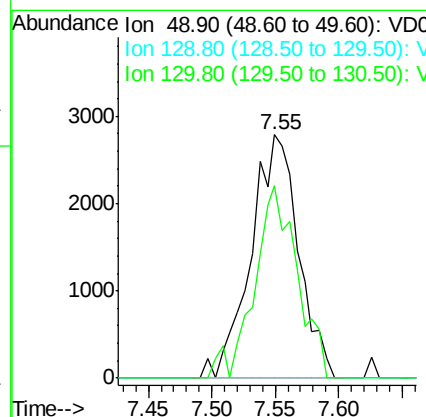
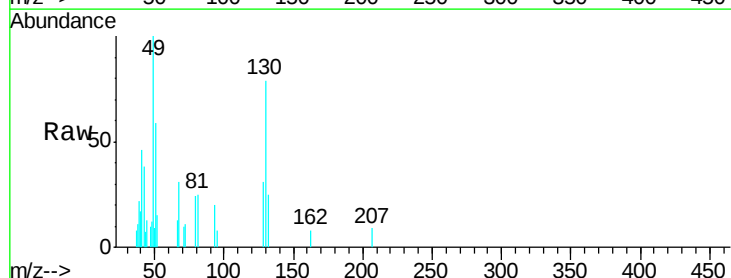
Tgt Ion: 96 Resp: 10574
Ion Ratio Lower Upper
96 100
61 156.4 0.0 280.0
98 70.5 0.0 130.4

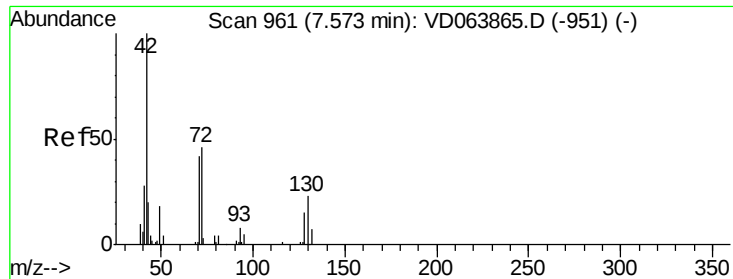


#28

Bromochloromethane
Concen: 6.171 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 49 Resp: 7255
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 71.6 66.8 100.2

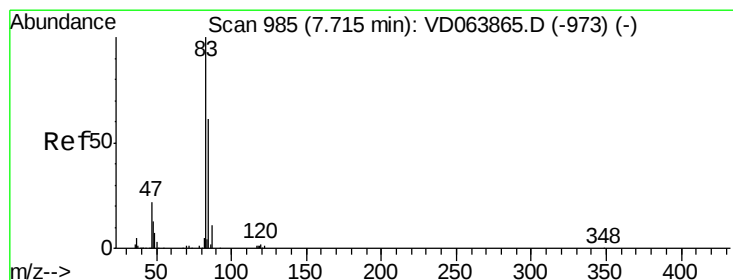
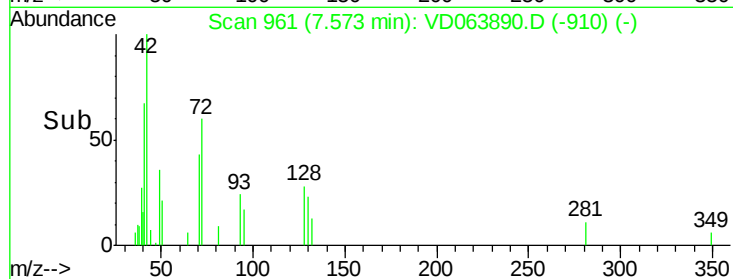
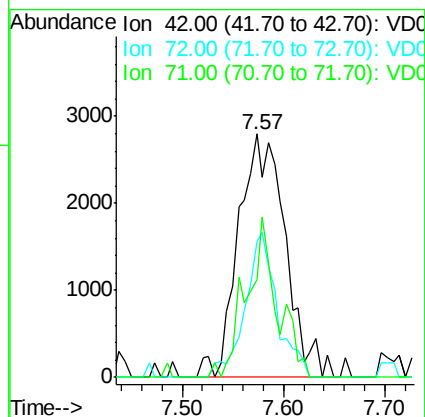
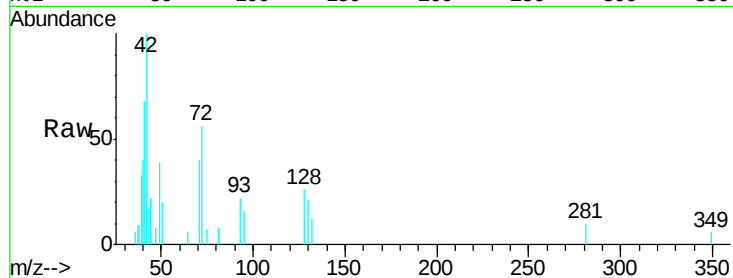




#29
Tetrahydrofuran
Concen: 28.527 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

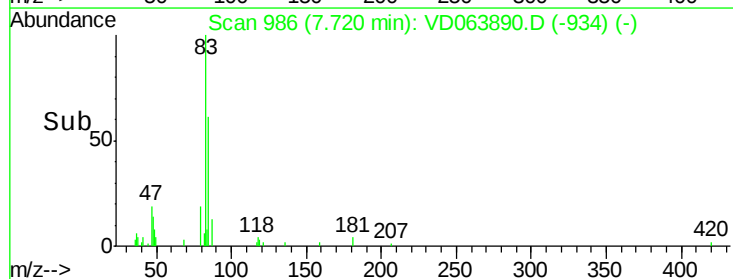
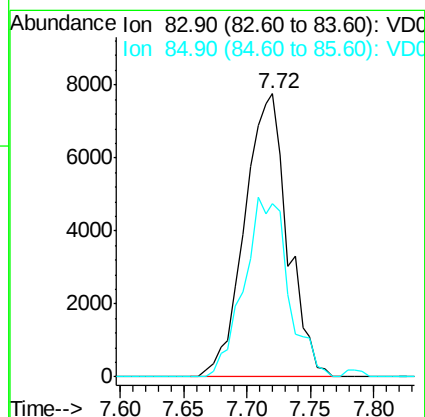
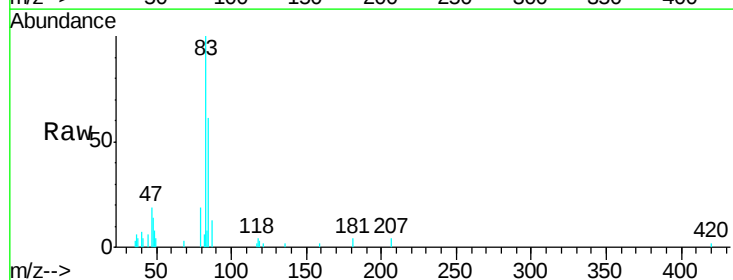
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

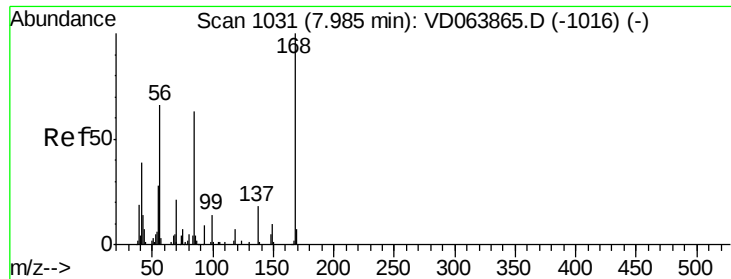
Tgt Ion: 42 Resp: 8953
Ion Ratio Lower Upper
42 100
72 40.5 37.6 56.4
71 36.0 35.0 52.6



#30
Chloroform
Concen: 5.375 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 83 Resp: 18318
Ion Ratio Lower Upper
83 100
85 61.2 48.9 73.3





#31

Cyclohexane

Concen: 6.265 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

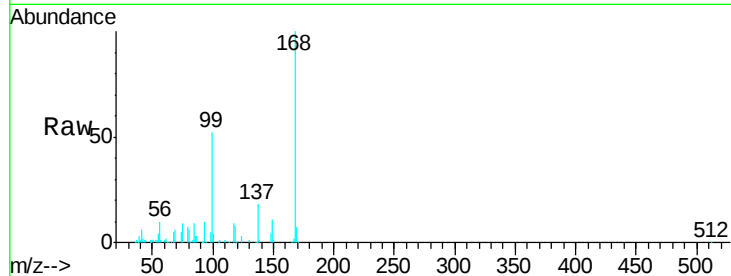
Tgt Ion: 56 Resp: 18430

Ion Ratio Lower Upper

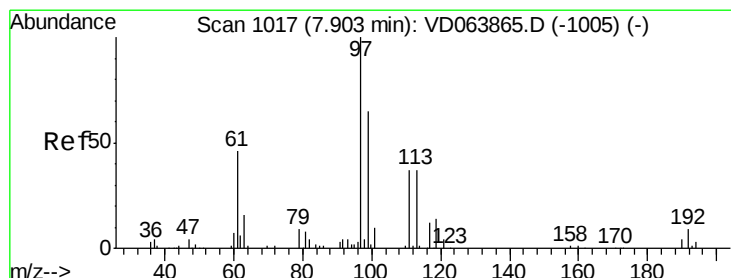
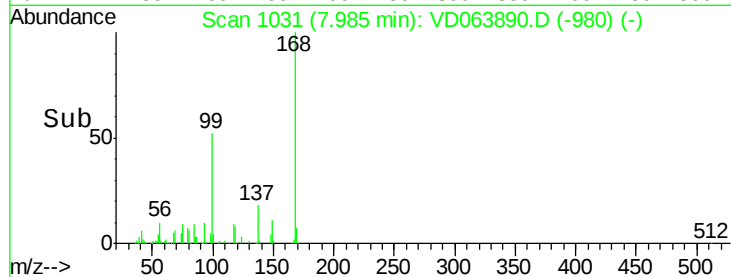
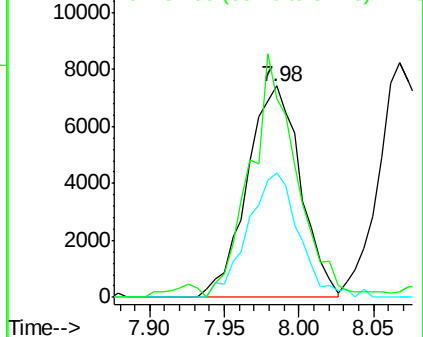
56 100

69 58.8 25.0 37.4#

84 88.4 76.3 114.5



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



#32

1,1,1-Trichloroethane

Concen: 5.296 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

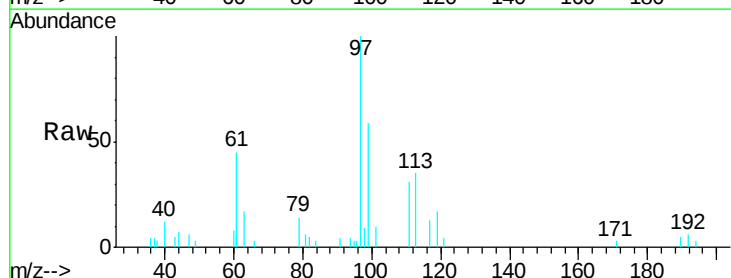
Tgt Ion: 97 Resp: 15480

Ion Ratio Lower Upper

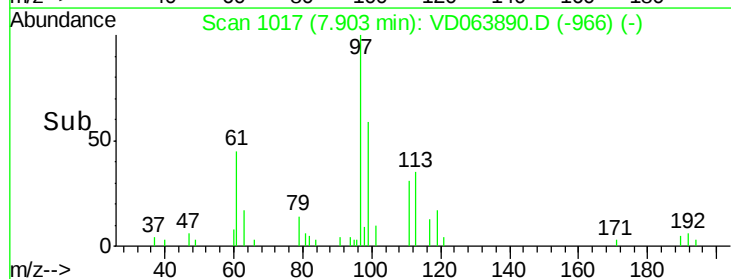
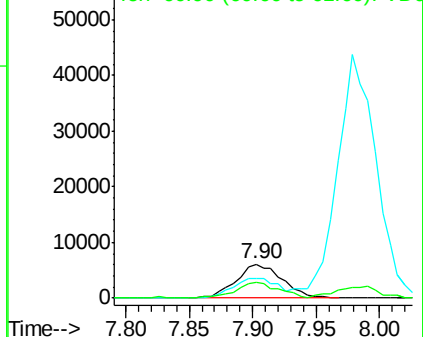
97 100

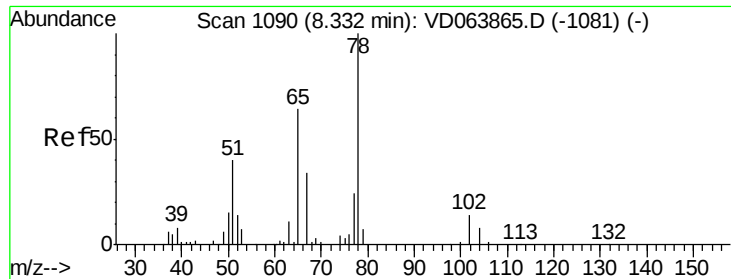
99 59.6 52.4 78.6

61 42.8 33.8 50.8



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

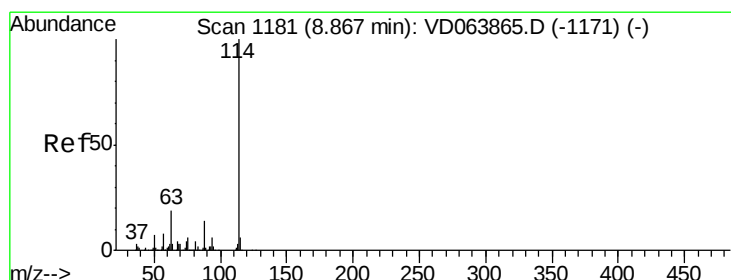
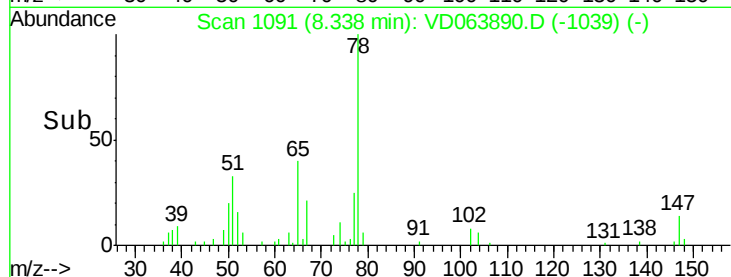
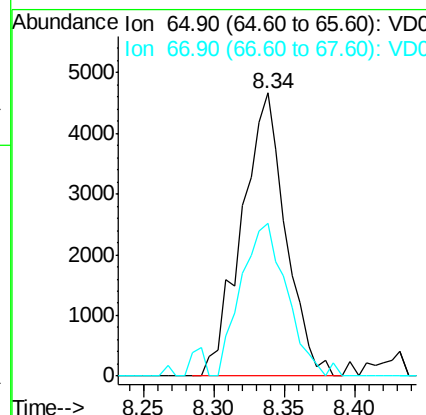
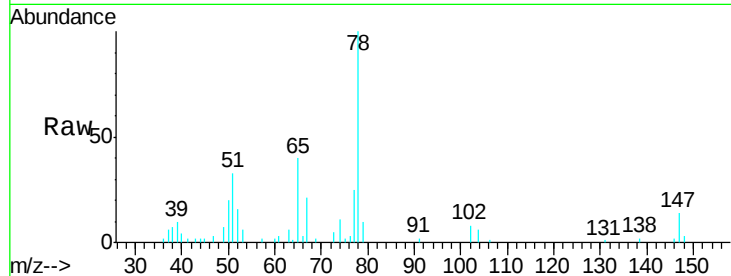




#33
 1,2-Dichloroethane-d4
 Concen: 5.839 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

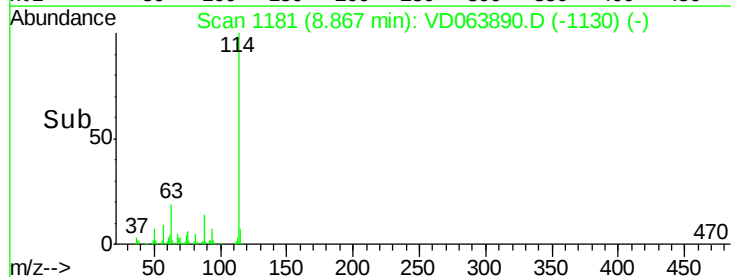
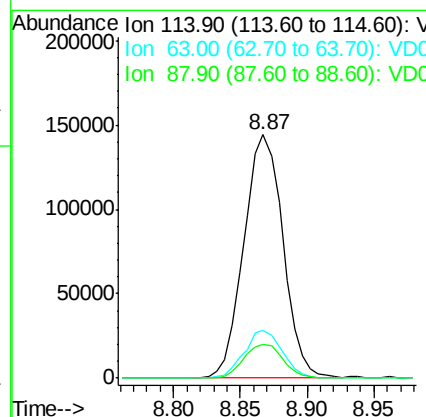
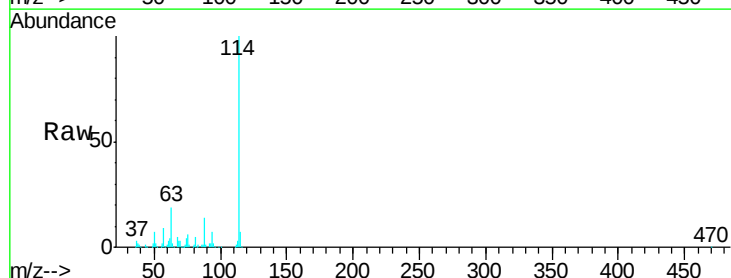
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

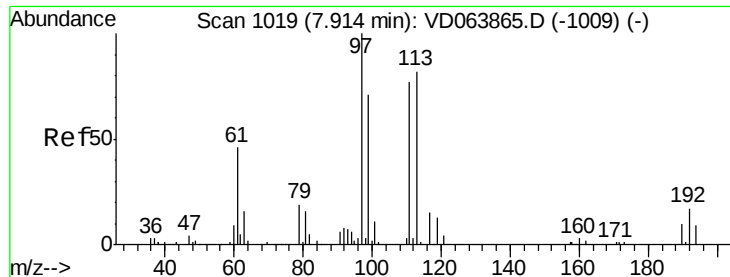
Tgt Ion: 65 Resp: 10175
 Ion Ratio Lower Upper
 65 100
 67 56.3 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 114 Resp: 292725
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.4
 88 13.9 0.0 27.4

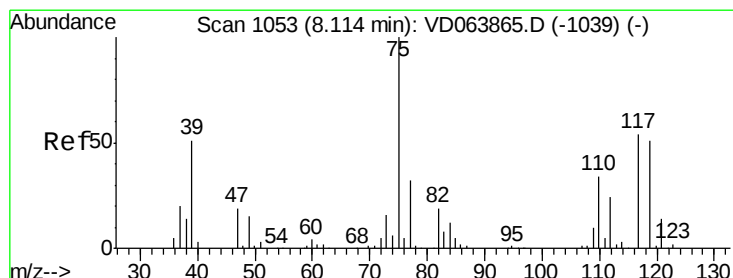
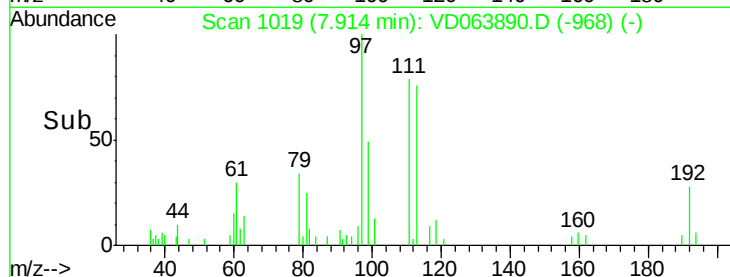
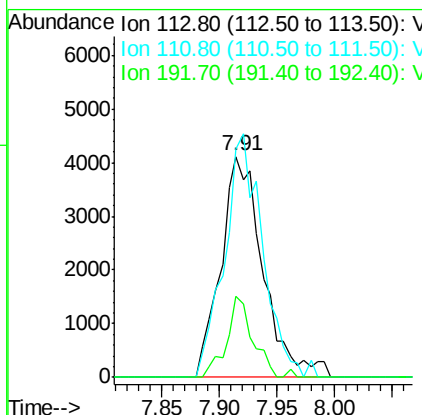
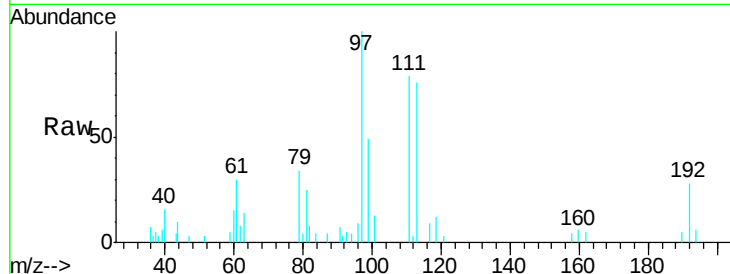




#35
 Dibromofluoromethane
 Concen: 5.853 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

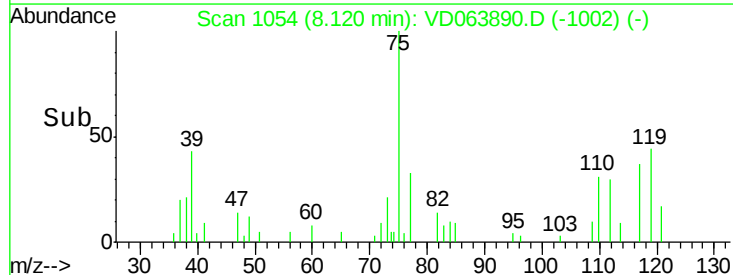
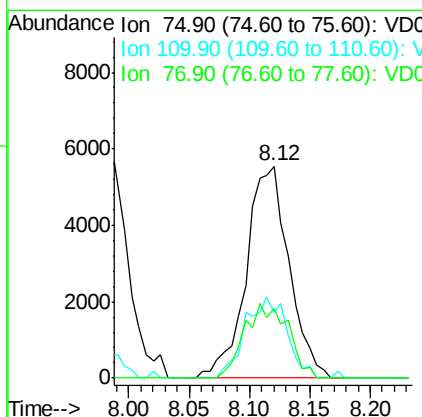
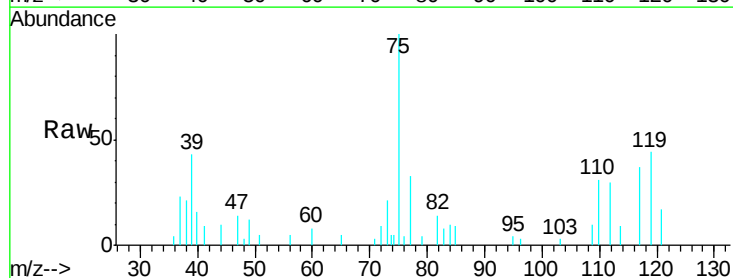
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

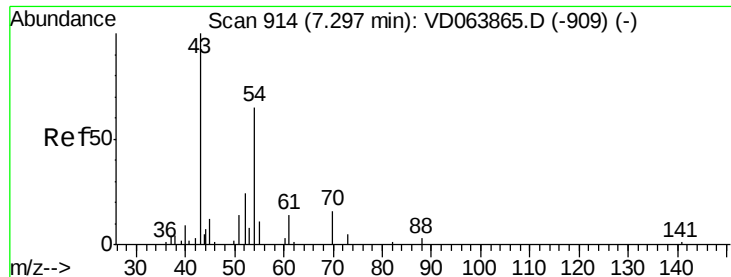
Tgt Ion: 113 Resp: 10471
 Ion Ratio Lower Upper
 113 100
 111 98.7 82.6 123.8
 192 22.2 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 5.109 ug/l
 RT: 8.12 min Scan# 1054
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 75 Resp: 13673
 Ion Ratio Lower Upper
 75 100
 110 37.0 17.4 52.3
 77 35.6 25.4 38.0

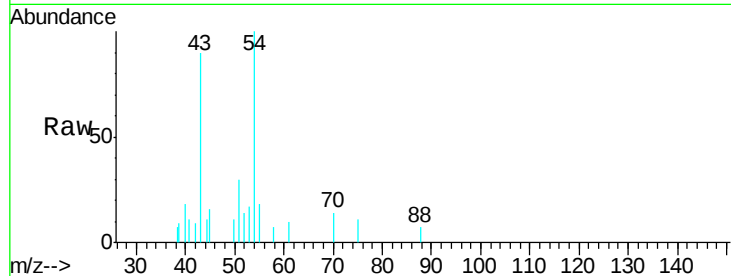




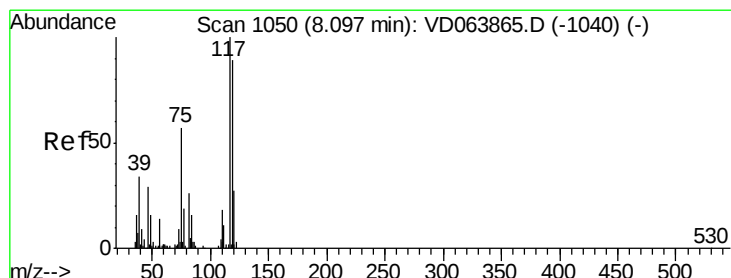
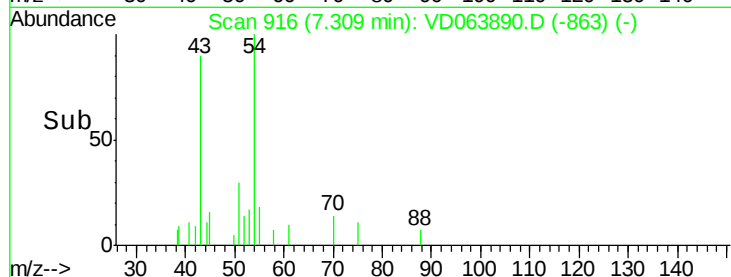
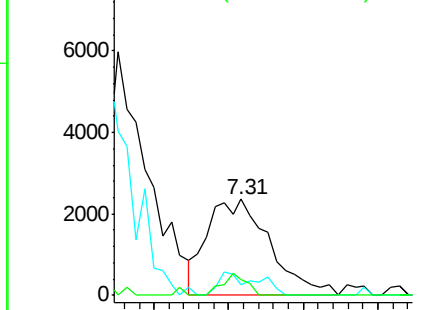
#37
 Ethyl Acetate
 Concen: 5.640 ug/l
 RT: 7.31 min Scan# 916
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tgt Ion: 43 Resp: 6850
 Ion Ratio Lower Upper
 43 100
 61 11.5 11.5 17.3#
 70 8.8 8.2 12.4

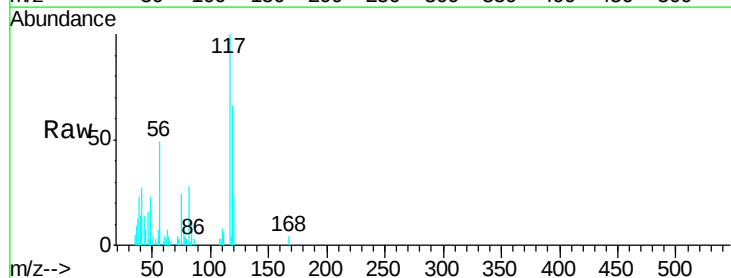


Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC

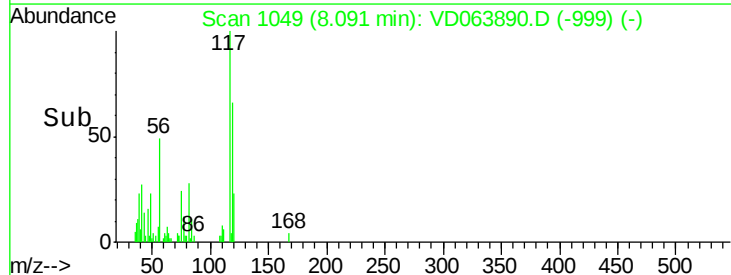
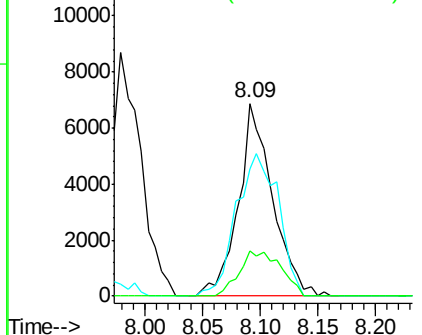


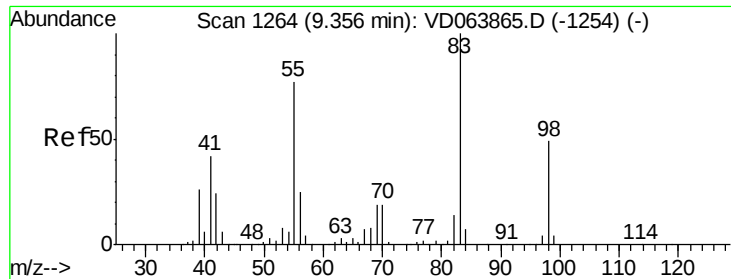
#38
 Carbon Tetrachloride
 Concen: 5.252 ug/l
 RT: 8.09 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 117 Resp: 14206
 Ion Ratio Lower Upper
 117 100
 119 66.0 70.8 106.2#
 121 23.5 21.4 32.0



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

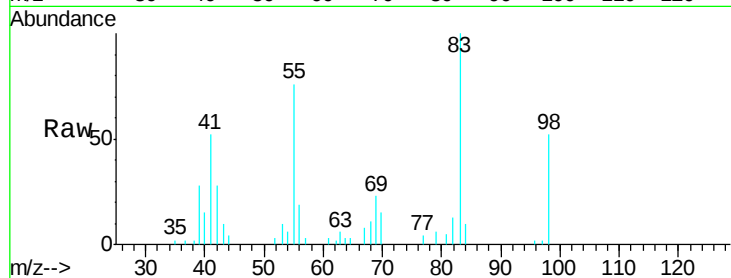




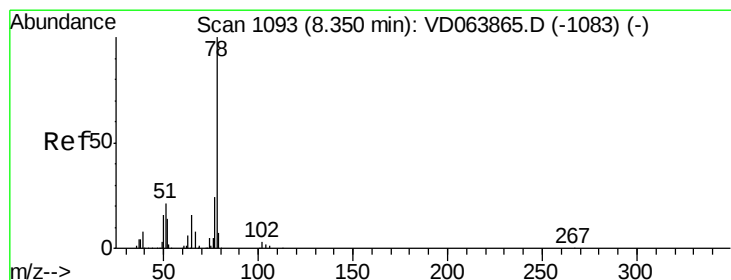
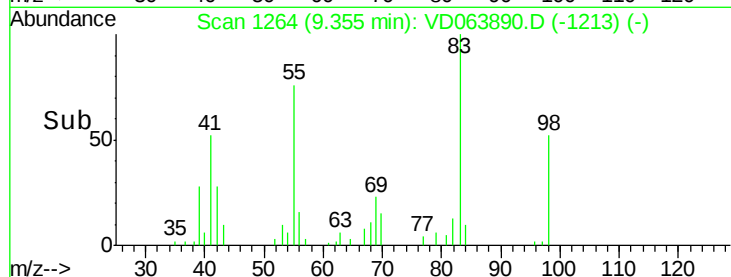
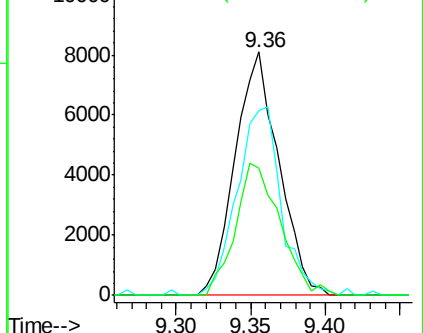
#39
Methylcyclohexane
Concen: 5.005 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tgt Ion: 83 Resp: 16470
Ion Ratio Lower Upper
83 100
55 76.1 61.3 91.9
98 52.4 39.3 58.9

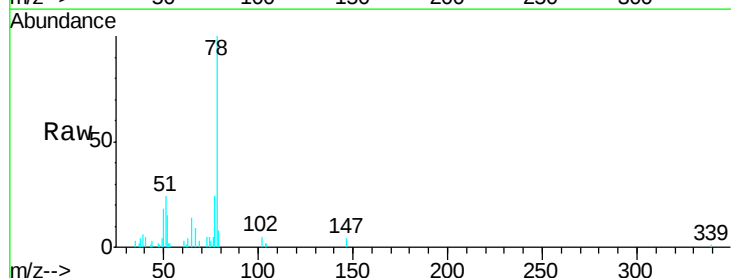


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

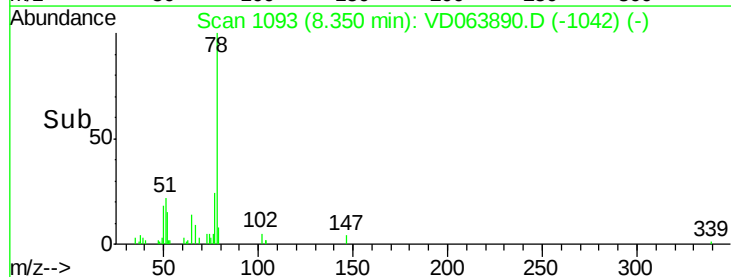
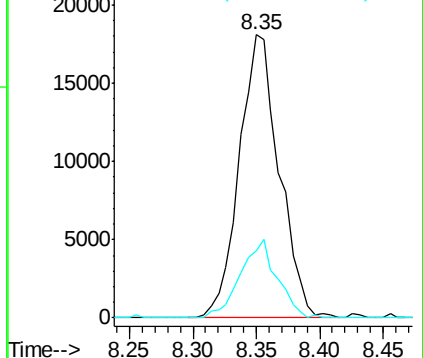


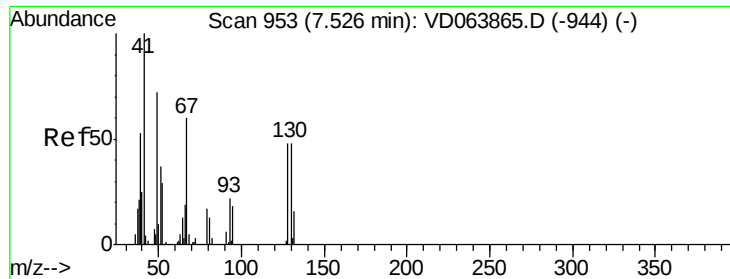
#40
Benzene
Concen: 5.160 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 78 Resp: 39578
Ion Ratio Lower Upper
78 100
77 23.6 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

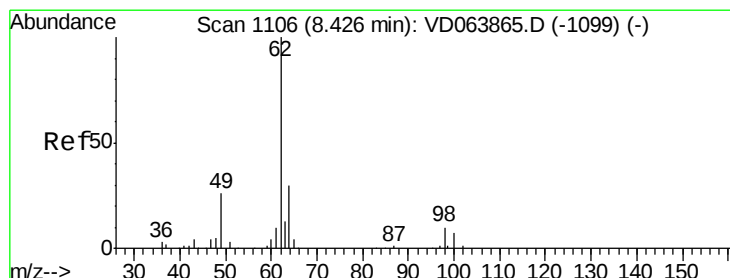
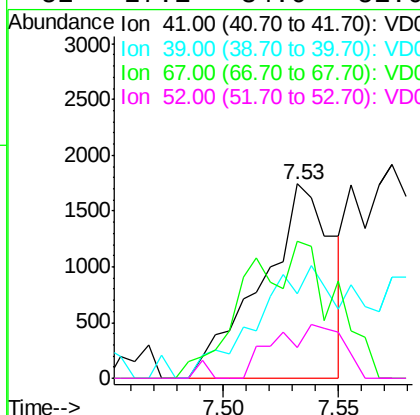
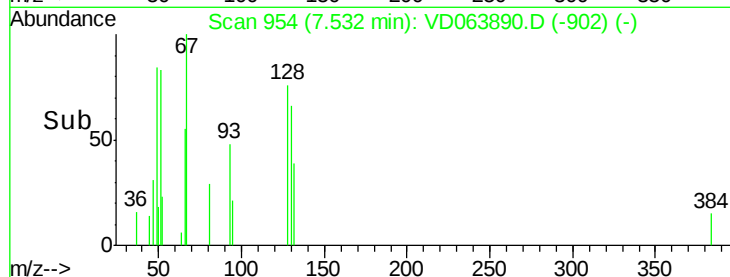
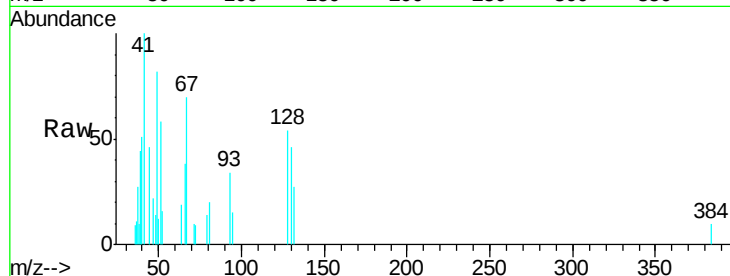




#41
Methacrylonitrile
Concen: 5.943 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

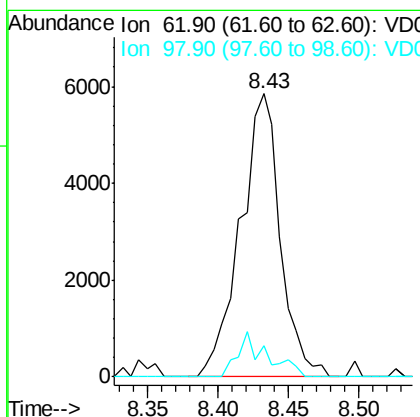
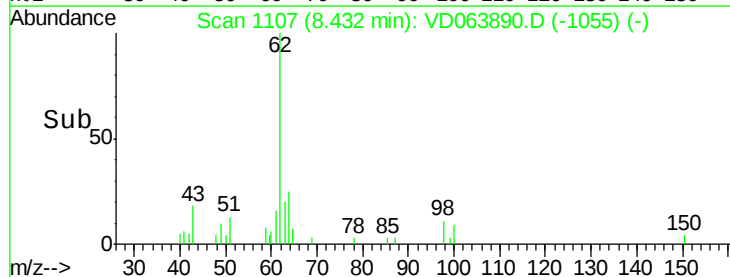
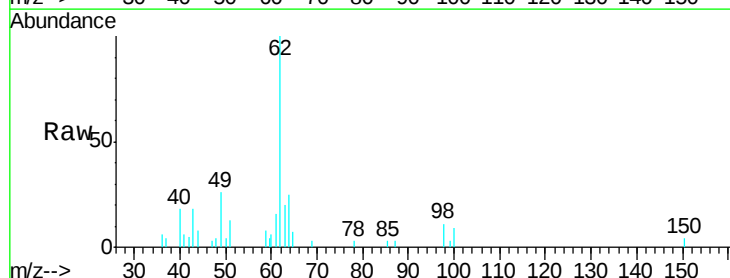
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

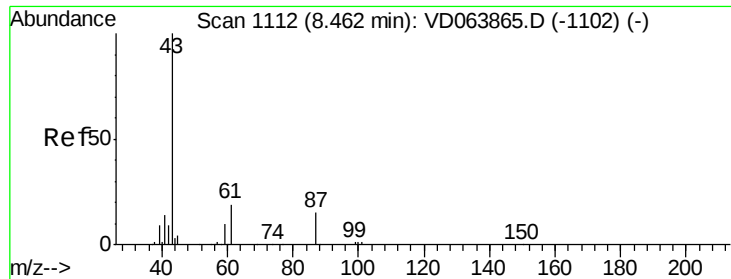
Tgt Ion: 41 Resp: 3688
Ion Ratio Lower Upper
41 100
39 81.5 52.6 78.8#
67 0.0 74.2 111.2#
52 27.1 34.0 51.0#



#42
1,2-Dichloroethane
Concen: 5.207 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 62 Resp: 11552
Ion Ratio Lower Upper
62 100
98 11.6 0.0 20.0





#43

Isopropyl Acetate

Concen: 5.347 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

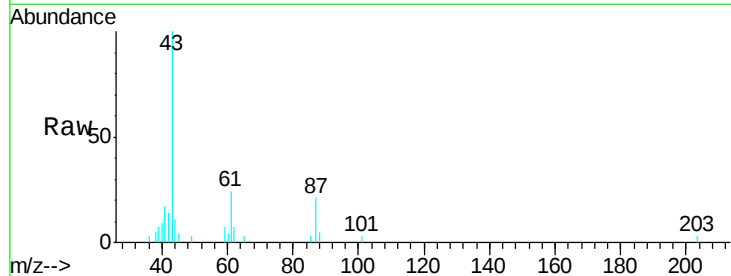
Tgt Ion: 43 Resp: 12002

Ion Ratio Lower Upper

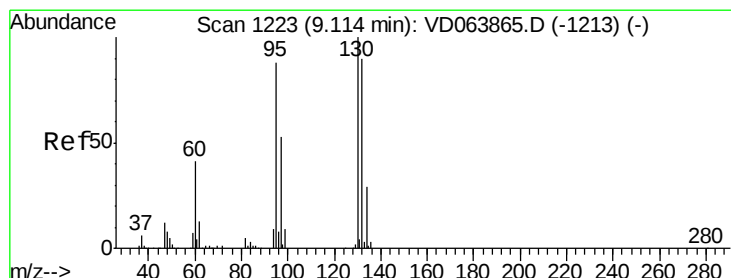
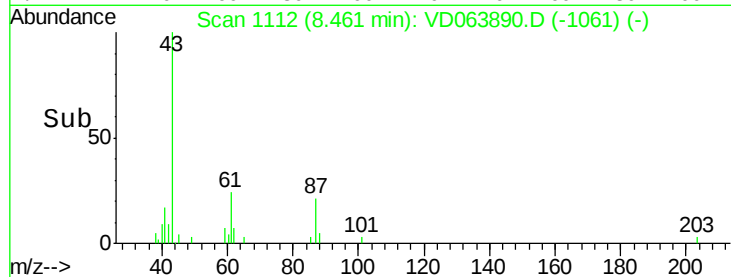
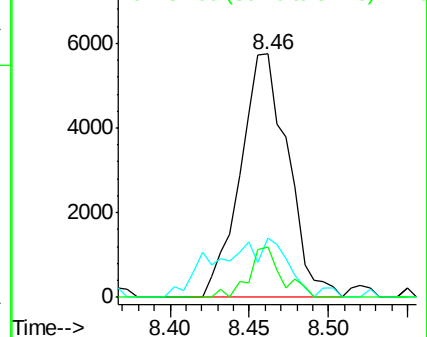
43 100

61 2.4 25.7 38.5#

87 14.0 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 61.00 (60.70 to 61.70): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 5.376 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063890.D

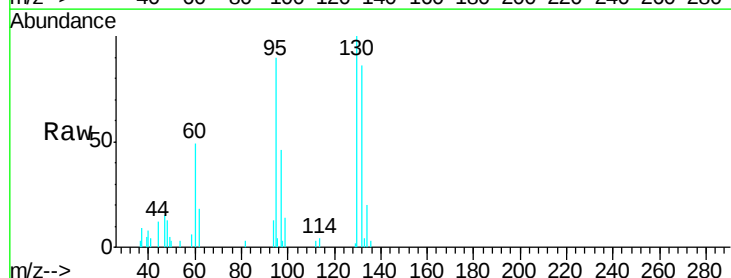
Acq: 04 Oct 2019 17:39

Tgt Ion: 130 Resp: 11890

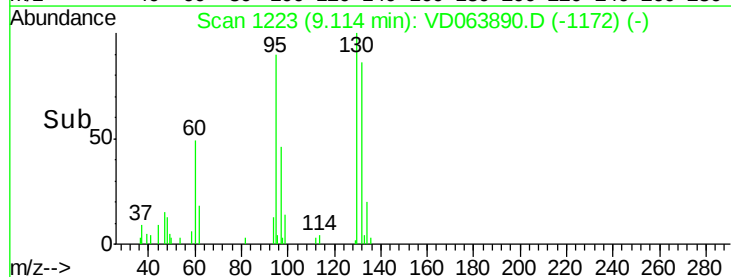
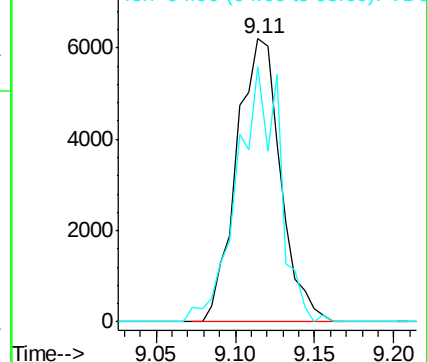
Ion Ratio Lower Upper

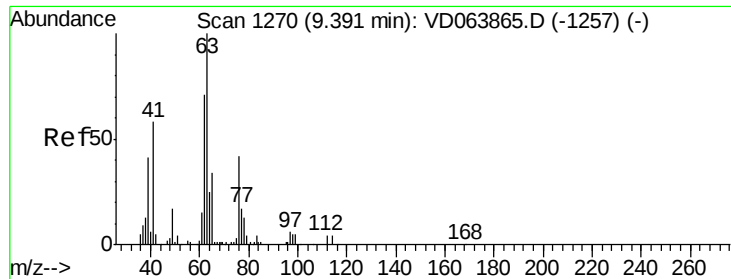
130 100

95 90.0 0.0 175.6



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





#45

1,2-Dichloropropane

Concen: 5.232 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

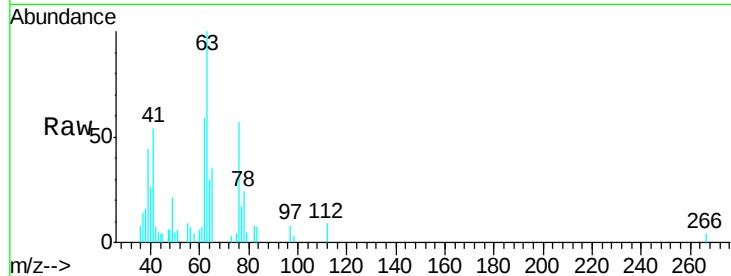
LOQ-SOIL-02-QT4-2019

Tgt Ion: 63 Resp: 9823

Ion Ratio Lower Upper

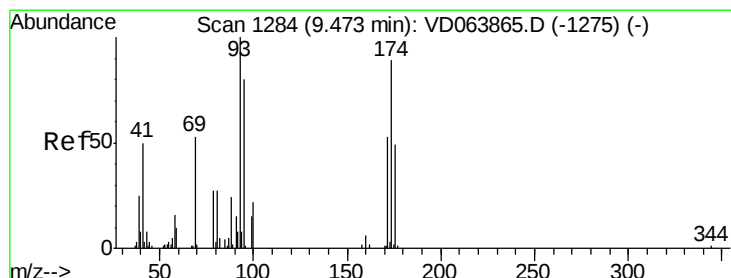
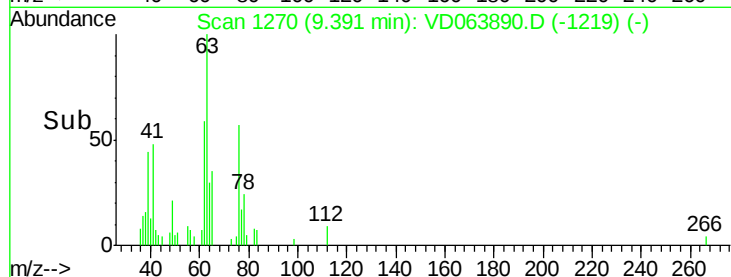
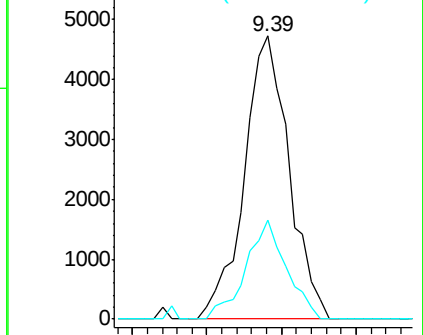
63 100

65 35.2 27.3 40.9



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 5.412 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

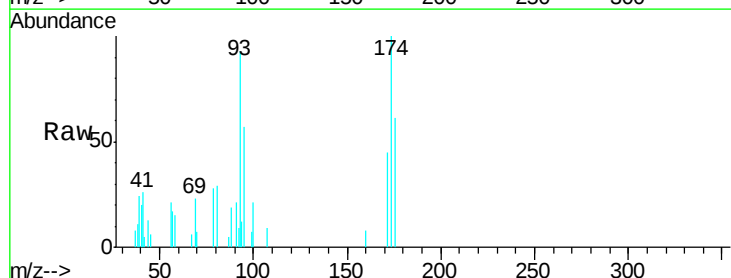
Tgt Ion: 93 Resp: 5786

Ion Ratio Lower Upper

93 100

95 71.2 66.0 99.0

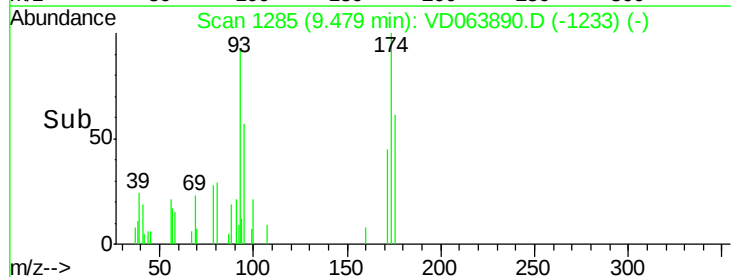
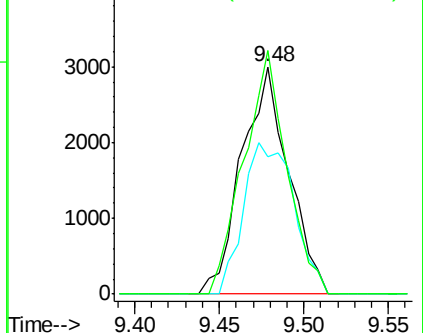
174 98.5 83.4 125.0

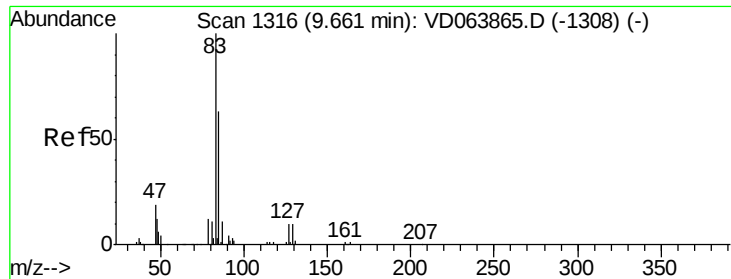


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): VDC





#47

Bromodichloromethane

Concen: 4.880 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

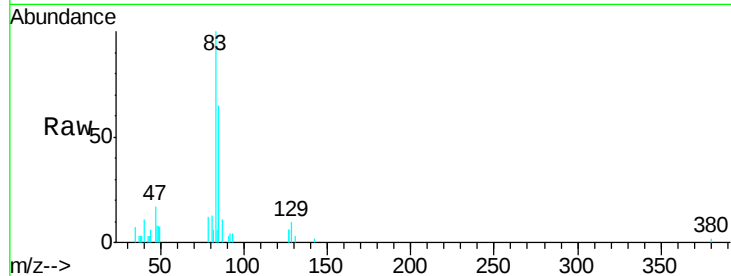
Tgt Ion: 83 Resp: 13432

Ion Ratio Lower Upper

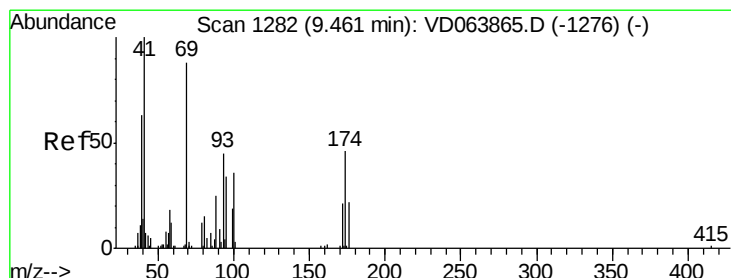
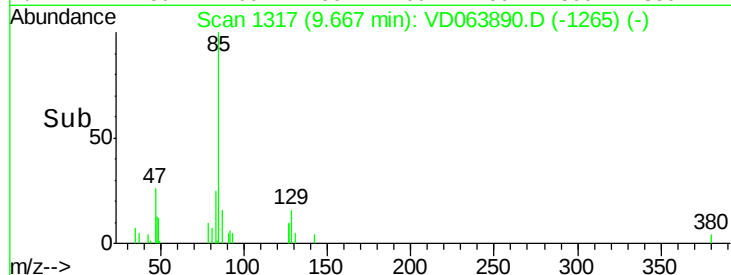
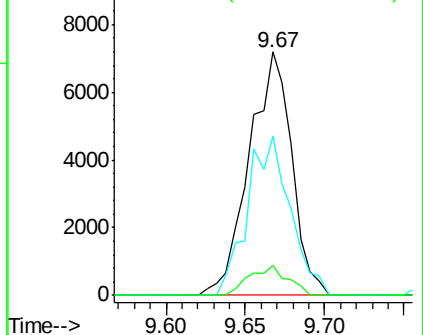
83 100

85 65.2 50.2 75.2

127 12.4 7.6 11.4#



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



#48

Methyl methacrylate

Concen: 4.233 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

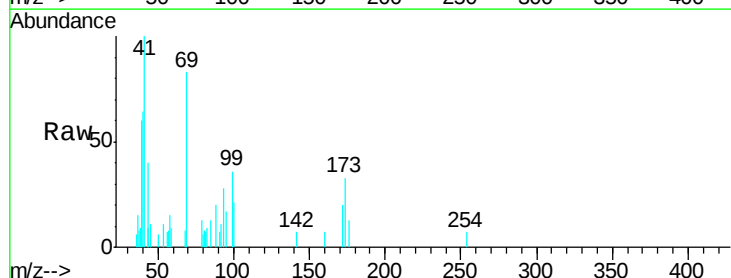
Tgt Ion: 41 Resp: 4552

Ion Ratio Lower Upper

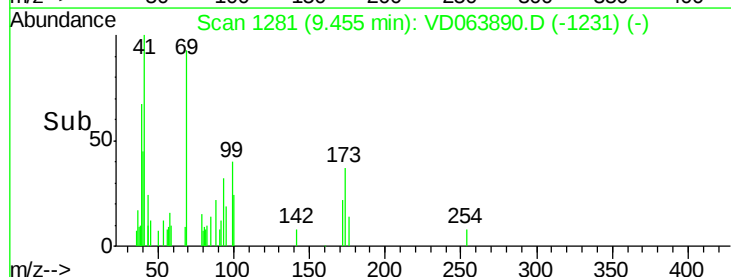
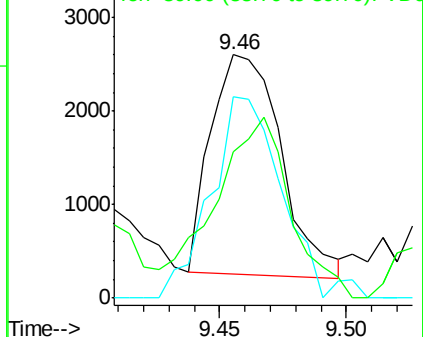
41 100

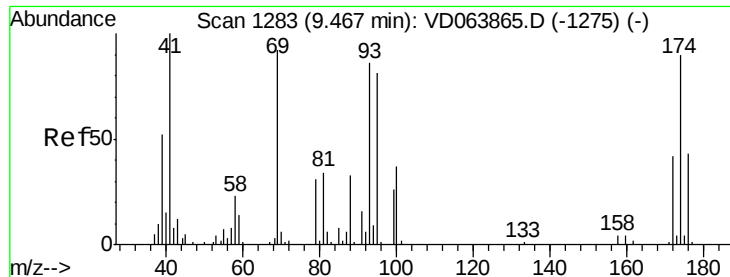
69 92.7 75.1 112.7

39 88.8 50.2 75.2#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

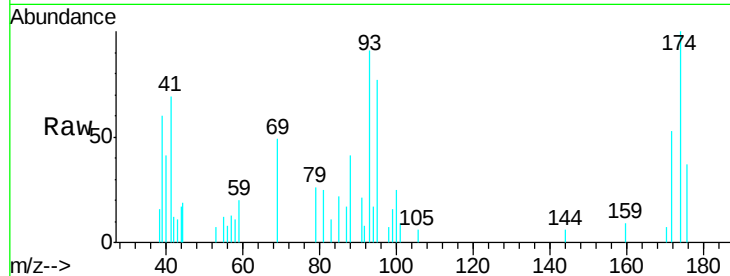




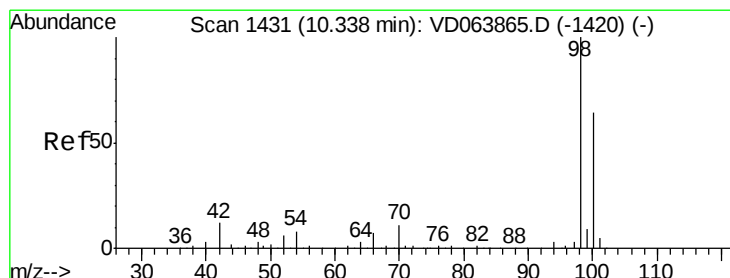
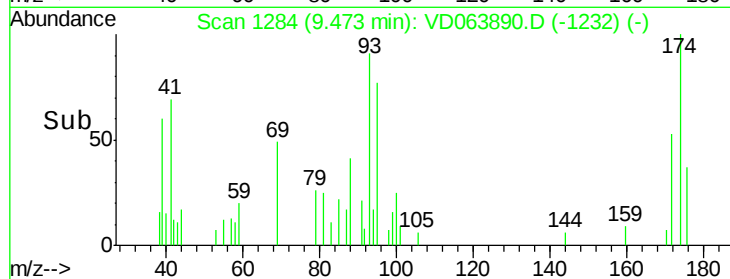
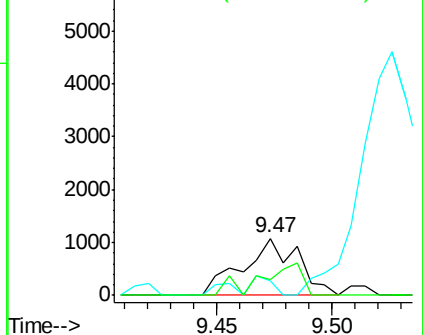
#49
1,4-Dioxane
Concen: 122.173 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tgt Ion: 88 Resp: 1783
Ion Ratio Lower Upper
88 100
43 0.0 27.6 41.4#
58 34.8 54.1 81.1#

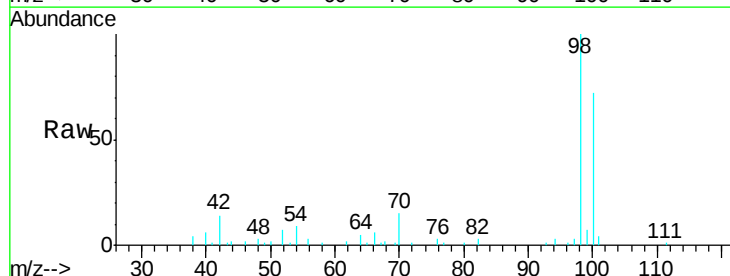


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

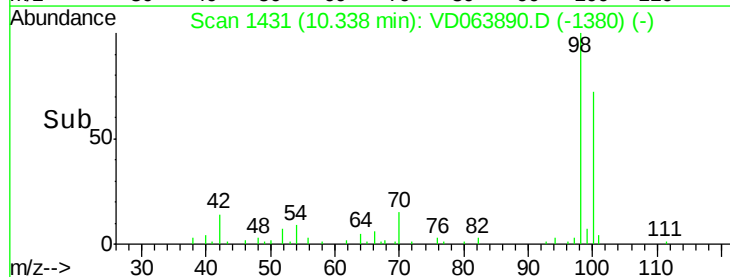
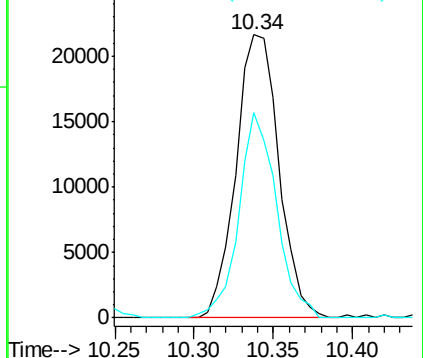


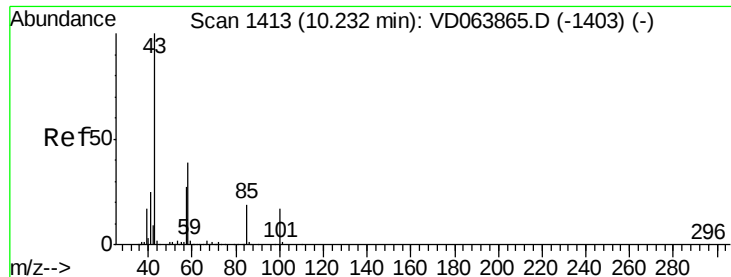
#50
Toluene-d8
Concen: 5.611 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 98 Resp: 40741
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 25.839 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

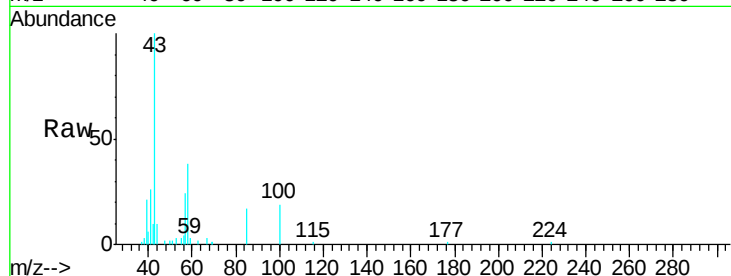
LOQ-SOIL-02-QT4-2019

Tgt Ion: 43 Resp: 30079

Ion Ratio Lower Upper

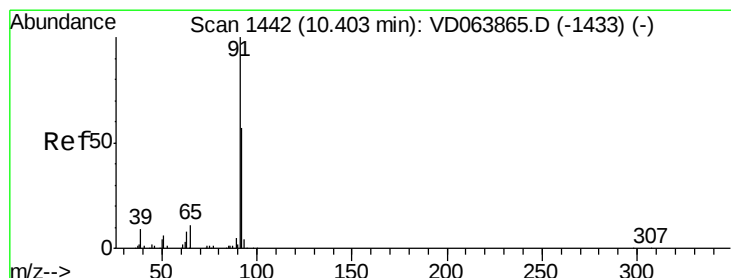
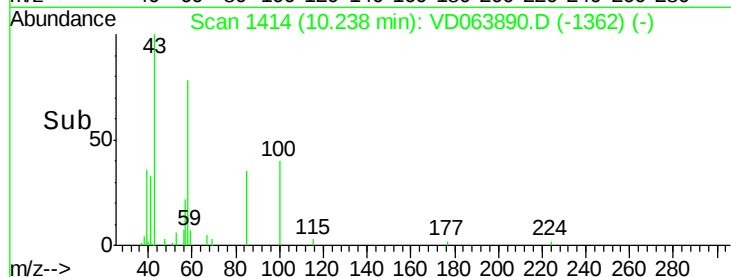
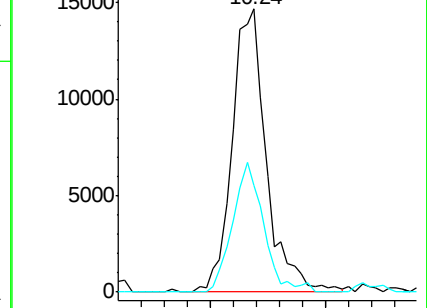
43 100

58 41.7 33.0 49.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 4.789 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD063890.D

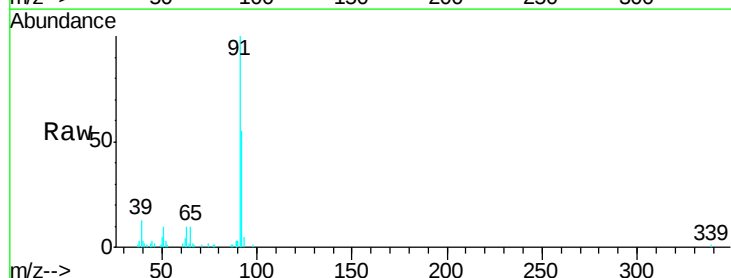
Acq: 04 Oct 2019 17:39

Tgt Ion: 92 Resp: 25217

Ion Ratio Lower Upper

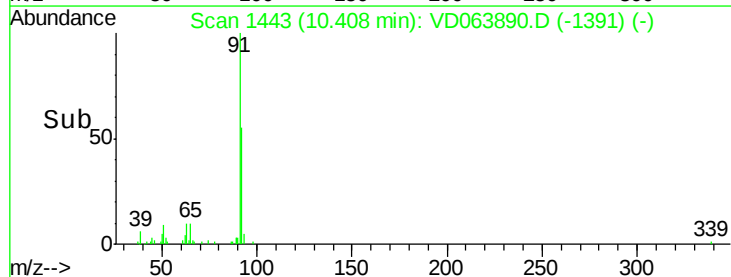
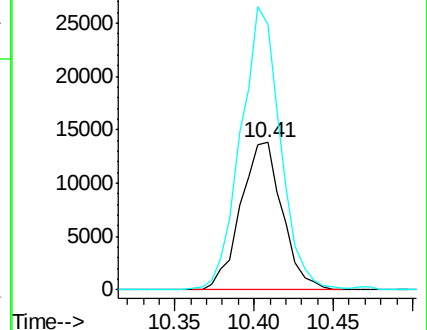
92 100

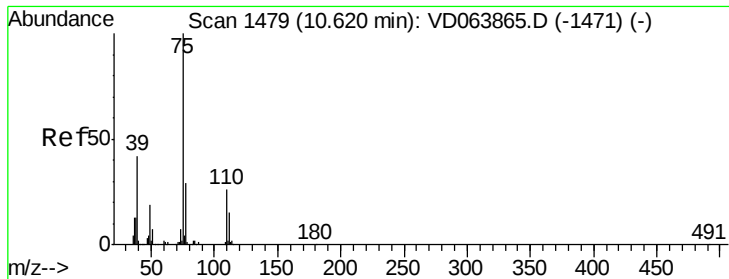
91 182.8 139.5 209.3



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: 4.455 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

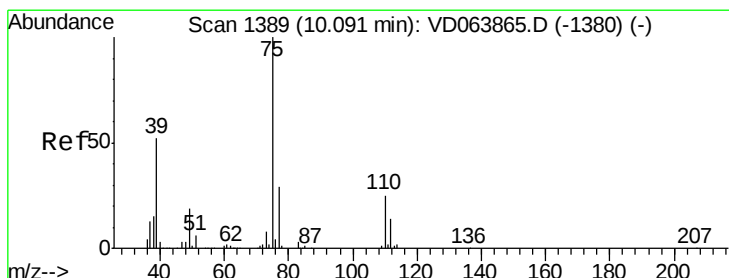
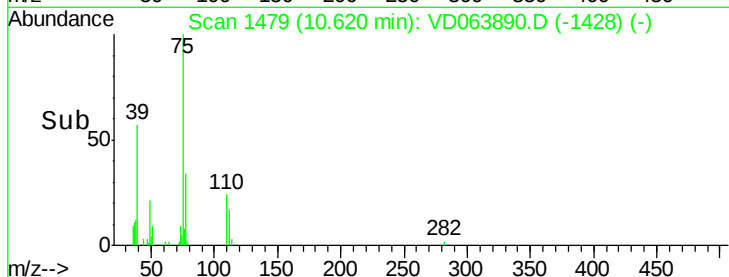
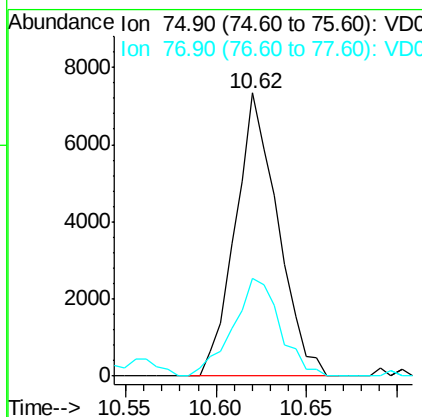
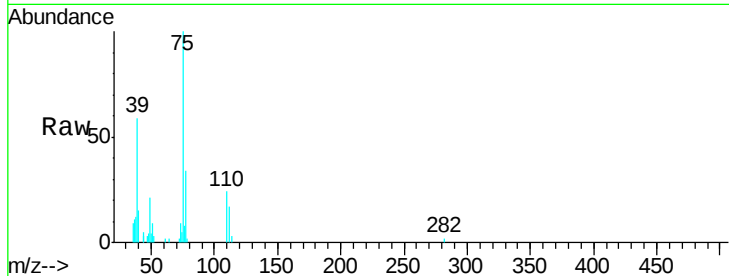
LOQ-SOIL-02-QT4-2019

Tgt Ion: 75 Resp: 11966

Ion Ratio Lower Upper

75 100

77 34.5 22.8 34.2#



#54

cis-1,3-Dichloropropene

Concen: 4.860 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

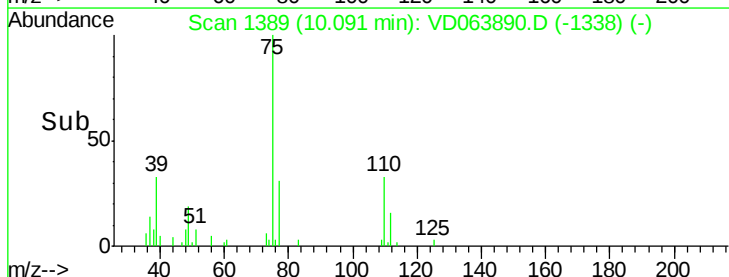
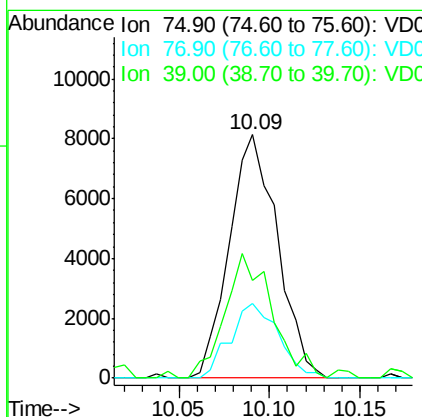
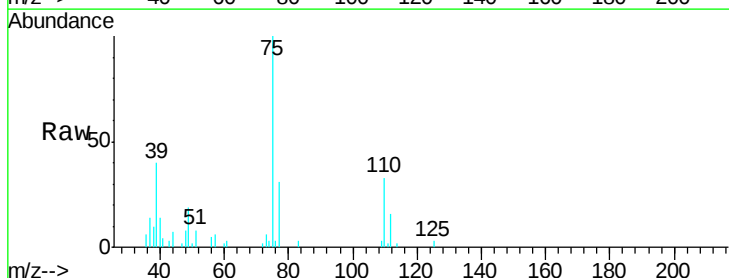
Tgt Ion: 75 Resp: 15028

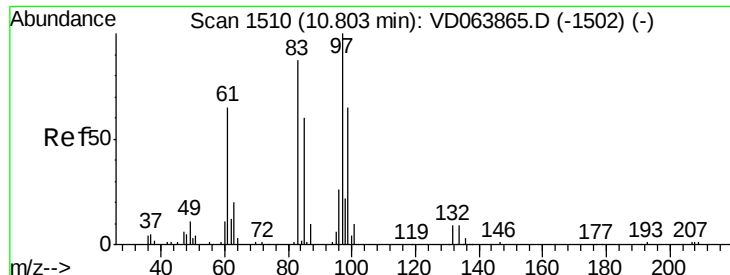
Ion Ratio Lower Upper

75 100

77 30.6 23.2 34.8

39 40.1 41.5 62.3#

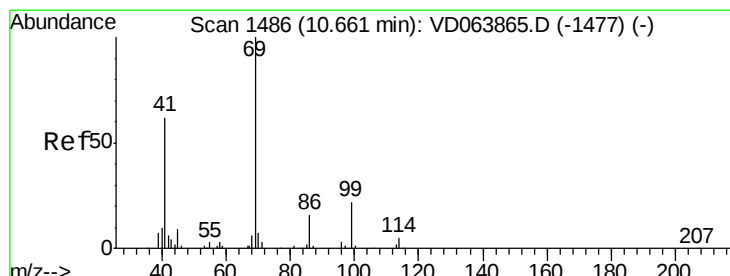
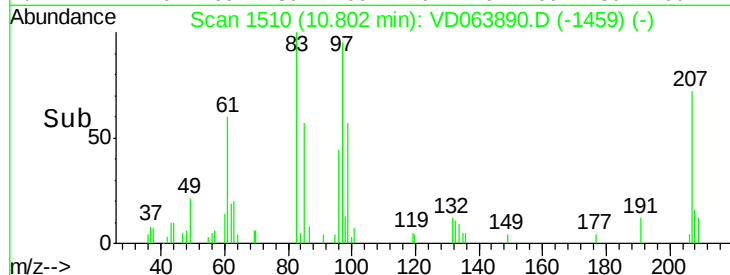
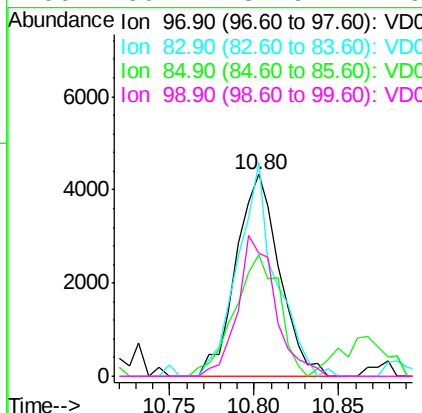
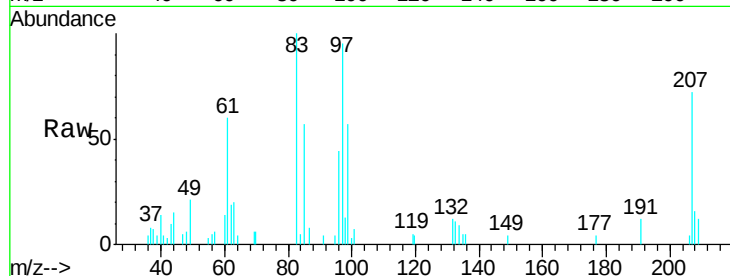




#55
 1,1,2-Trichloroethane
 Concen: 5.115 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

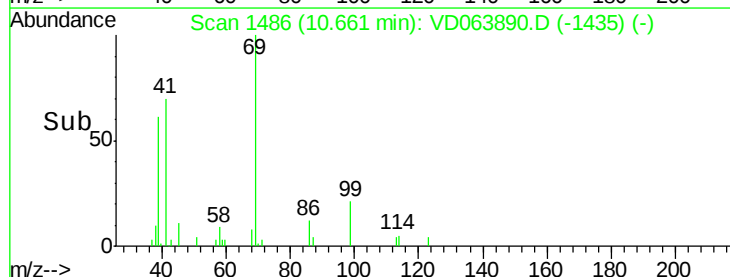
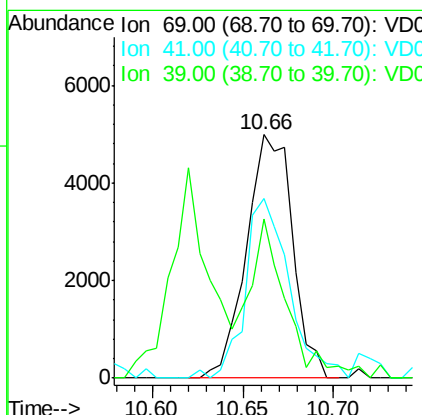
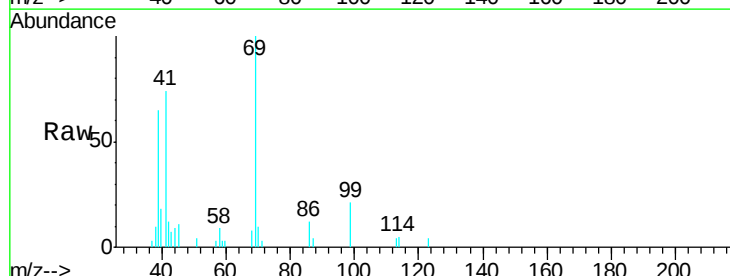
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

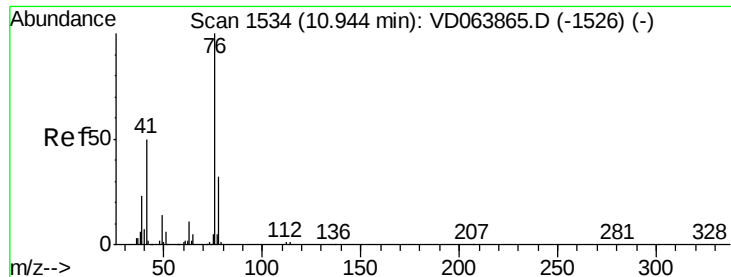
Tgt Ion: 97 Resp: 7721
 Ion Ratio Lower Upper
 97 100
 83 105.7 69.7 104.5#
 85 60.4 48.1 72.1
 99 60.7 51.9 77.9



#56
 Ethyl methacrylate
 Concen: 4.601 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 69 Resp: 8795
 Ion Ratio Lower Upper
 69 100
 41 70.6 51.3 76.9
 39 54.3 28.0 42.0#

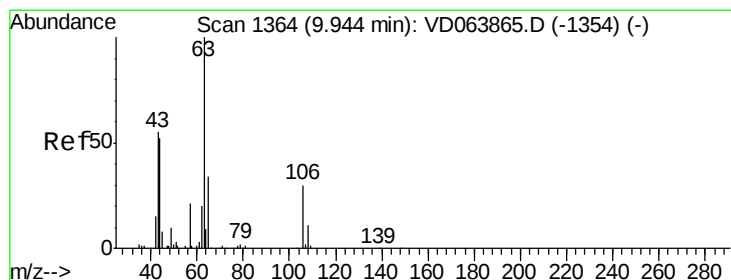
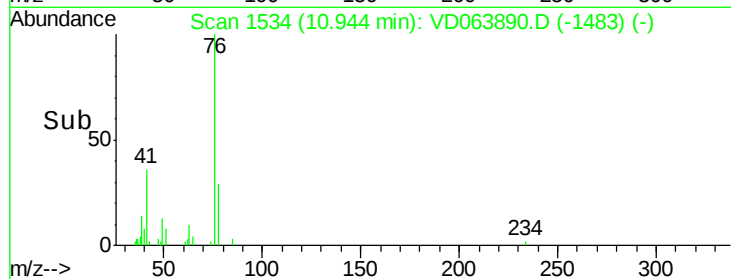
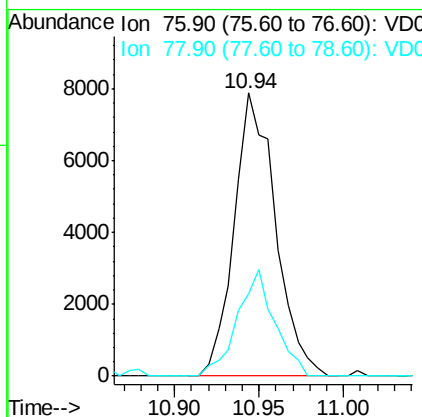
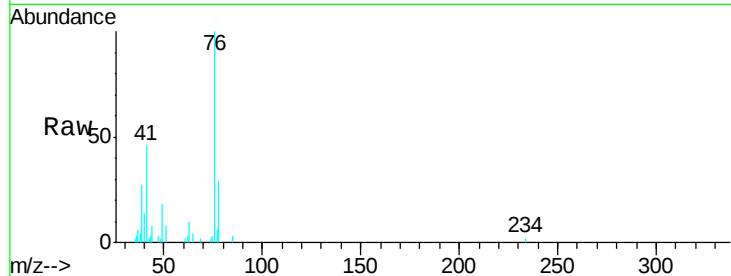




#57
 1,3-Dichloropropane
 Concen: 5.194 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

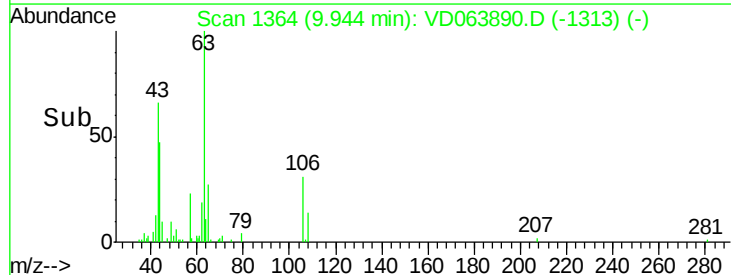
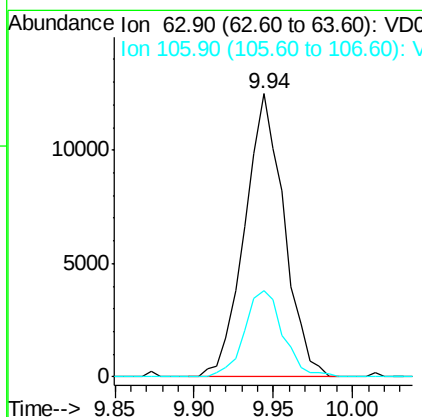
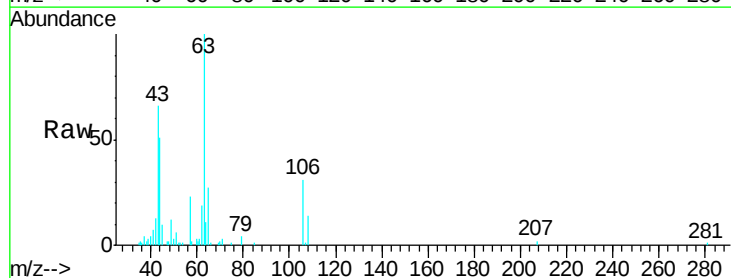
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

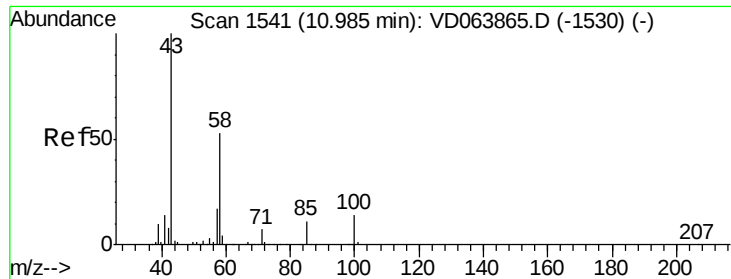
Tgt Ion: 76 Resp: 13415
 Ion Ratio Lower Upper
 76 100
 78 33.9 26.6 40.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 26.203 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 63 Resp: 21532
 Ion Ratio Lower Upper
 63 100
 106 29.9 24.3 36.5

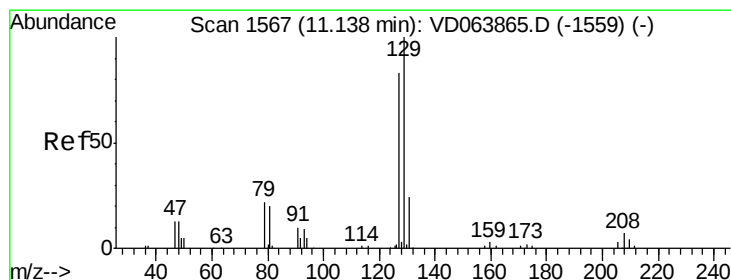
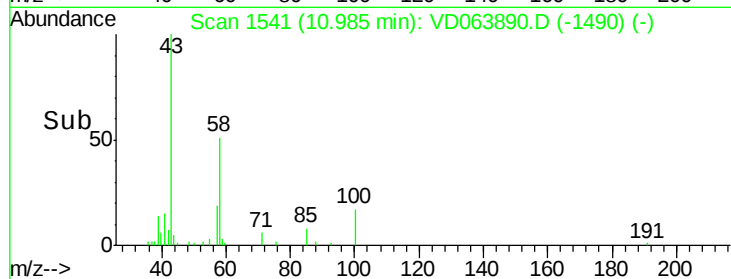
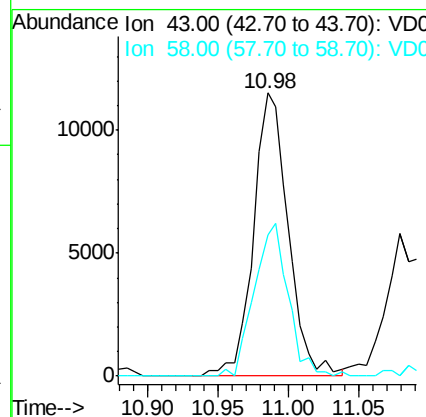
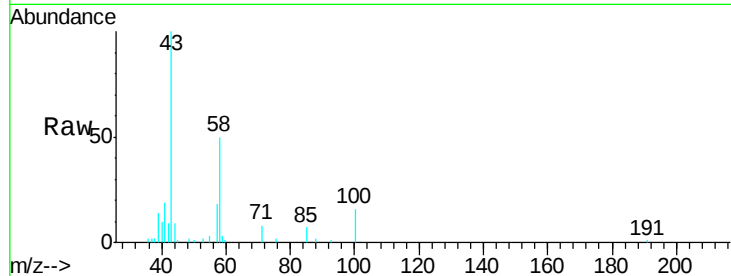




#59
2-Hexanone
Concen: 23.689 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

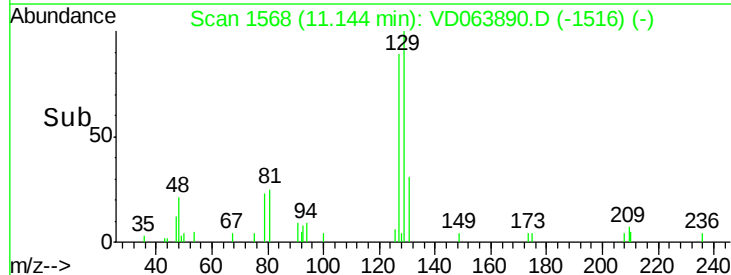
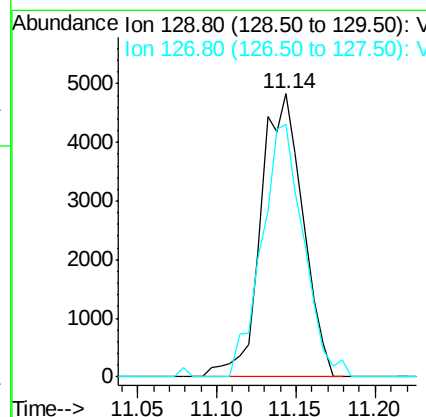
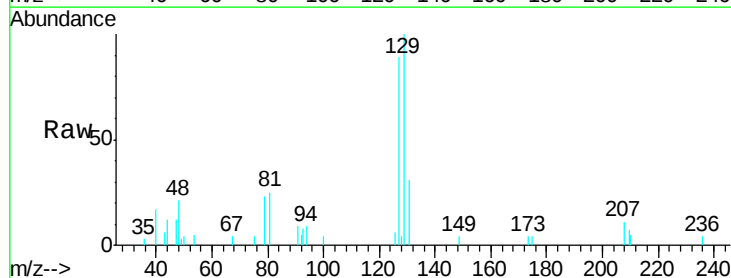
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

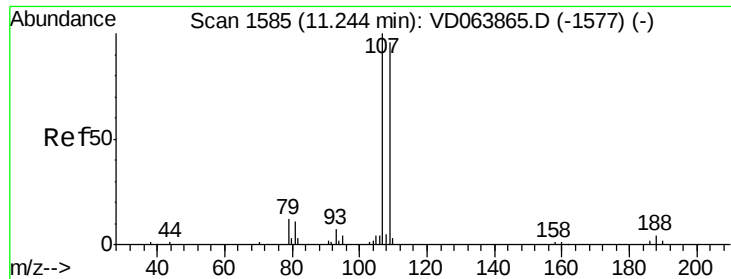
Tgt Ion: 43 Resp: 19948
Ion Ratio Lower Upper
43 100
58 52.8 27.7 83.0



#60
Dibromochloromethane
Concen: 4.526 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 129 Resp: 8895
Ion Ratio Lower Upper
129 100
127 89.1 39.9 119.6

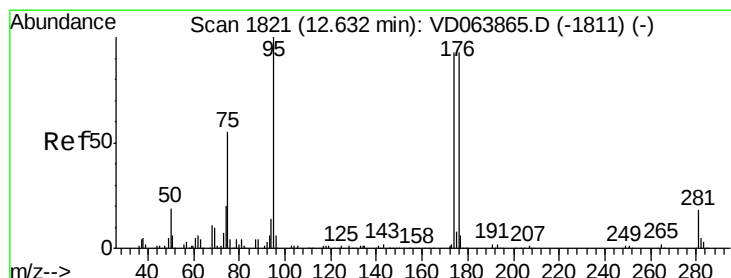
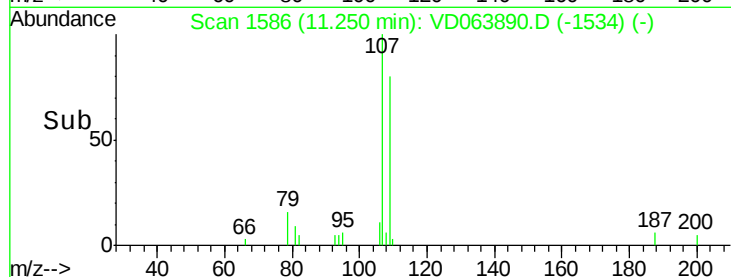
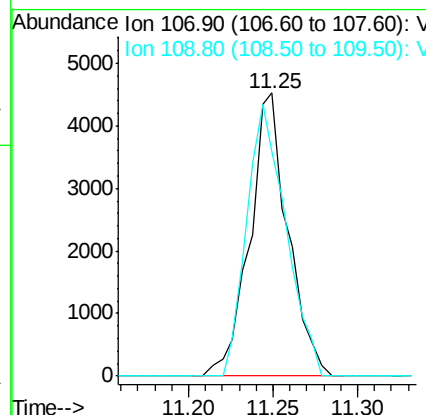
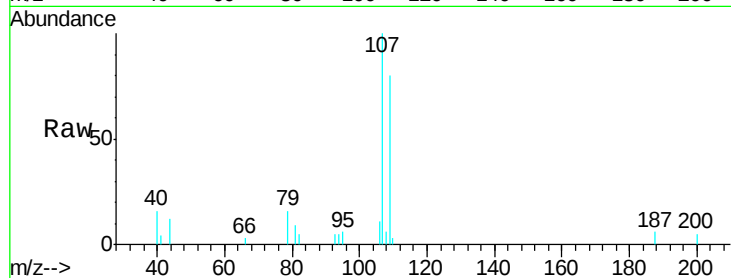




#61
 1,2-Dibromoethane
 Concen: 4.873 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

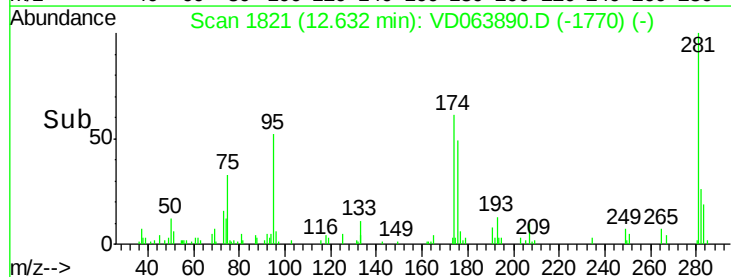
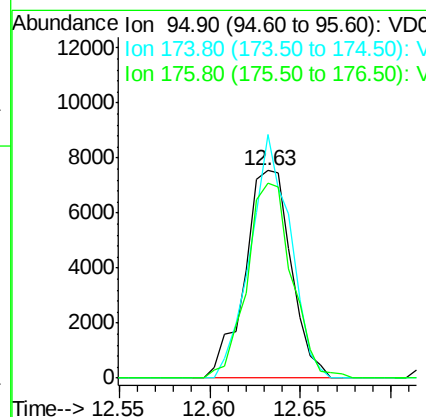
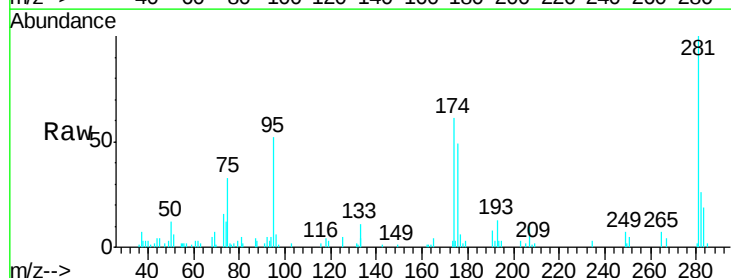
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

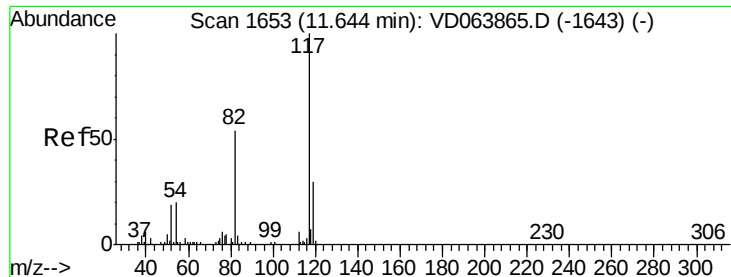
Tgt Ion: 107 Resp: 7131
 Ion Ratio Lower Upper
 107 100
 109 98.7 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 5.313 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion: 95 Resp: 13406
 Ion Ratio Lower Upper
 95 100
 174 100.5 0.0 186.4
 176 90.9 0.0 184.2

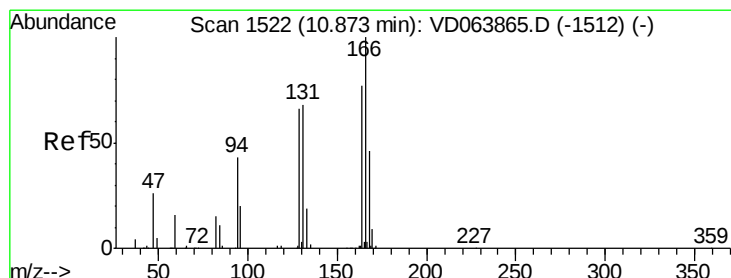
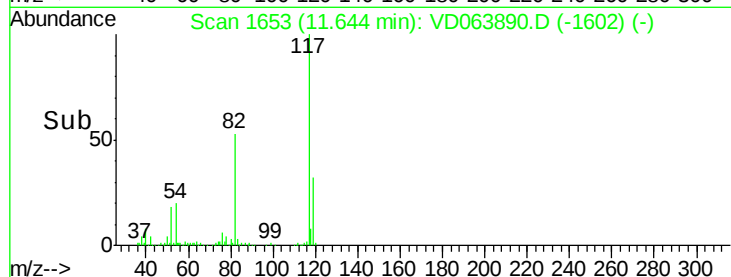
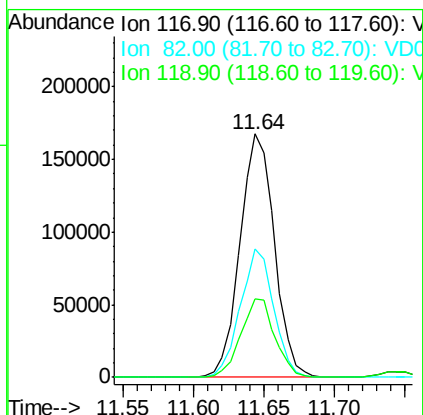
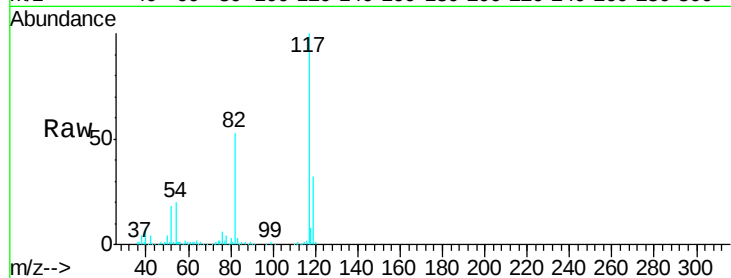




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

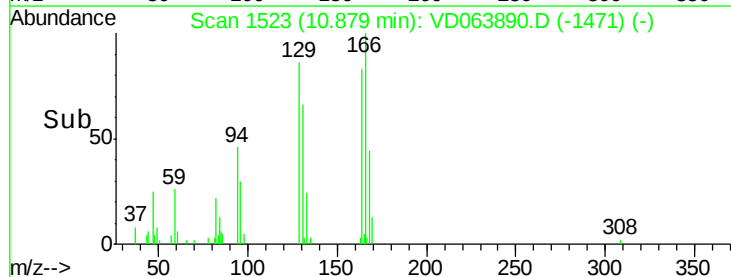
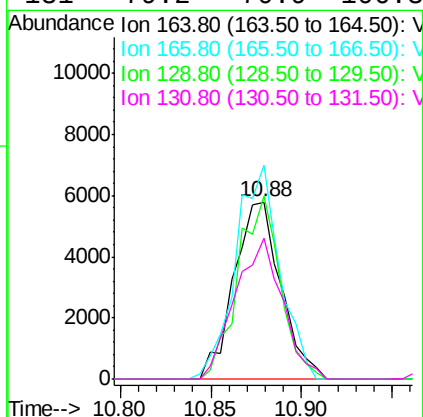
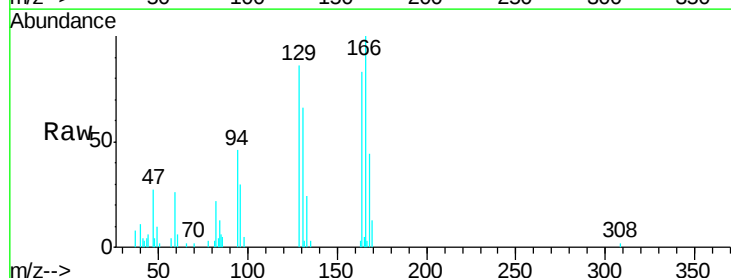
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

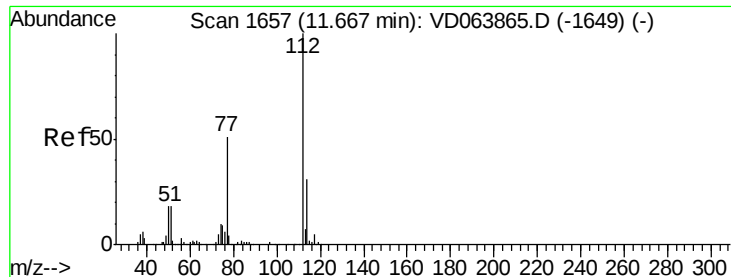
Tgt Ion:117 Resp: 286521
Ion Ratio Lower Upper
117 100
82 52.6 42.8 64.2
119 32.4 24.4 36.6



#64
Tetrachloroethene
Concen: 5.300 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:164 Resp: 10366
Ion Ratio Lower Upper
164 100
166 120.6 103.8 155.6
129 103.5 68.9 103.3#
131 79.2 70.9 106.3

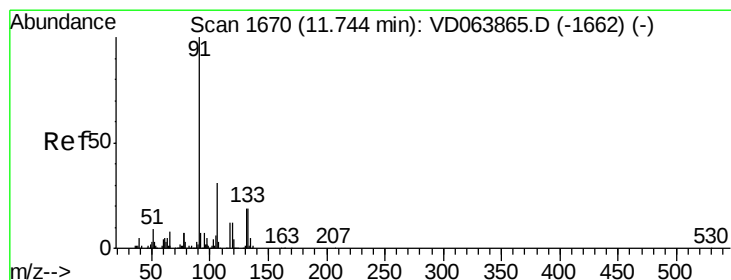
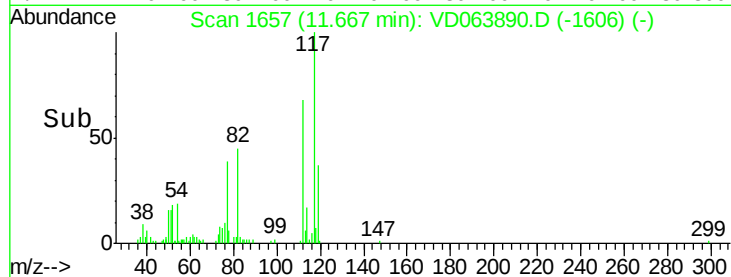
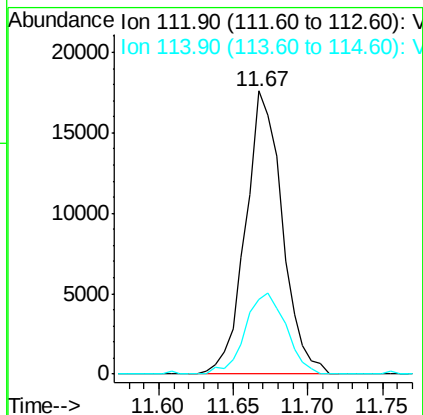
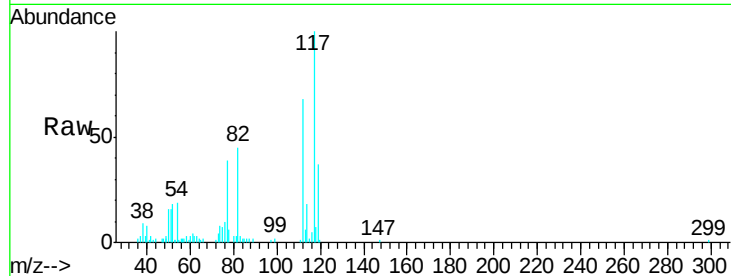




#65
Chlorobenzene
Concen: 5.183 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

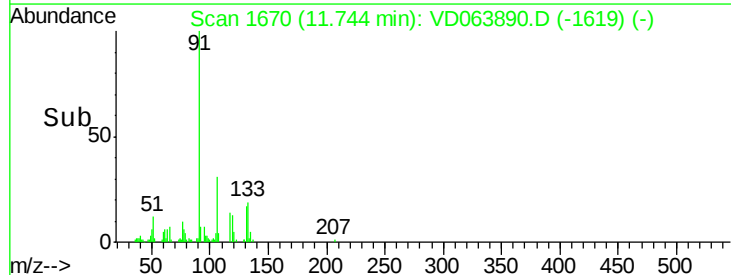
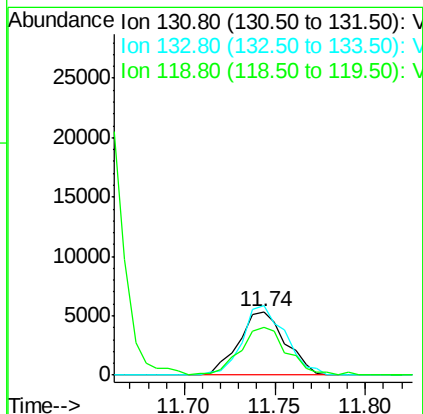
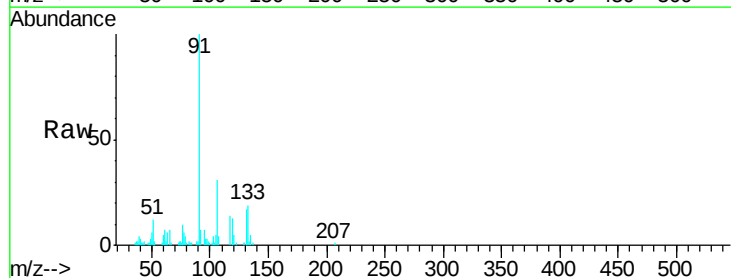
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

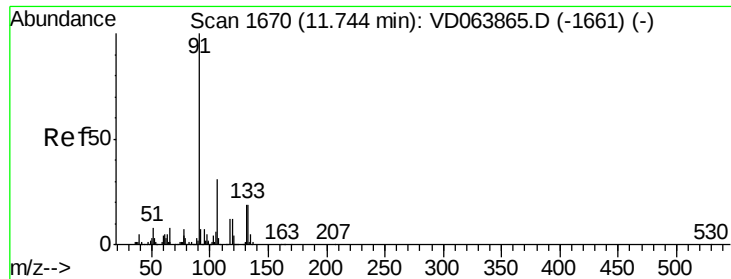
Tgt Ion:112 Resp: 29824
Ion Ratio Lower Upper
112 100
114 26.6 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 4.479 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:131 Resp: 9496
Ion Ratio Lower Upper
131 100
133 101.5 48.9 146.7
119 76.0 32.6 97.8





#67

Ethyl Benzene

Concen: 5.059 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

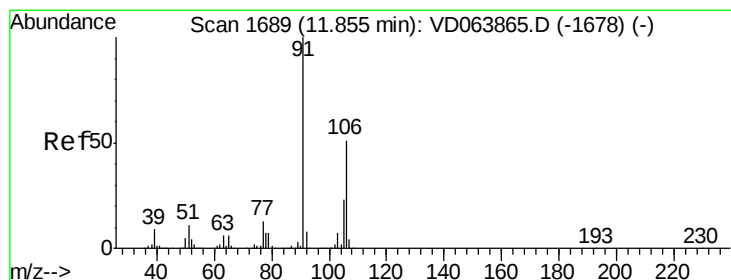
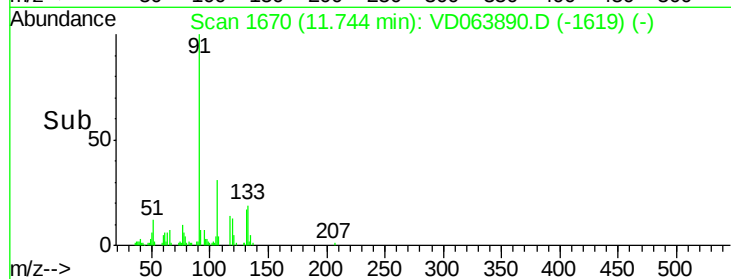
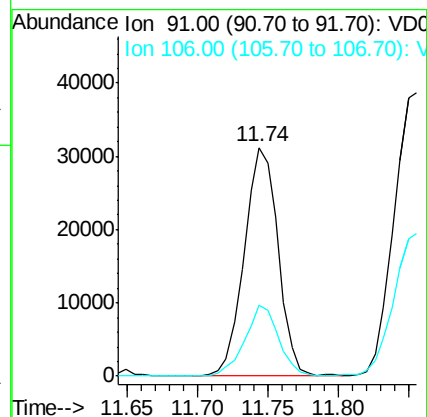
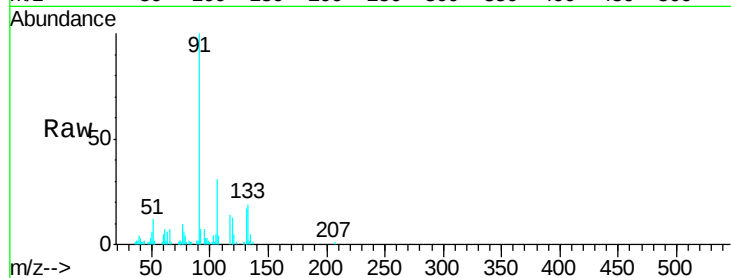
LOQ-SOIL-02-QT4-2019

Tgt Ion: 91 Resp: 52491

Ion Ratio Lower Upper

91 100

106 30.8 24.6 37.0



#68

m/p-Xylenes

Concen: 9.400 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063890.D

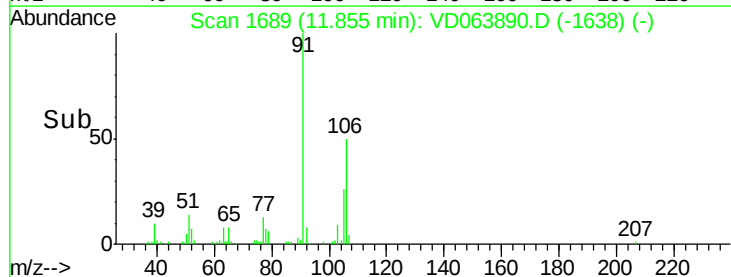
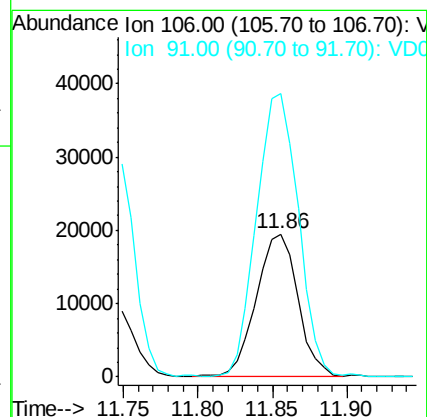
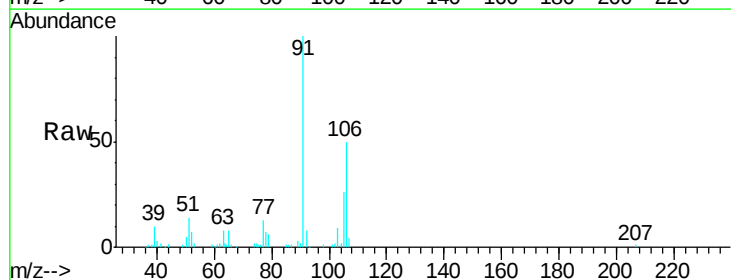
Acq: 04 Oct 2019 17:39

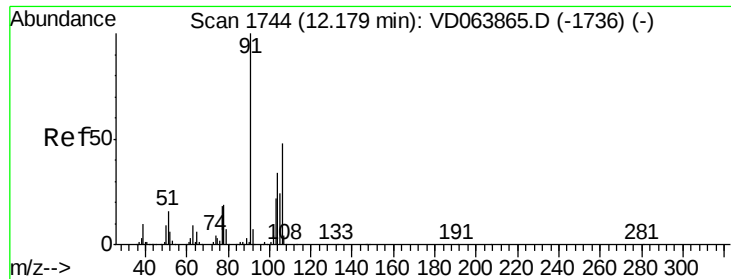
Tgt Ion: 106 Resp: 37644

Ion Ratio Lower Upper

106 100

91 200.1 154.8 232.2

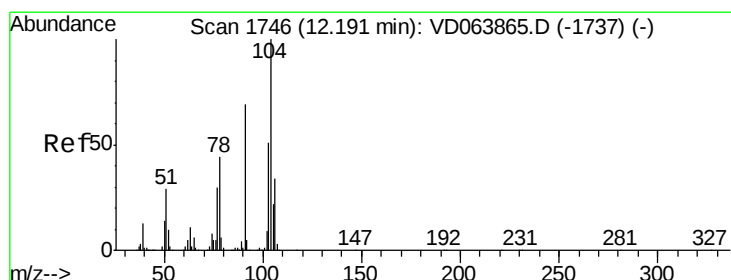
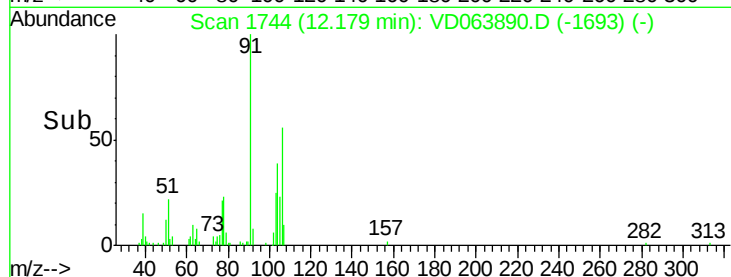
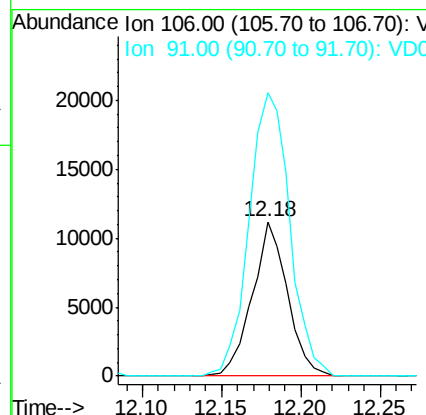
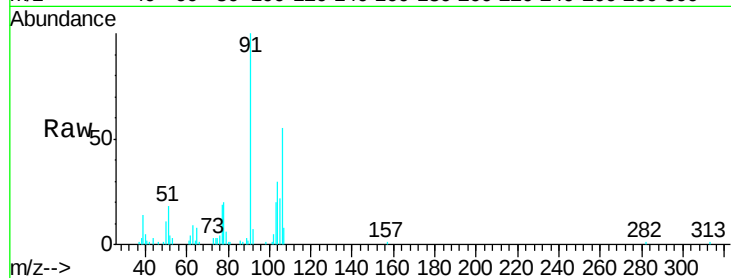




#69
o-Xylene
Concen: 4.510 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

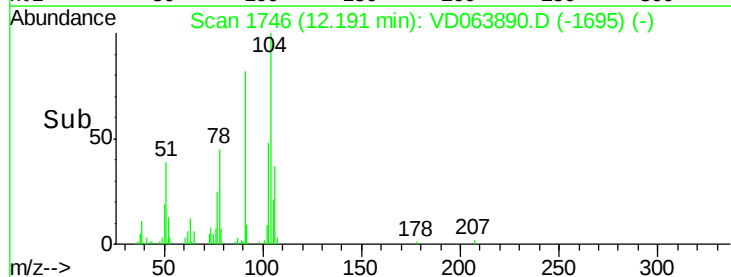
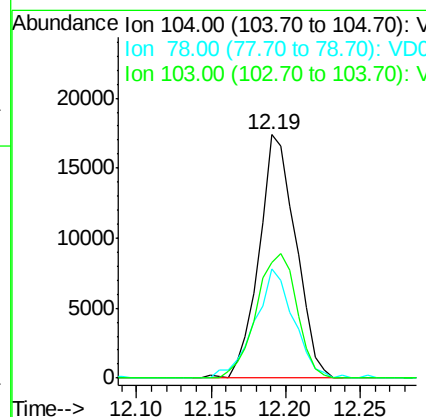
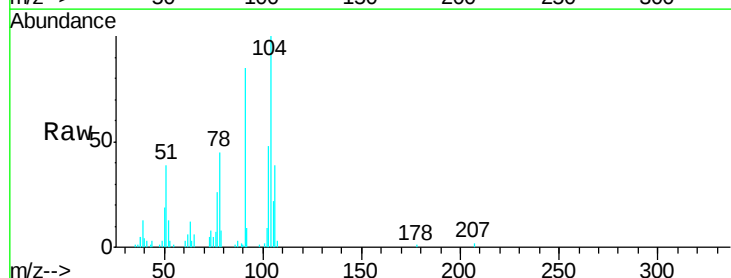
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

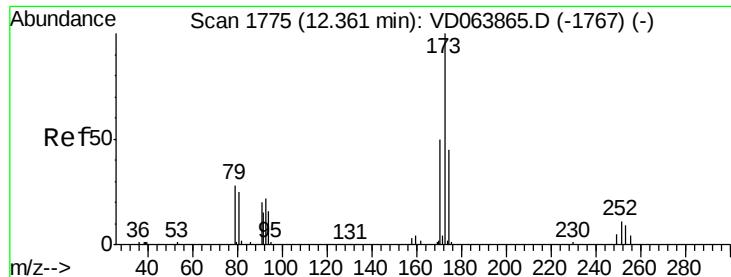
Tgt Ion:106 Resp: 17295
Ion Ratio Lower Upper
106 100
91 212.0 103.9 311.7



#70
Styrene
Concen: 4.562 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:104 Resp: 29618
Ion Ratio Lower Upper
104 100
78 47.6 37.0 55.4
103 56.1 44.2 66.4

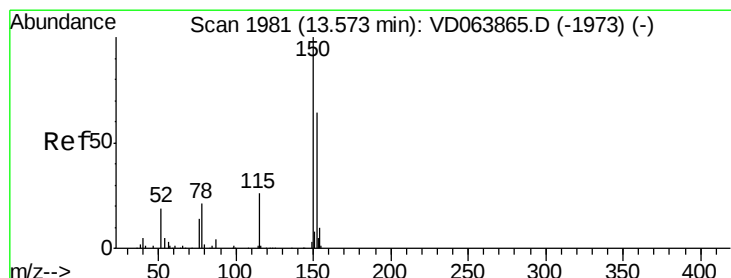
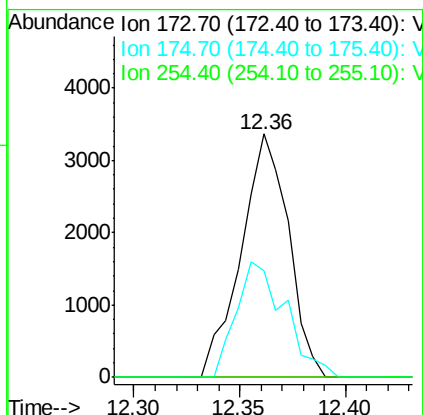
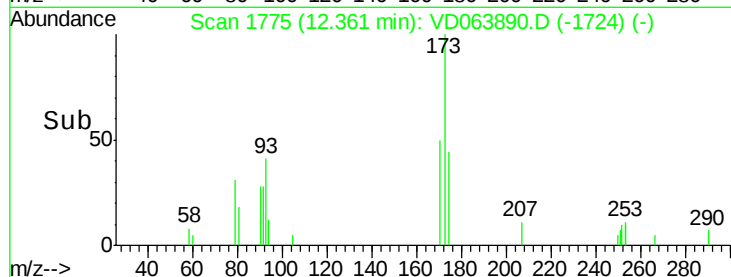
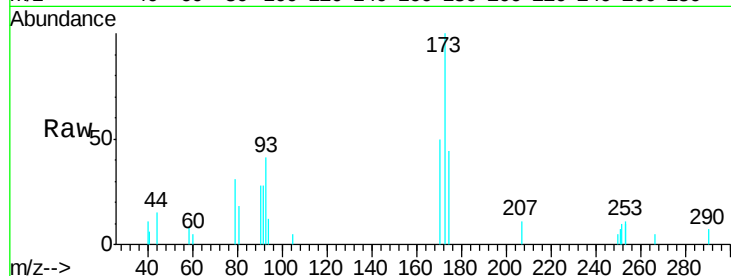




#71
Bromoform
Concen: 4.604 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

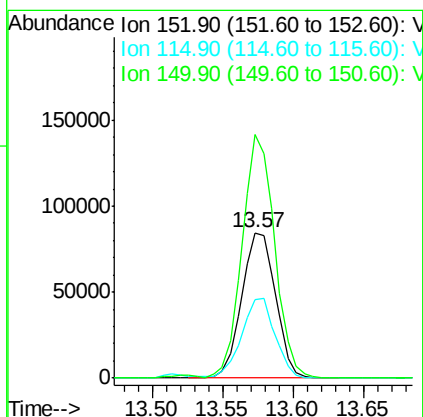
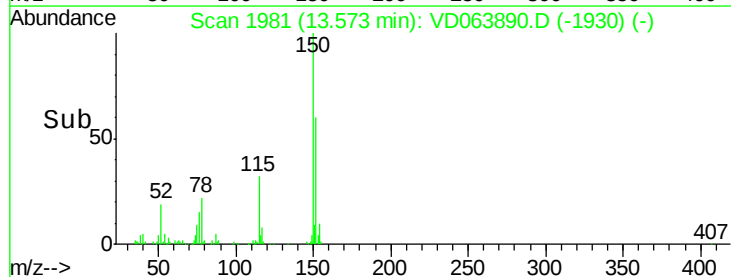
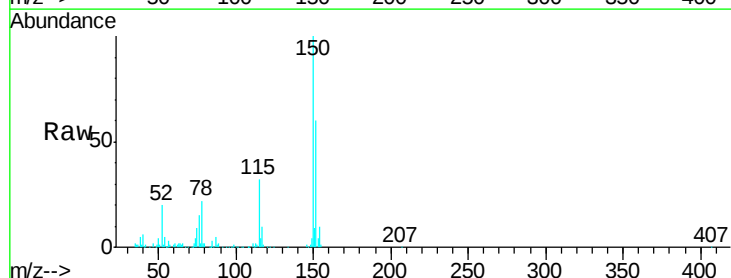
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

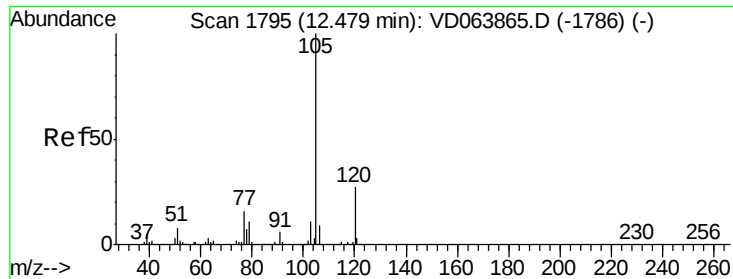
Tgt Ion:173 Resp: 5239
Ion Ratio Lower Upper
173 100
175 49.0 24.6 74.0
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:152 Resp: 142342
Ion Ratio Lower Upper
152 100
115 54.1 25.9 77.7
150 160.5 0.0 344.2





#73

Isopropylbenzene

Concen: 4.847 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

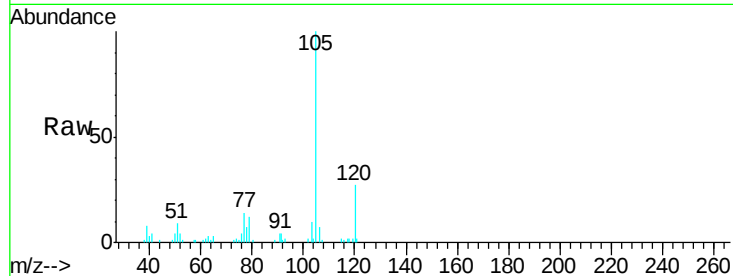
LOQ-SOIL-02-QT4-2019

Tgt Ion: 105 Resp: 46384

Ion Ratio Lower Upper

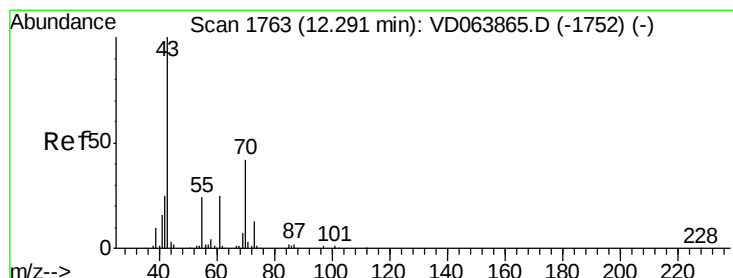
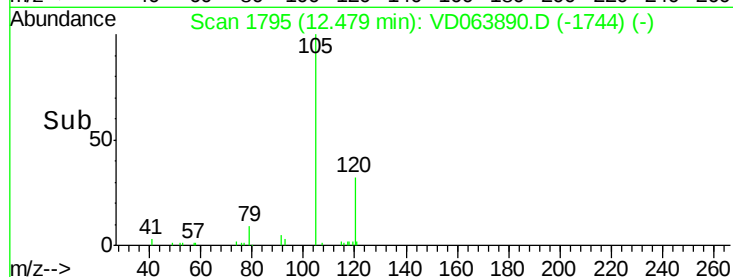
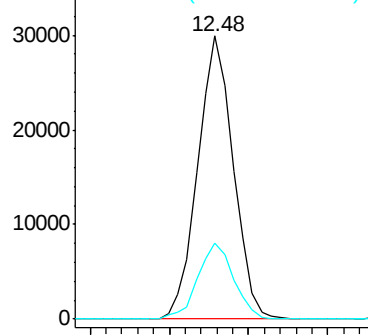
105 100

120 27.0 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 5.421 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion: 43 Resp: 11169

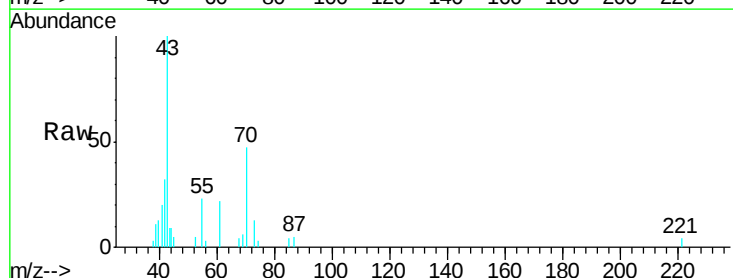
Ion Ratio Lower Upper

43 100

70 40.2 35.8 53.6

55 24.2 19.4 29.0

61 23.3 20.4 30.6

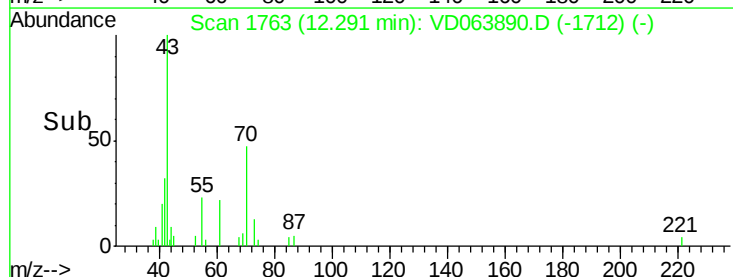
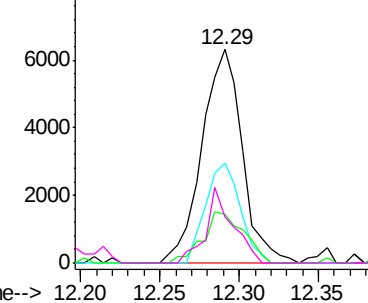


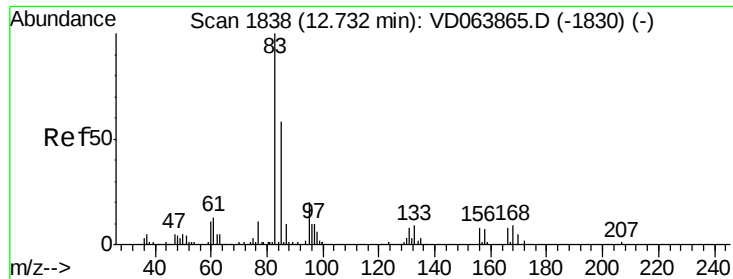
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 5.298 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

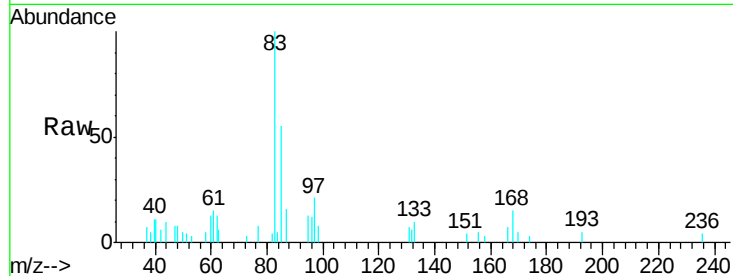
Tgt Ion: 83 Resp: 8821

Ion Ratio Lower Upper

83 100

131 9.3 5.6 16.8

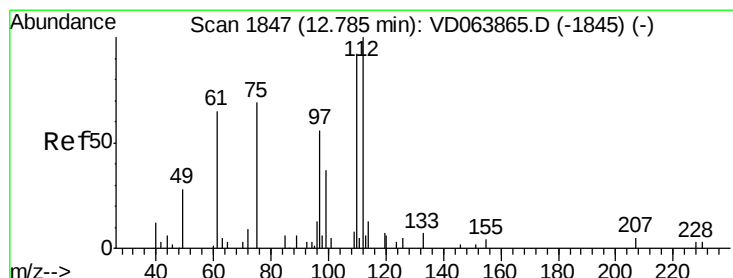
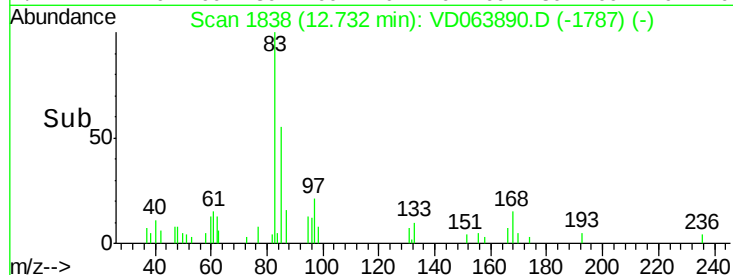
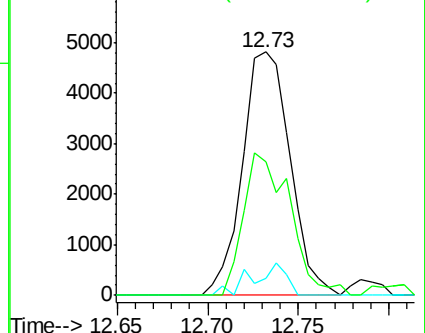
85 57.1 32.3 96.8



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 11.527 ug/l

RT: 12.78 min Scan# 1846

Delta R.T. -0.01 min

Lab File: VD063890.D

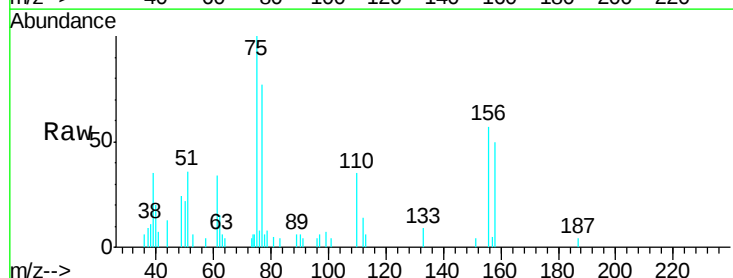
Acq: 04 Oct 2019 17:39

Tgt Ion: 75 Resp: 10989

Ion Ratio Lower Upper

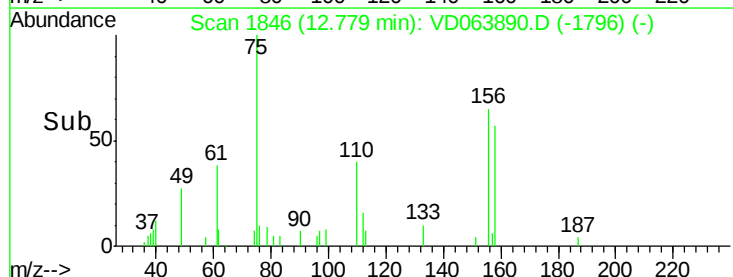
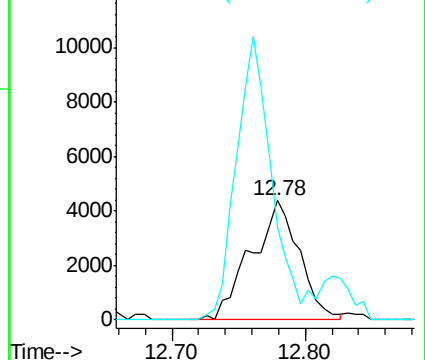
75 100

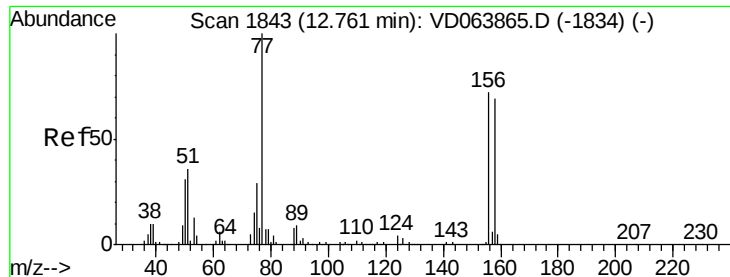
77 172.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 5.246 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

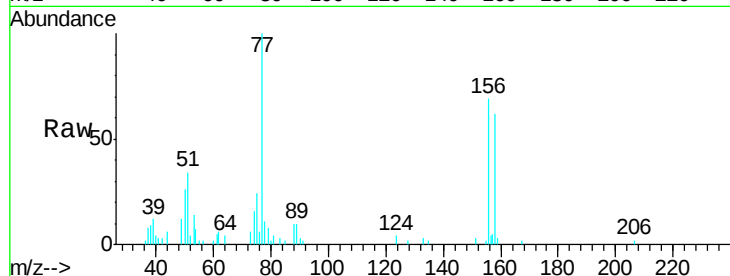
Tgt Ion:156 Resp: 12507

Ion Ratio Lower Upper

156 100

77 151.5 80.3 241.0

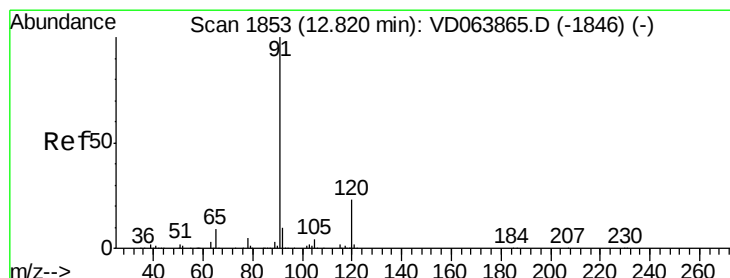
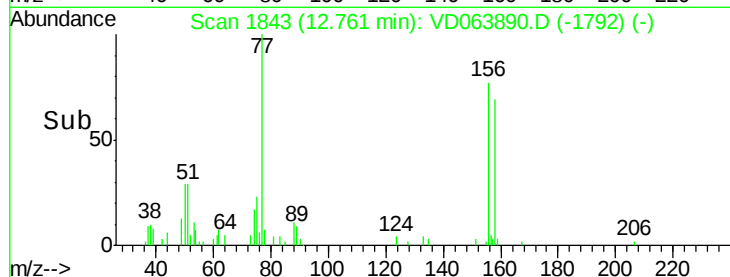
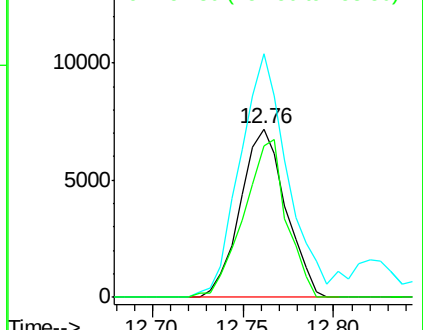
158 87.8 47.4 142.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.190 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD063890.D

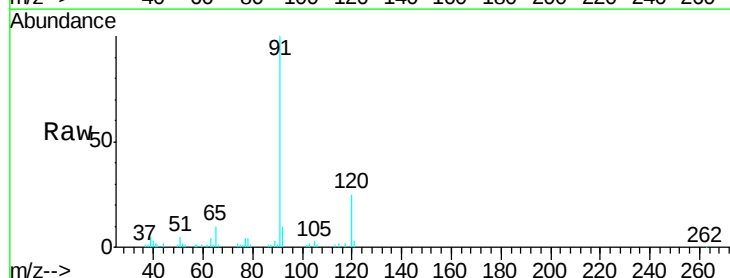
Acq: 04 Oct 2019 17:39

Tgt Ion: 91 Resp: 58292

Ion Ratio Lower Upper

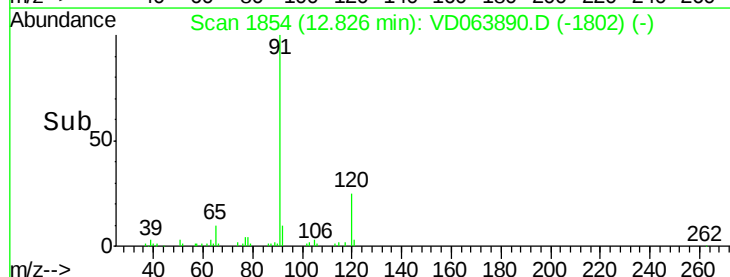
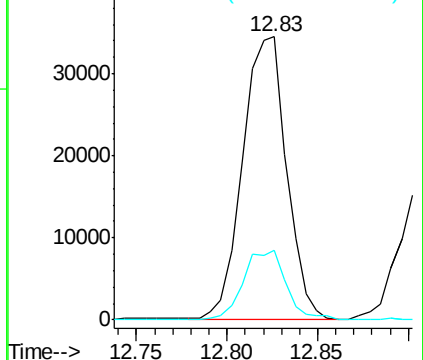
91 100

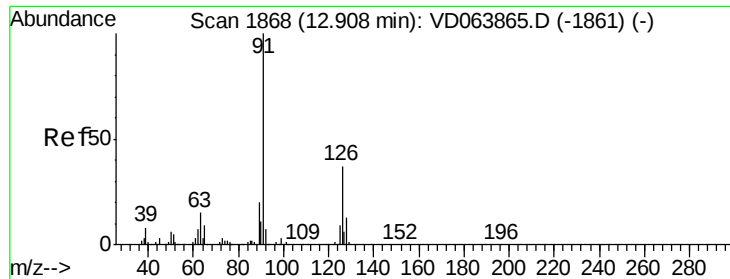
120 23.7 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

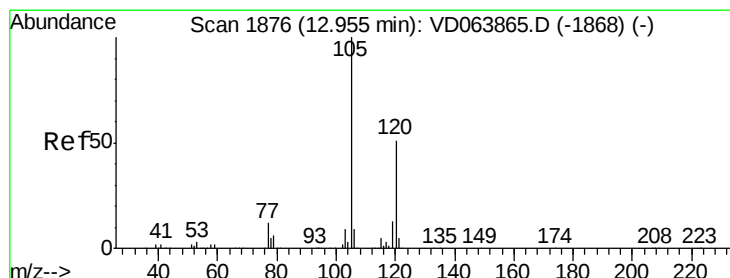
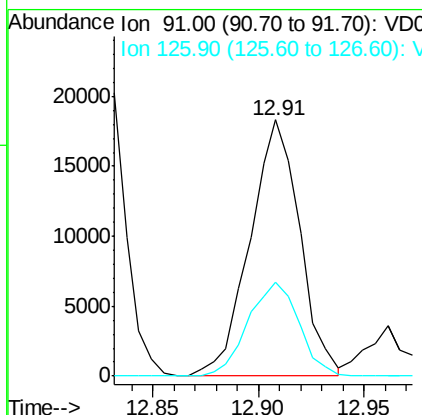
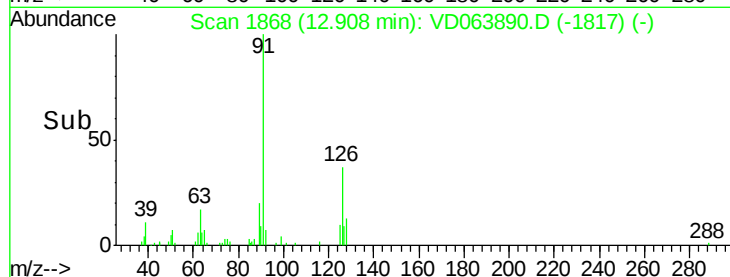
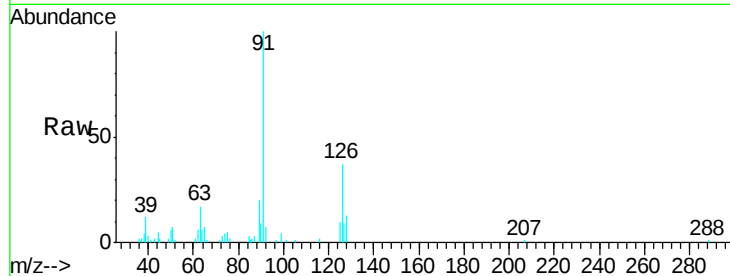




#79
2-Chlorotoluene
Concen: 4.847 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

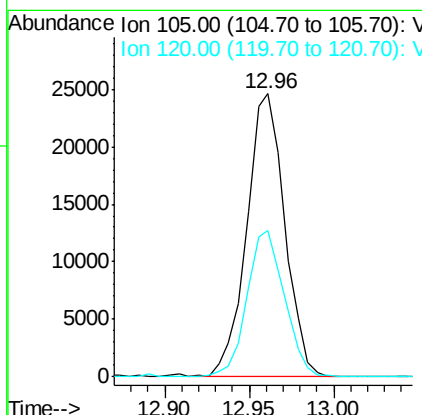
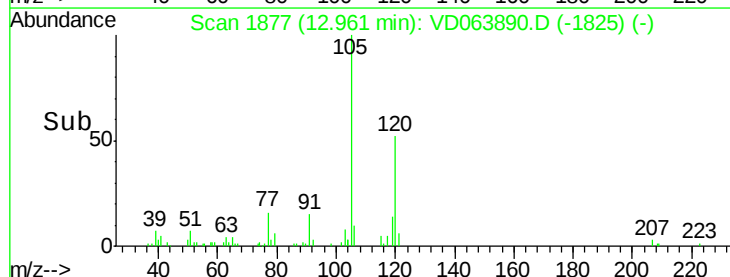
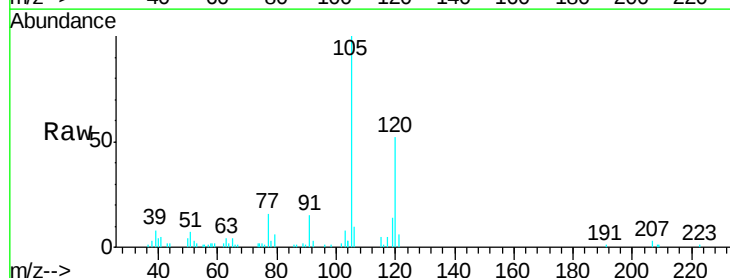
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

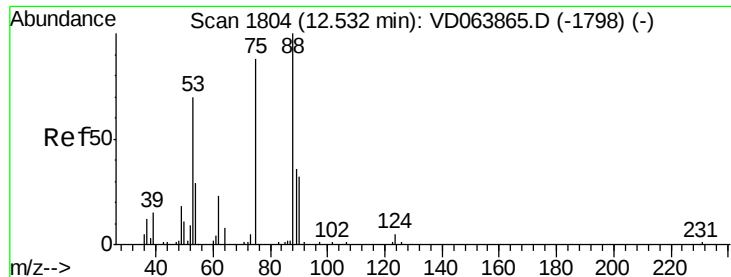
Tgt Ion: 91 Resp: 30017
Ion Ratio Lower Upper
91 100
126 37.4 18.4 55.2



#80
1,3,5-Trimethylbenzene
Concen: 4.838 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 105 Resp: 38626
Ion Ratio Lower Upper
105 100
120 51.0 25.9 77.8





#81

trans-1,4-Dichloro-2-butene

Concen: 4.464 ug/l

RT: 12.53 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

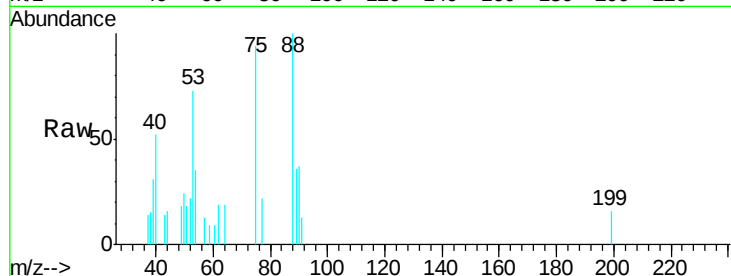
Tgt Ion: 75 Resp: 2405

Ion Ratio Lower Upper

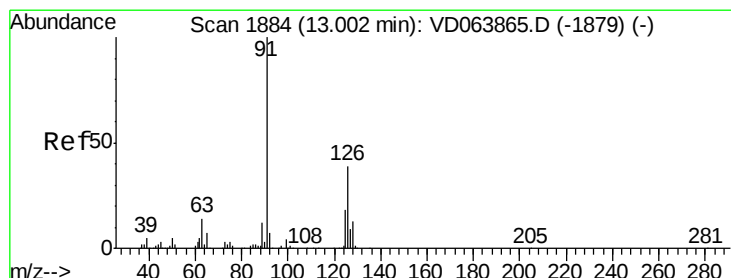
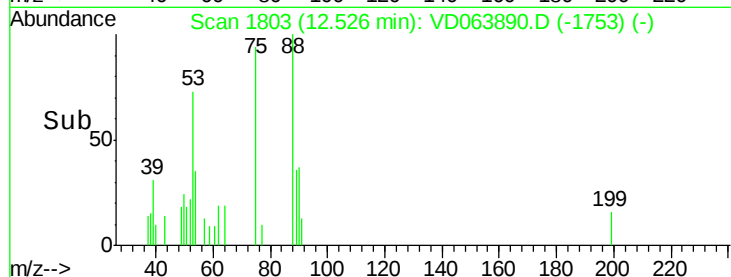
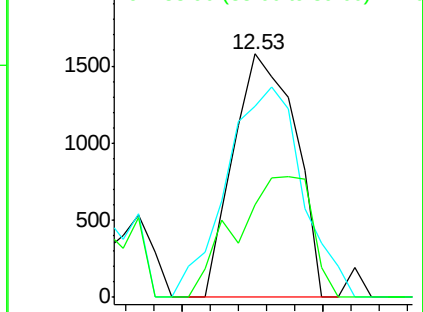
75 100

53 106.0 75.0 112.6

89 60.9 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 5.199 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.01 min

Lab File: VD063890.D

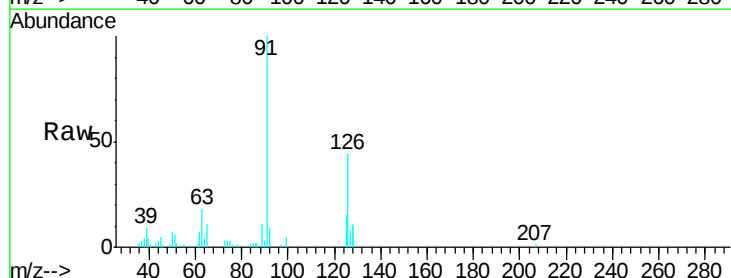
Acq: 04 Oct 2019 17:39

Tgt Ion: 91 Resp: 34160

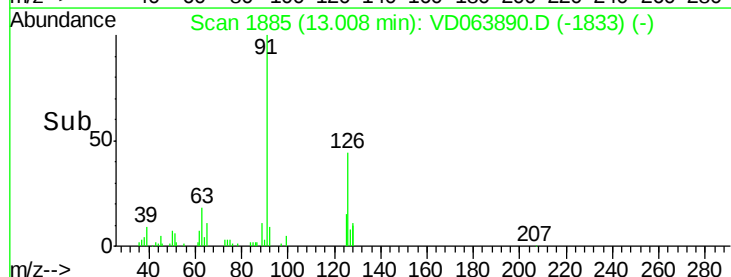
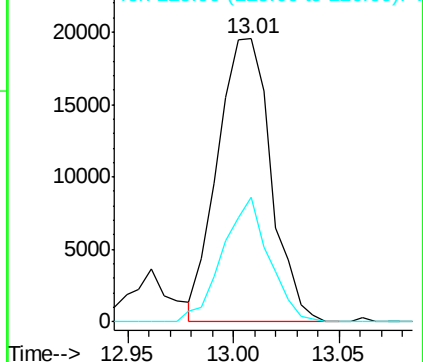
Ion Ratio Lower Upper

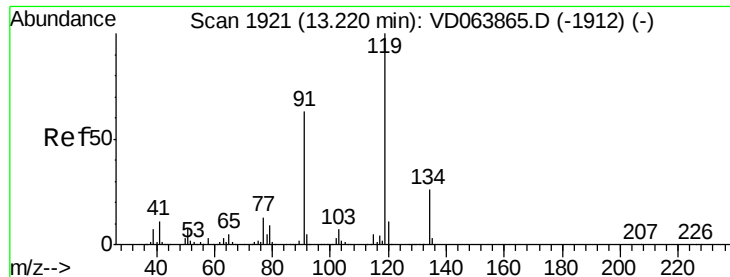
91 100

126 38.2 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.90 (125.60 to 126.60): V

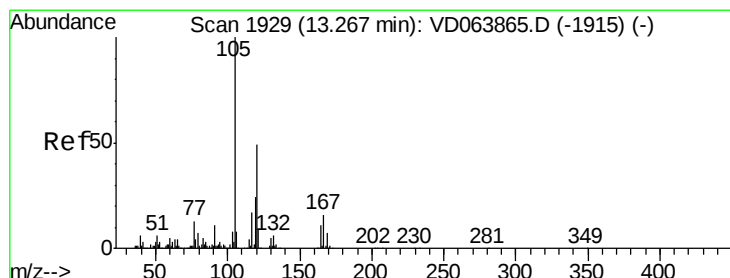
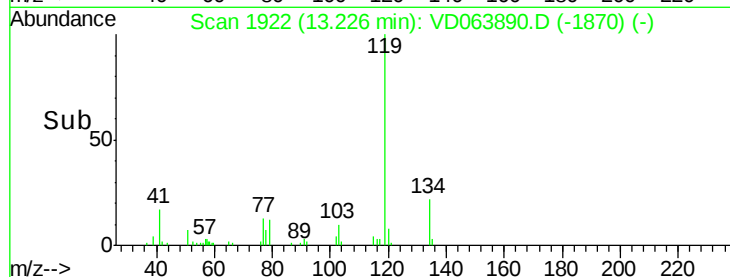
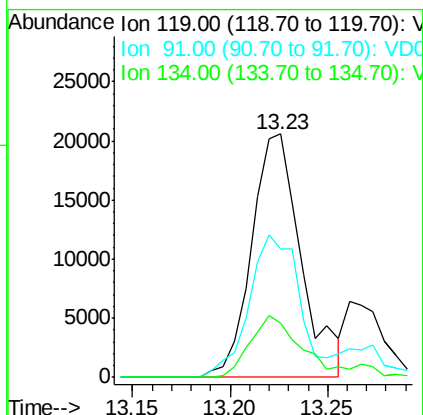
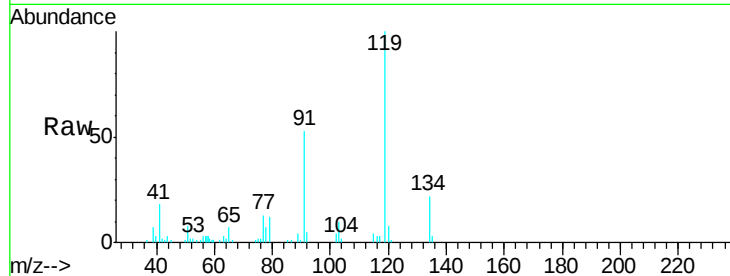




#83
tert-Butylbenzene
Concen: 5.090 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

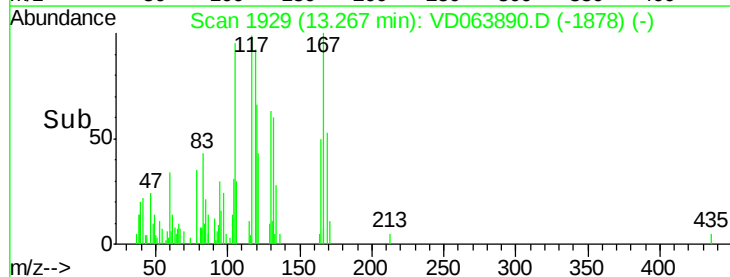
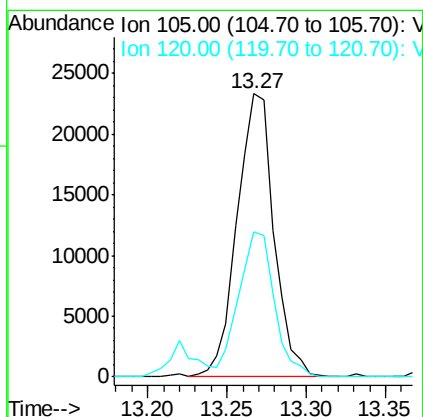
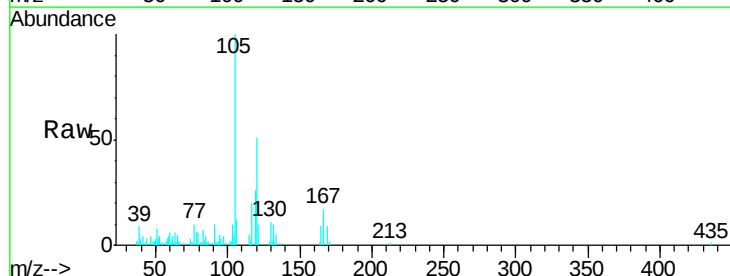
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

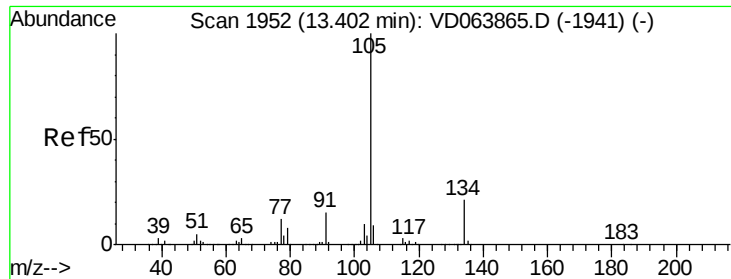
Tgt Ion:119 Resp: 36160
Ion Ratio Lower Upper
119 100
91 59.5 30.0 90.0
134 26.4 13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 4.573 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:105 Resp: 37633
Ion Ratio Lower Upper
105 100
120 49.3 23.8 71.5





#85

sec-Butylbenzene

Concen: 5.086 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

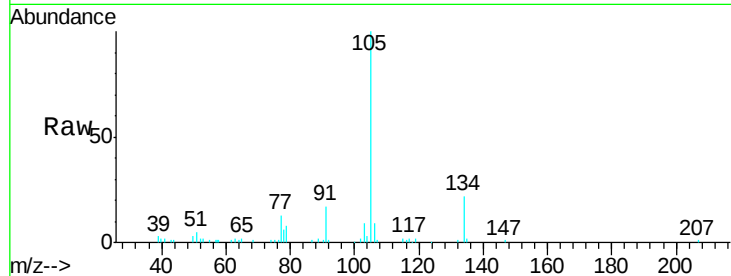
LOQ-SOIL-02-QT4-2019

Tgt Ion:105 Resp: 48803

Ion Ratio Lower Upper

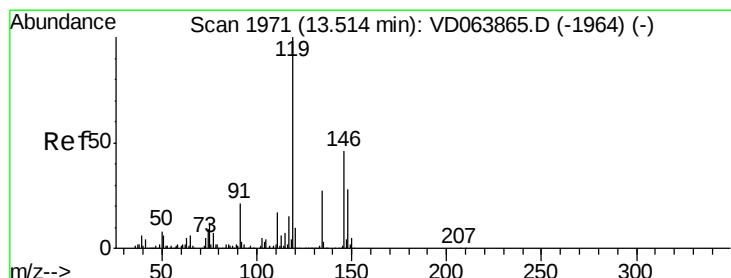
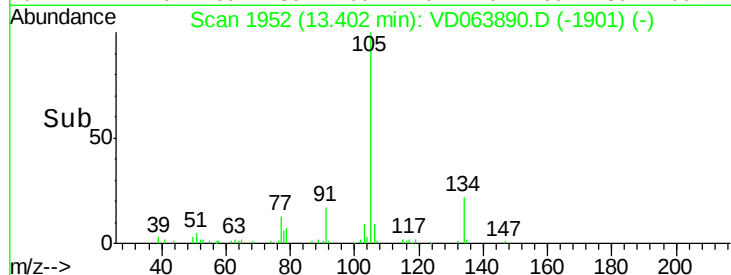
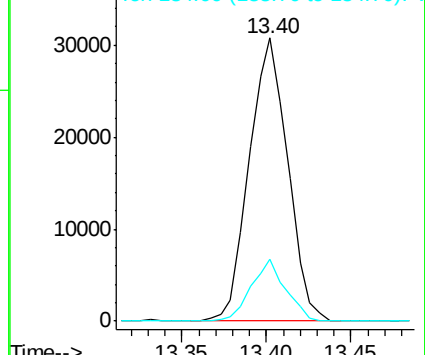
105 100

134 19.3 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.503 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

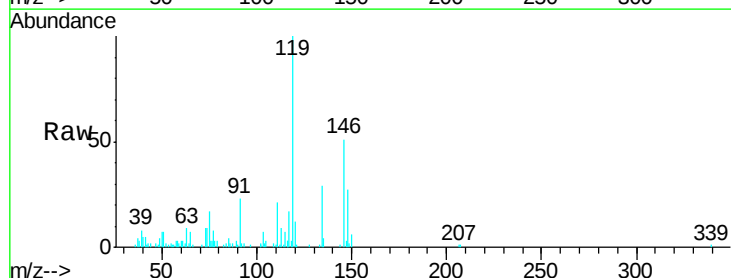
Tgt Ion:119 Resp: 40887

Ion Ratio Lower Upper

119 100

134 27.9 13.9 41.6

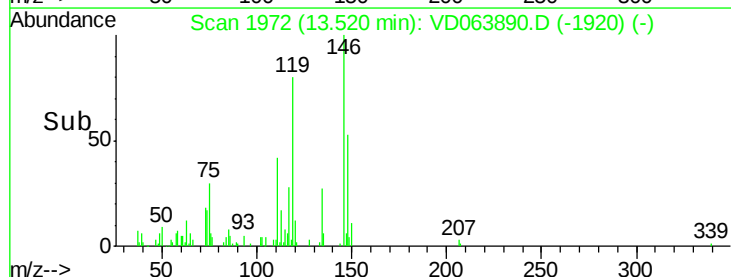
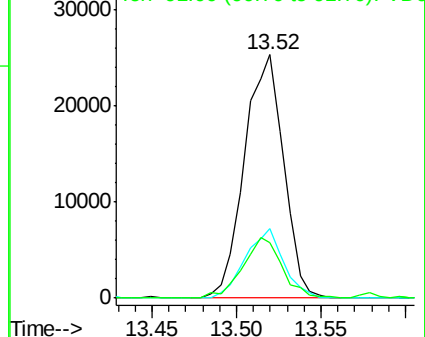
91 25.2 11.2 33.5

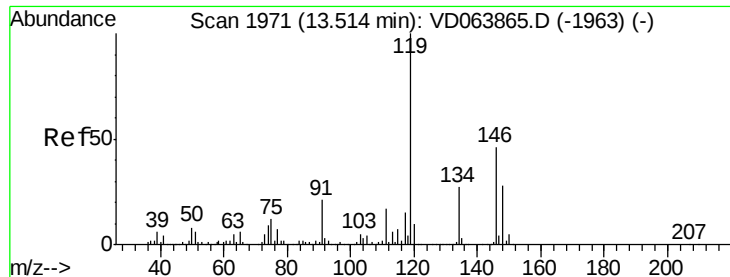


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

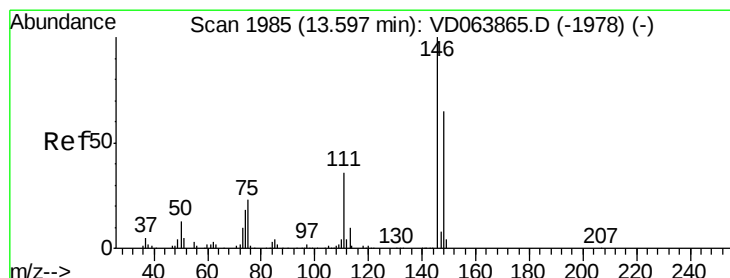
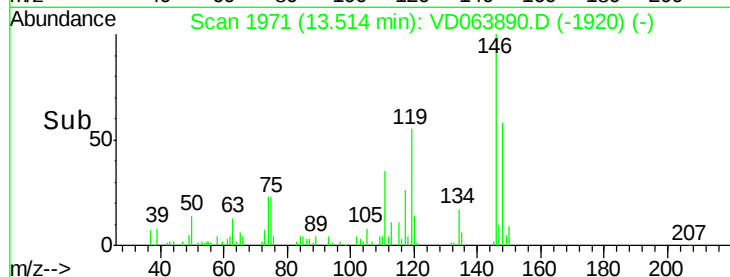
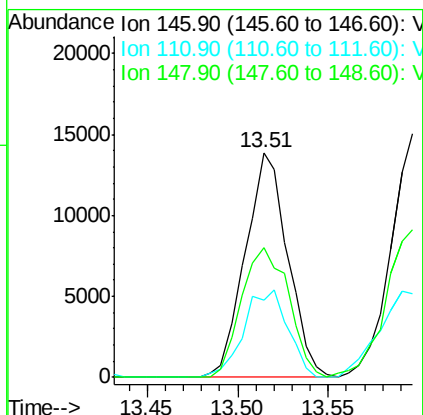
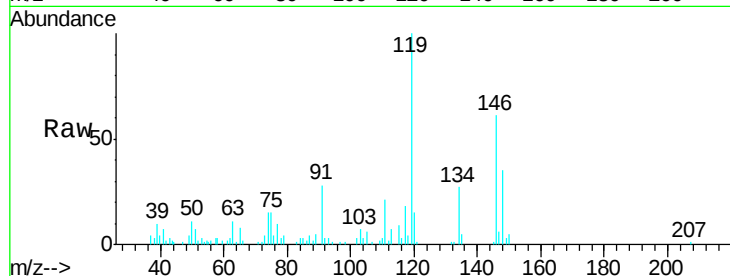




#87
 1,3-Dichlorobenzene
 Concen: 4.811 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

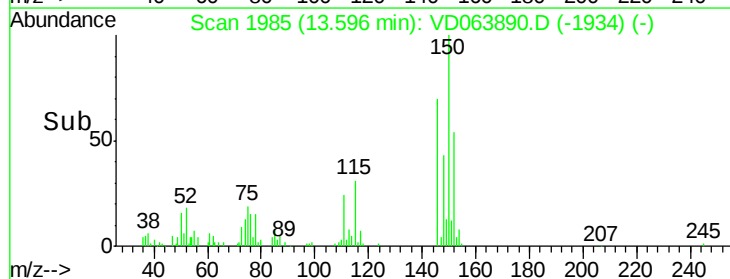
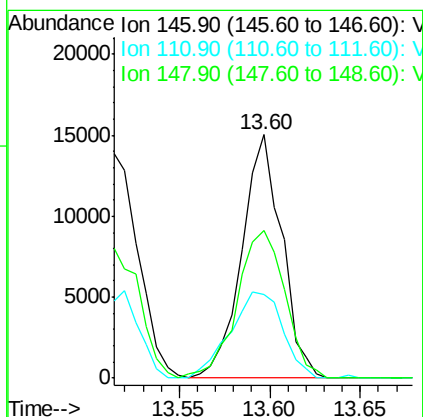
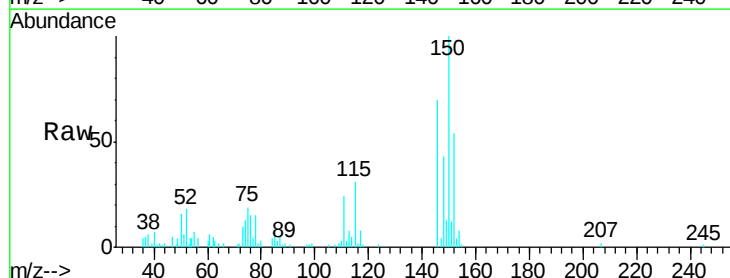
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

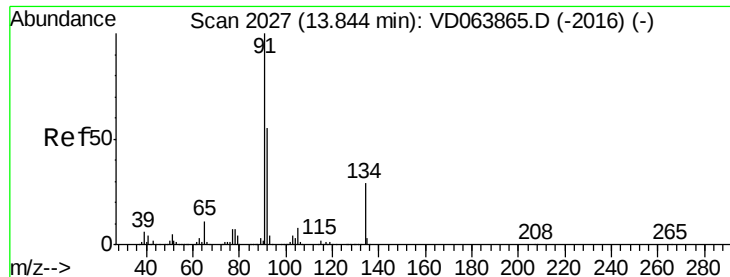
Tgt Ion:146 Resp: 22661
 Ion Ratio Lower Upper
 146 100
 111 40.3 18.3 54.9
 148 63.9 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 4.977 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion:146 Resp: 23127
 Ion Ratio Lower Upper
 146 100
 111 46.4 18.6 56.0
 148 72.4 32.6 98.0





#89

n-Butylbenzene

Concen: 5.197 ug/l

RT: 13.84 min Scan# 2027

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

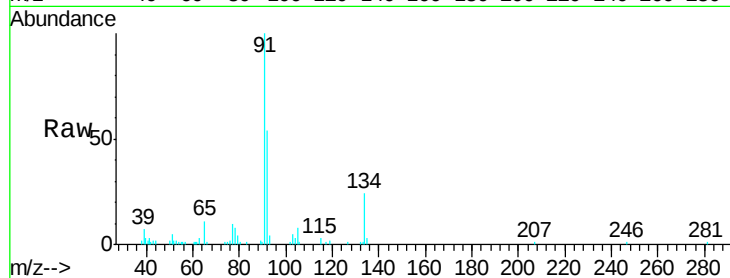
Tgt Ion: 91 Resp: 43921

Ion Ratio Lower Upper

91 100

92 50.9 26.8 80.3

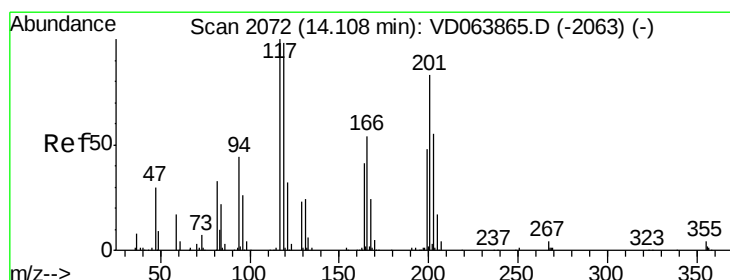
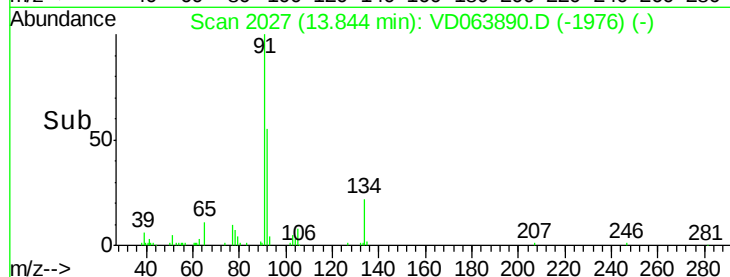
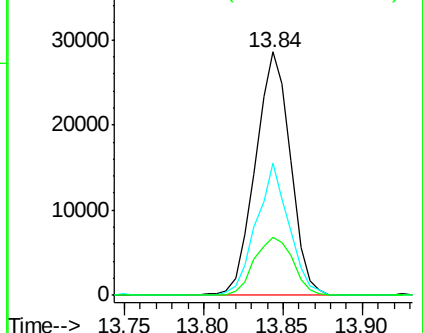
134 26.2 14.4 43.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#90

Hexachloroethane

Concen: 4.911 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. 0.01 min

Lab File: VD063890.D

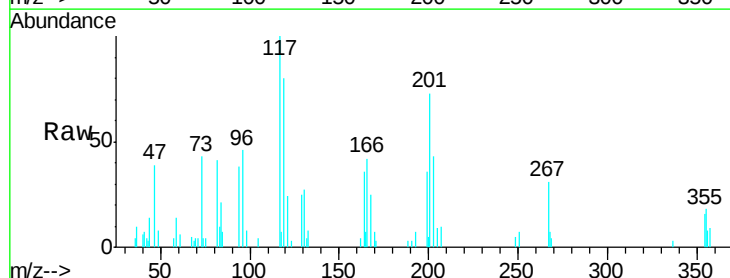
Acq: 04 Oct 2019 17:39

Tgt Ion: 117 Resp: 8019

Ion Ratio Lower Upper

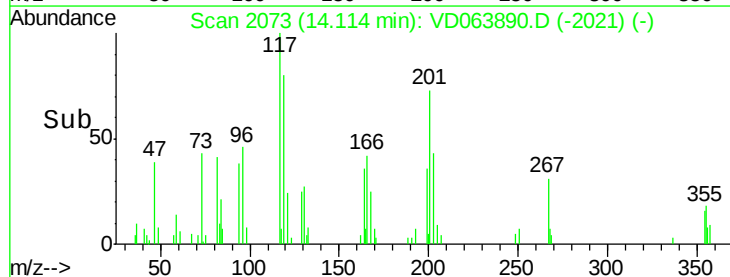
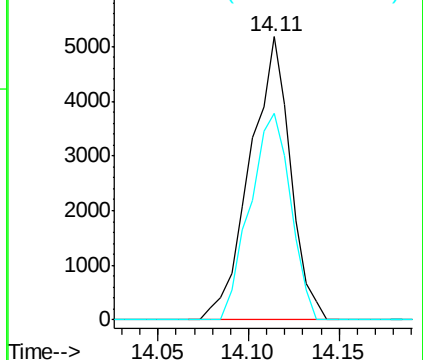
117 100

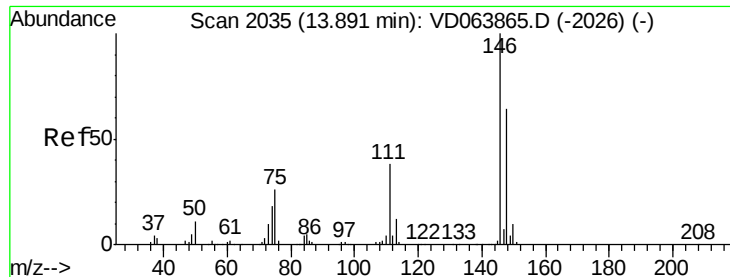
201 73.4 40.6 121.7



Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 200.70 (200.40 to 201.40): VDC

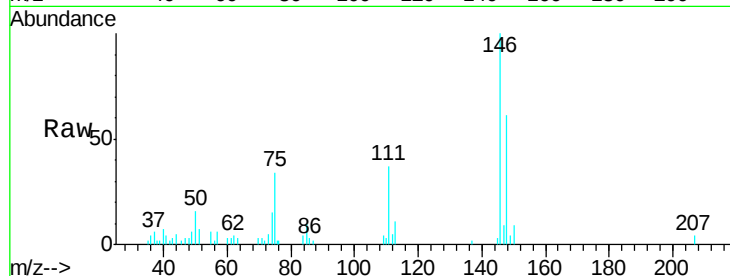




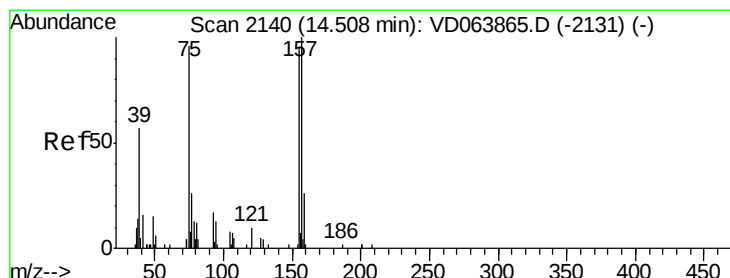
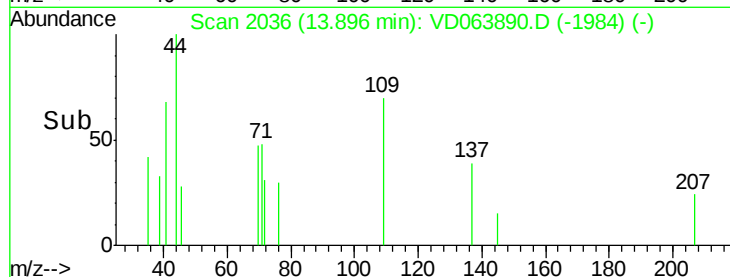
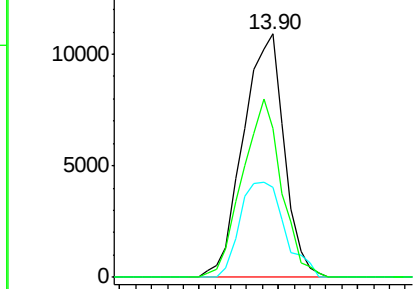
#91
 1,2-Dichlorobenzene
 Concen: 4.827 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	18.6	55.6
148	70.0	31.6	95.0

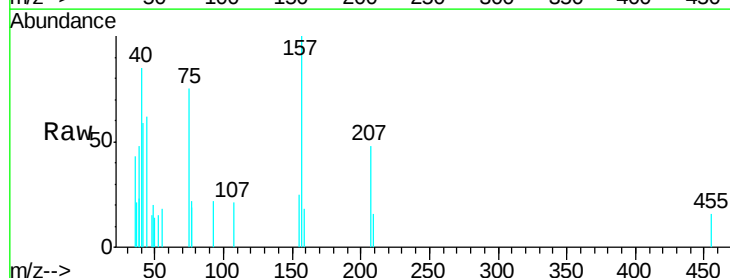


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

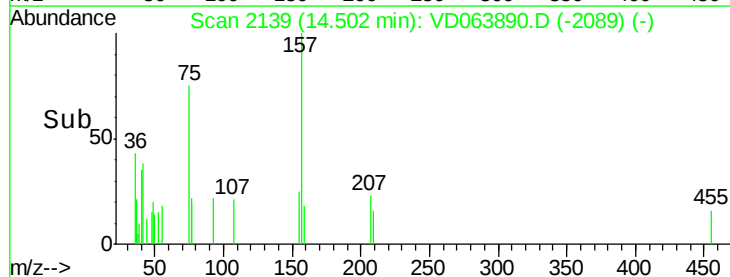
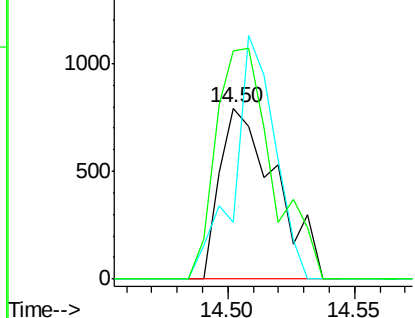


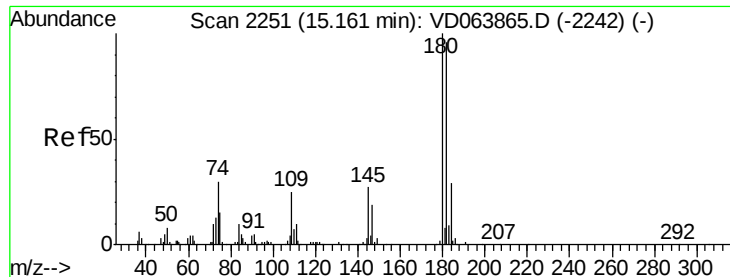
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.235 ug/l
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.2	43.9	131.6
157	136.1	56.0	167.9



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

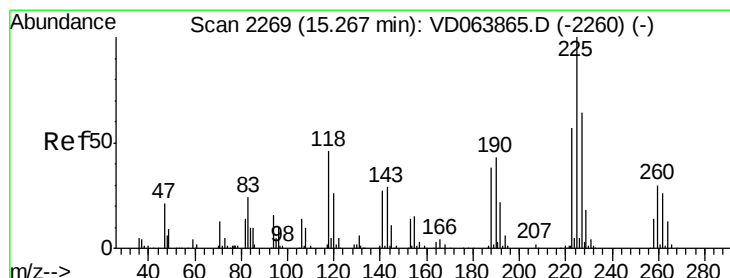
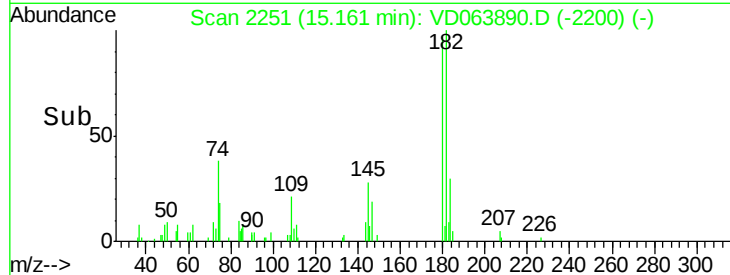
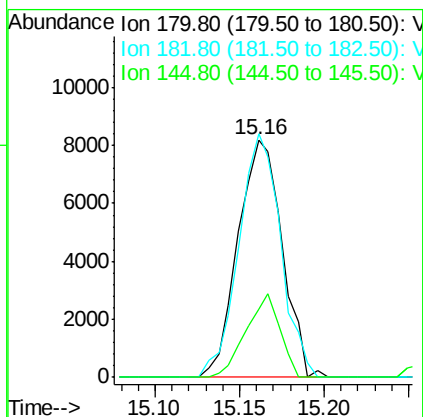
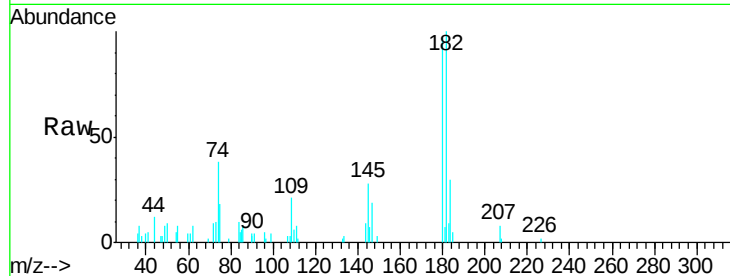




#93
 1,2,4-Trichlorobenzene
 Concen: 4.744 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

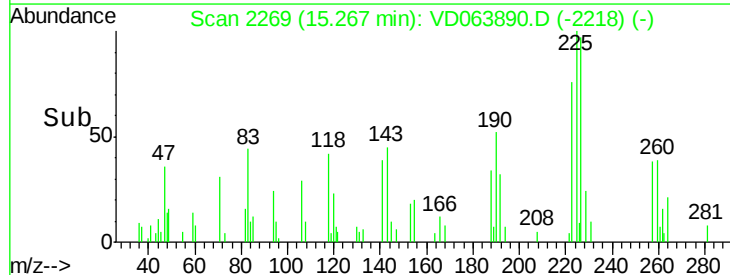
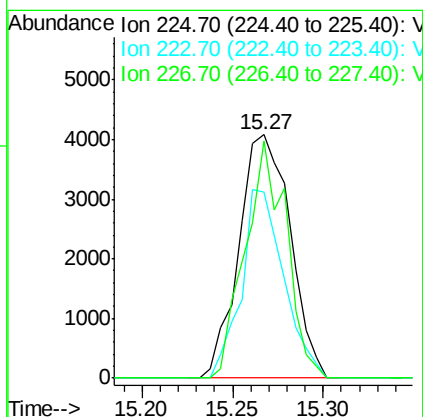
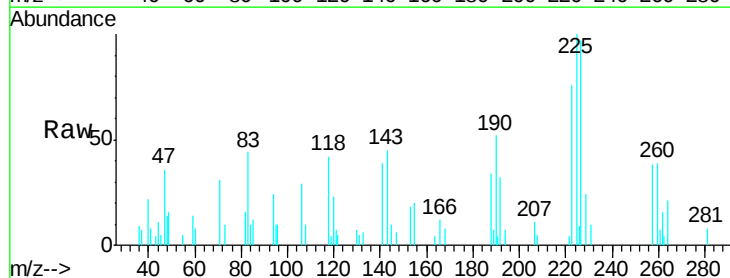
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

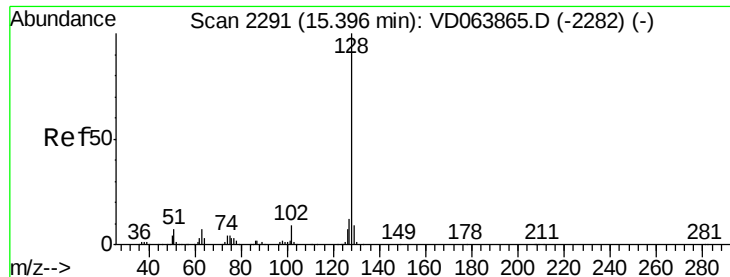
Tgt Ion:180 Resp: 14861
 Ion Ratio Lower Upper
 180 100
 182 97.4 47.4 142.3
 145 27.1 13.9 41.7



#94
 Hexachlorobutadiene
 Concen: 4.646 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion:225 Resp: 8030
 Ion Ratio Lower Upper
 225 100
 223 64.0 29.5 88.6
 227 78.0 30.8 92.4

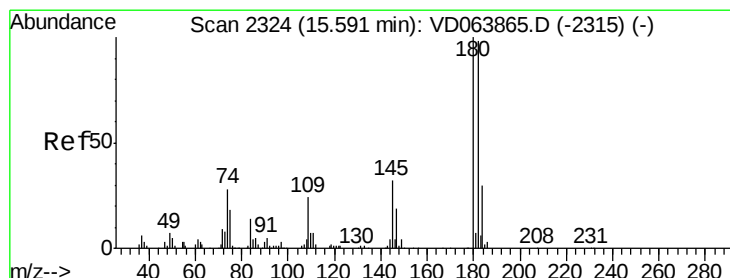
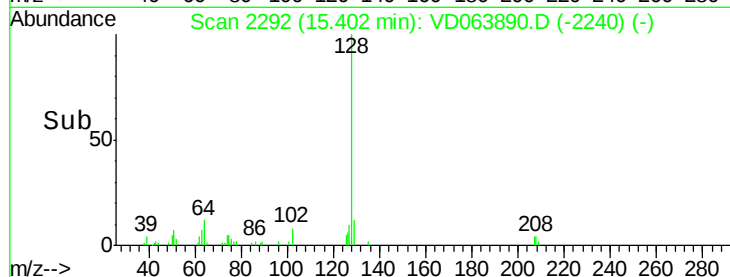
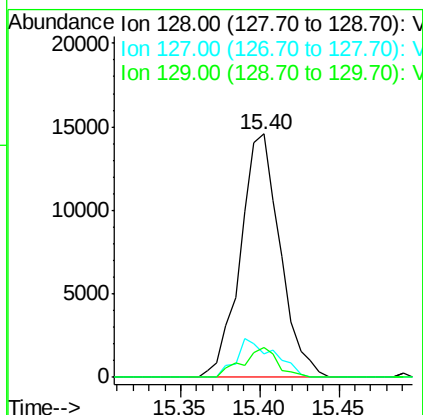
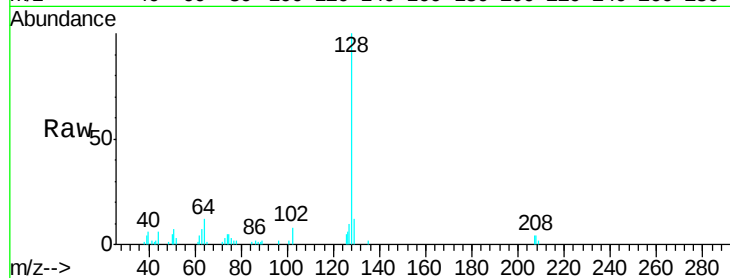




#95
Naphthalene
Concen: 4.799 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tgt Ion:128 Resp: 25263
Ion Ratio Lower Upper
128 100
127 15.3 10.6 16.0
129 10.9 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 5.207 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:180 Resp: 14071
Ion Ratio Lower Upper
180 100
182 87.9 47.0 141.0
145 32.3 15.3 45.9

