

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101020\
 Data File : VW016870.D
 Acq On : 09 Oct 2020 19:41
 Operator : SY/VA
 Sample : L4214-02 5PPBL00
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

Quant Time: Oct 10 05:32:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101020S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 05:30:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	371384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	567242	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	503196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	257787	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	165156	54.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.34%	
35) Dibromofluoromethane	7.89	113	176758	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.32	98	657634	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.62	95	230109	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.01	85	10756	5.310	ug/l 94
3) Chloromethane	2.22	50	13352	6.012	ug/l 100
4) Vinyl Chloride	2.37	62	17165	5.344	ug/l 96
5) Bromomethane	2.79	94	14071	5.704	ug/l 98
6) Chloroethane	2.93	64	11335	5.546	ug/l 95
7) Trichlorofluoromethane	3.26	101	11914	5.095	ug/l 95
8) Diethyl Ether	3.69	74	7947	5.441	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	4.07	101	16997	5.398	ug/l 98
10) Methyl Iodide	4.28	142	27513	5.466	ug/l 99
11) Tert butyl alcohol	5.17	59	6178	41.847	ug/l 99
12) 1,1-Dichloroethene	4.05	96	16989	5.466	ug/l 98
13) Acrolein	3.89	56	5805	29.085	ug/l 94
14) Allyl chloride	4.67	41	19606	5.270	ug/l 99
15) Acrylonitrile	5.38	53	13714	28.209	ug/l 97
16) Acetone	4.12	43	14727	30.101	ug/l 99
17) Carbon Disulfide	4.39	76	43391	5.248	ug/l 98
18) Methyl Acetate	4.68	43	7868	7.011	ug/l 94
19) Methyl tert-butyl Ether	5.43	73	19616	5.856	ug/l 93
20) Methylene Chloride	4.93	84	29513	7.612	ug/l 97
21) trans-1,2-Dichloroethene	5.43	96	18838	5.399	ug/l 97
22) Diisopropyl ether	6.32	45	36897	5.457	ug/l 96
23) Vinyl Acetate	6.26	43	106443	24.569	ug/l 97
24) 1,1-Dichloroethane	6.23	63	29319	5.469	ug/l 97
25) 2-Butanone	7.18	43	18664	28.614	ug/l 98
26) 2,2-Dichloropropane	7.17	77	19134	5.833	ug/l 93
27) cis-1,2-Dichloroethene	7.18	96	20135	5.388	ug/l 95
28) Bromochloromethane	7.52	49	11949	5.569	ug/l 98
29) Tetrahydrofuran	7.54	42	10545	28.863	ug/l 98
30) Chloroform	7.68	83	31677	5.435	ug/l 96
31) Cyclohexane	7.96	56	27786	6.076	ug/l # 76
32) 1,1,1-Trichloroethane	7.88	97	26963	5.484	ug/l 98
36) 1,1-Dichloropropene	8.09	75	24665	5.030	ug/l 99
37) Ethyl Acetate	7.27	43	7833	4.889	ug/l 98
38) Carbon Tetrachloride	8.07	117	24269	4.760	ug/l 96

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	26728	4.780	ug/l	92
40) Benzene	8.33	78	70926	5.191	ug/l	93
41) Methacrylonitrile	7.49	41	5068	5.338	ug/l	92
42) 1,2-Dichloroethane	8.40	62	19840	5.308	ug/l	100
43) Isopropyl Acetate	8.43	43	16034	5.224	ug/l	98
44) Trichloroethene	9.10	130	21413	5.063	ug/l	93
45) 1,2-Dichloropropane	9.37	63	15924	5.111	ug/l	97
46) Dibromomethane	9.46	93	9067	5.088	ug/l	98
47) Bromodichloromethane	9.65	83	21450	4.841	ug/l	93
48) Methyl methacrylate	9.44	41	6900	4.879	ug/l	95
49) 1,4-Dioxane	9.45	88	2085	101.709	ug/l #	95
51) 4-Methyl-2-Pentanone	10.21	43	40348	25.986	ug/l	99
52) Toluene	10.39	92	46454	5.143	ug/l	96
53) t-1,3-Dichloropropene	10.61	75	18483	4.582	ug/l	98
54) cis-1,3-Dichloropropene	10.08	75	23362	4.741	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	13339	5.258	ug/l	93
56) Ethyl methacrylate	10.65	69	13242	4.798	ug/l	97
57) 1,3-Dichloropropane	10.93	76	21350	5.087	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	35877	23.461	ug/l	100
59) 2-Hexanone	10.98	43	24844	24.183	ug/l	98
60) Dibromochloromethane	11.13	129	14108	4.534	ug/l	94
61) 1,2-Dibromoethane	11.24	107	12515	4.982	ug/l	98
64) Tetrachloroethene	10.87	164	19216	5.360	ug/l	96
65) Chlorobenzene	11.66	112	52162	5.285	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	17275	4.949	ug/l	99
67) Ethyl Benzene	11.73	91	87522	5.089	ug/l	99
68) m/p-Xylenes	11.84	106	68610	10.257	ug/l	98
69) o-Xylene	12.17	106	31037	5.056	ug/l	100
70) Styrene	12.18	104	50667	4.959	ug/l	98
71) Bromoform	12.35	173	8112	4.629	ug/l #	95
73) Isopropylbenzene	12.47	105	86775	5.064	ug/l	100
74) N-amyl acetate	12.27	43	12911	4.691	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	14425	5.366	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	16742	8.704	ug/l	32
77) Bromobenzene	12.75	156	23052	5.443	ug/l	96
78) n-propylbenzene	12.80	91	98899	5.005	ug/l	99
79) 2-Chlorotoluene	12.90	91	57980	5.144	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	73364	5.109	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	111599	155.947	ug/l #	11
82) 4-Chlorotoluene	12.99	91	60462	5.196	ug/l	99
83) tert-Butylbenzene	13.21	119	61746	4.951	ug/l	95
84) 1,2,4-Trimethylbenzene	13.25	105	71551	5.001	ug/l	98
85) sec-Butylbenzene	13.38	105	88866	5.119	ug/l	99
86) p-Isopropyltoluene	13.50	119	81082	5.016	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	41850	5.110	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	42514	5.267	ug/l	93
89) n-Butylbenzene	13.82	91	70200	4.821	ug/l	100
90) Hexachloroethane	14.09	117	11515	4.617	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	36281	5.134	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2130	5.174	ug/l	87

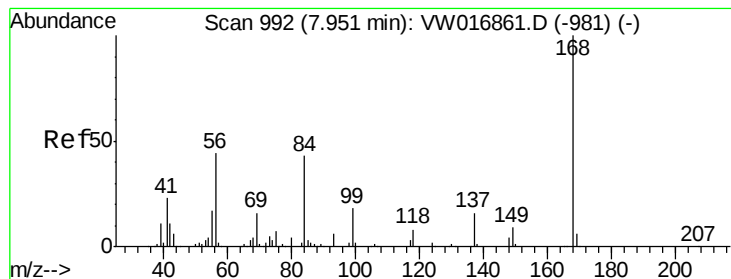
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	23662	4.853	ug/l	98
94) Hexachlorobutadiene	15.24	225	15976	5.054	ug/l	98
95) Naphthalene	15.37	128	35136	4.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	20855	4.916	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

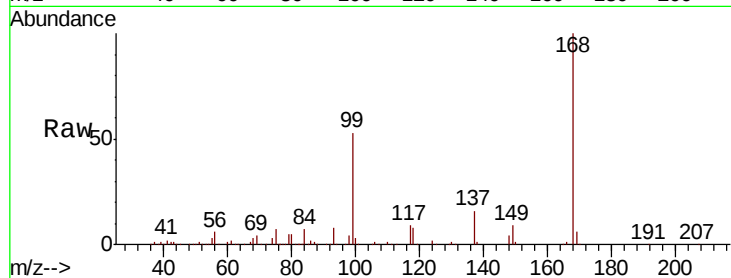
LOQ-SOIL-02-QT4-2020

Tot Ion:168 Resp: 371384

Ion Ratio Lower Upper

168 100

99 52.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

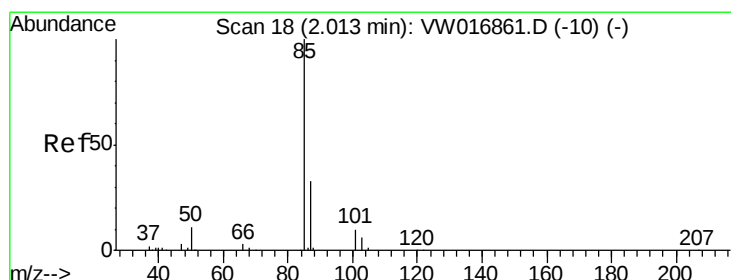
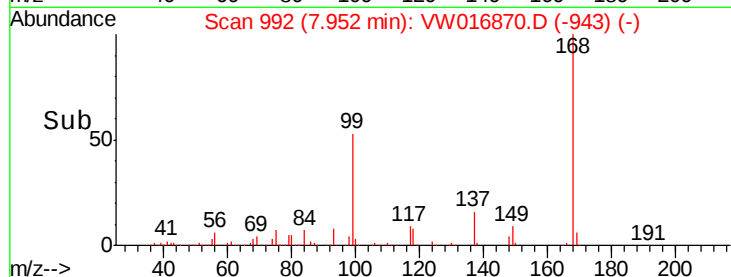
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 5.310 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW016870.D

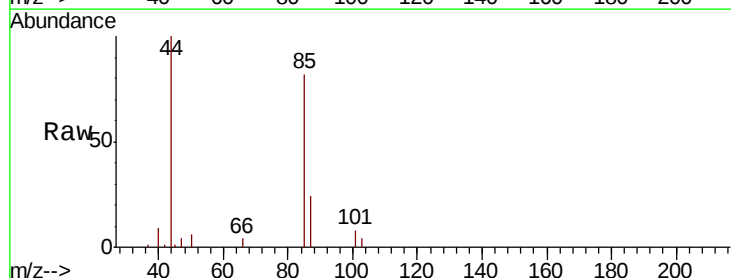
Acq: 09 Oct 2020 19:41

Tgt Ion: 85 Resp: 10756

Ion Ratio Lower Upper

85 100

87 29.4 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

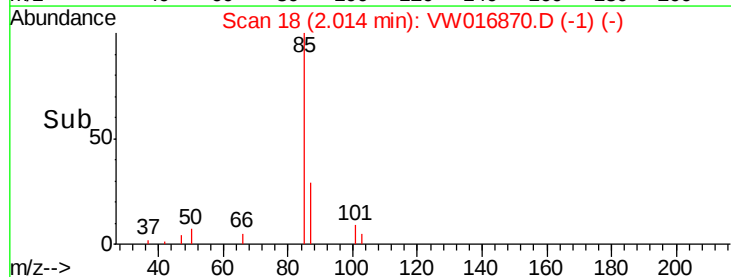
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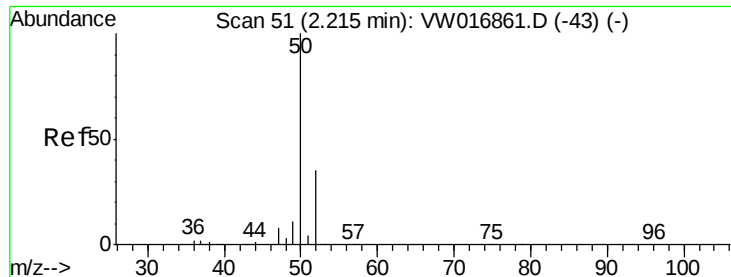
2000

1000

0

Time-->





#3

Chloromethane

Concen: 6.012 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

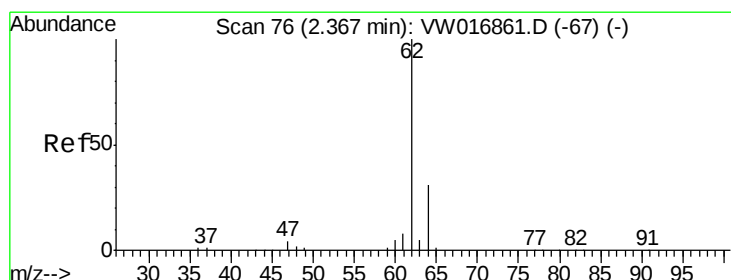
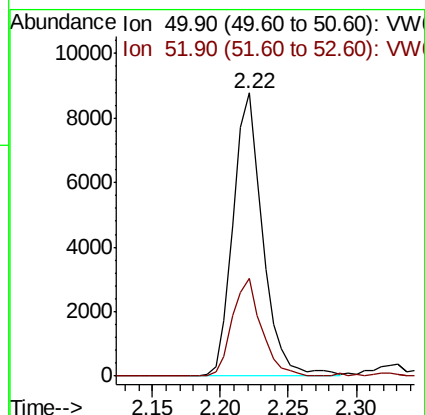
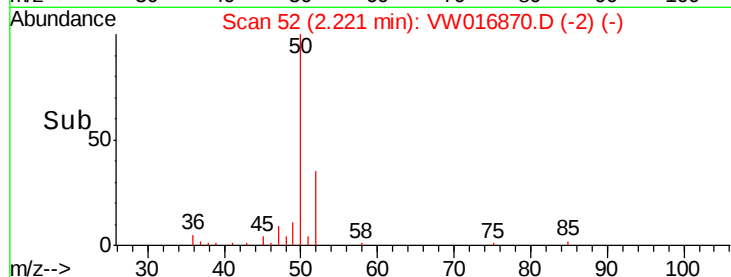
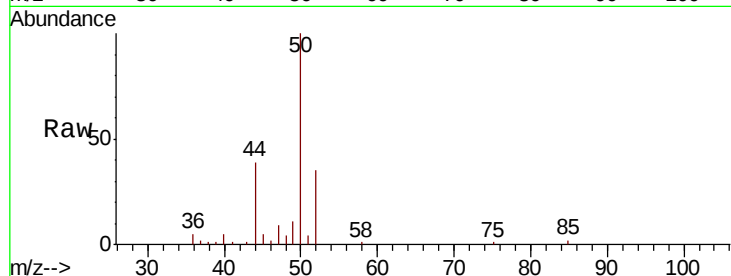
LOQ-SOIL-02-QT4-2020

Tot Ion: 50 Resp: 13352

Ion Ratio Lower Upper

50 100

52 34.5 27.6 41.4



#4

Vinyl Chloride

Concen: 5.344 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016870.D

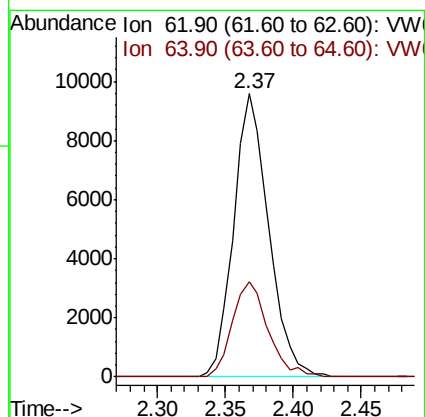
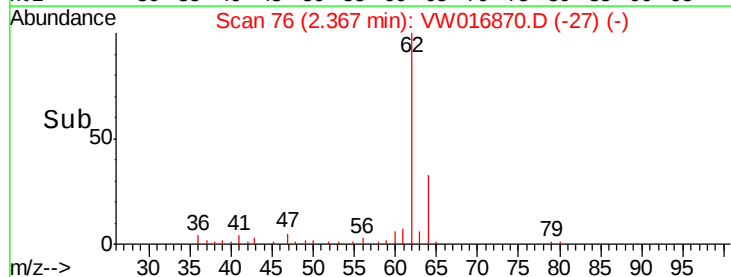
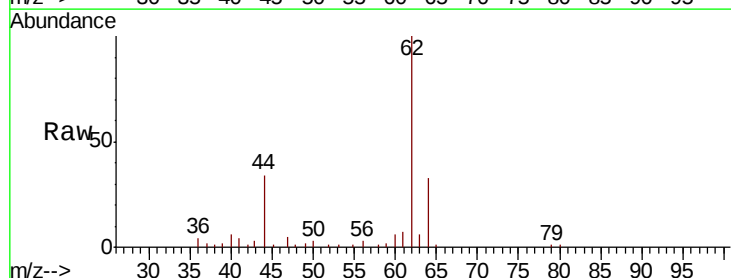
Acq: 09 Oct 2020 19:41

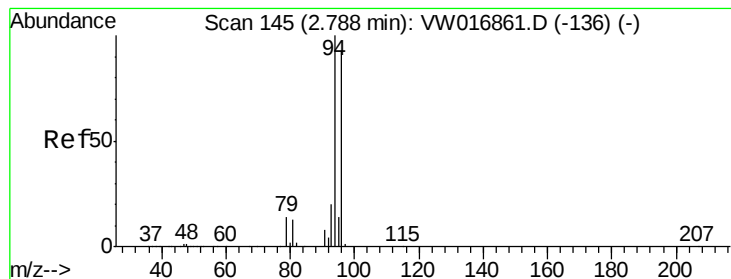
Tgt Ion: 62 Resp: 17165

Ion Ratio Lower Upper

62 100

64 33.5 25.0 37.4





#5

Bromomethane

Concen: 5.704 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

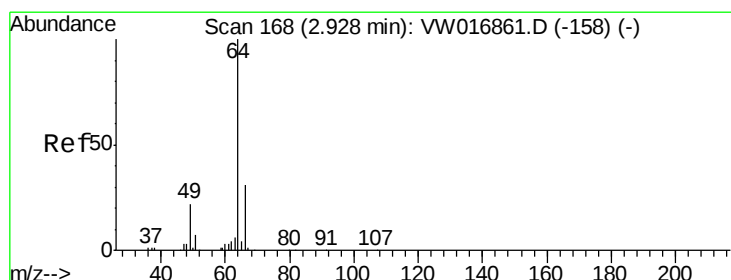
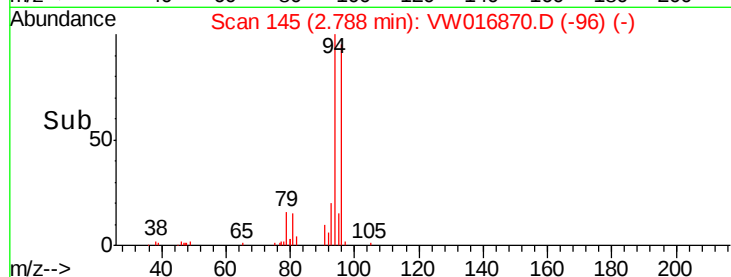
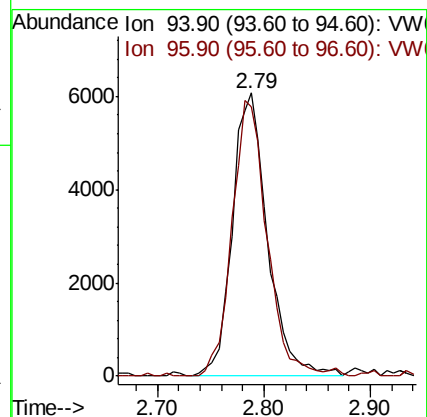
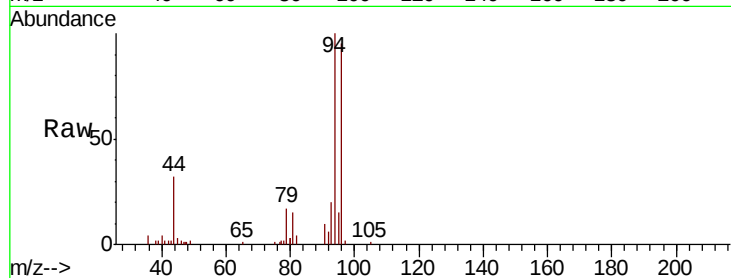
LOQ-SOIL-02-QT4-2020

Tot Ion: 94 Resp: 14071

Ion Ratio Lower Upper

94 100

96 95.0 74.7 112.1



#6

Chloroethane

Concen: 5.546 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016870.D

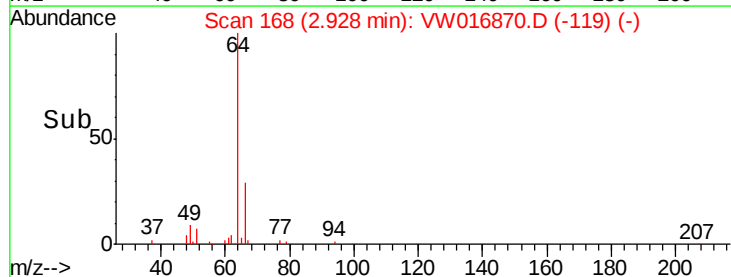
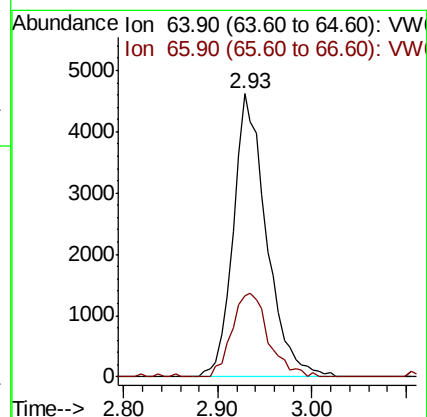
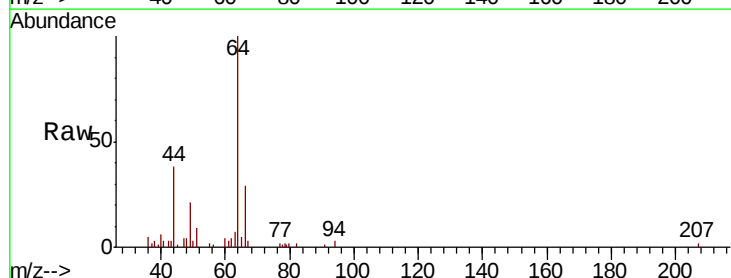
Acq: 09 Oct 2020 19:41

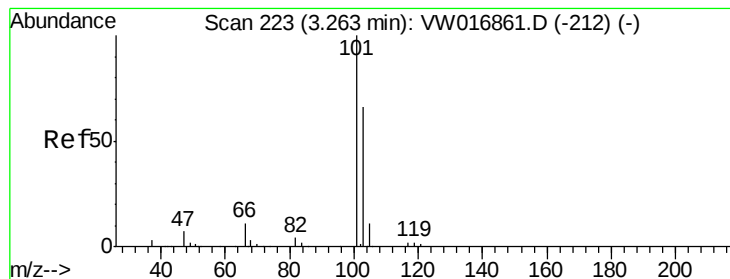
Tgt Ion: 64 Resp: 11335

Ion Ratio Lower Upper

64 100

66 28.7 25.0 37.6





#7

Trichlorofluoromethane

Concen: 5.095 ug/l

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

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ClientSampleId :

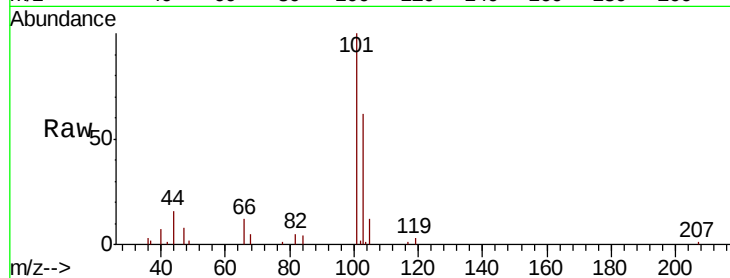
LOQ-SOIL-02-QT4-2020

Tot Ion:101 Resp: 11914

Ion Ratio Lower Upper

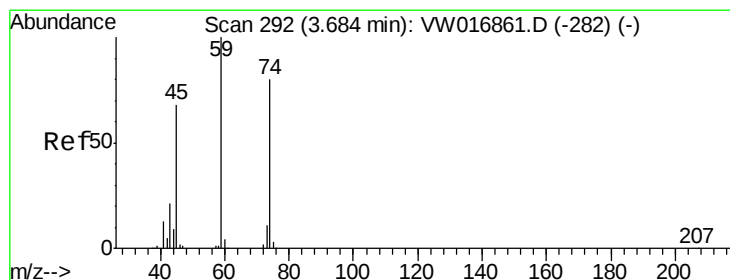
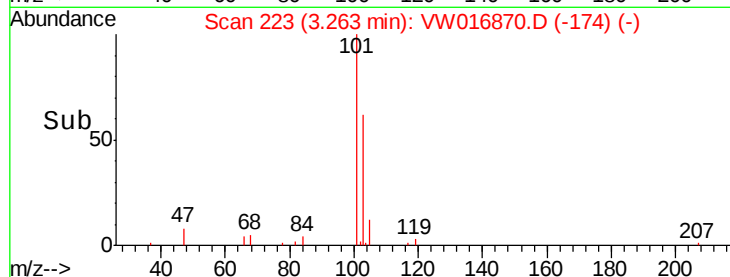
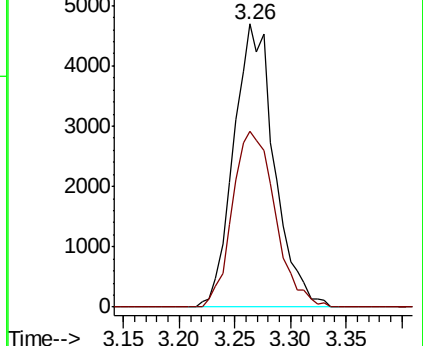
101 100

103 62.1 52.6 79.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.441 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW016870.D

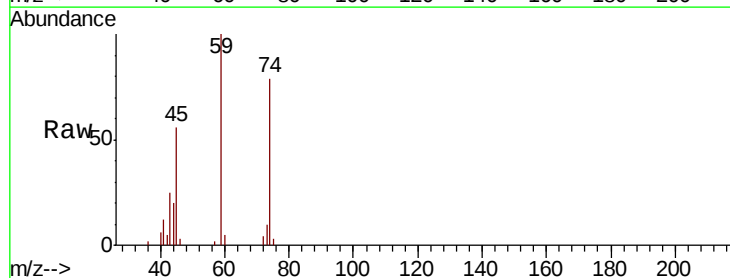
Acq: 09 Oct 2020 19:41

Tgt Ion: 74 Resp: 7947

Ion Ratio Lower Upper

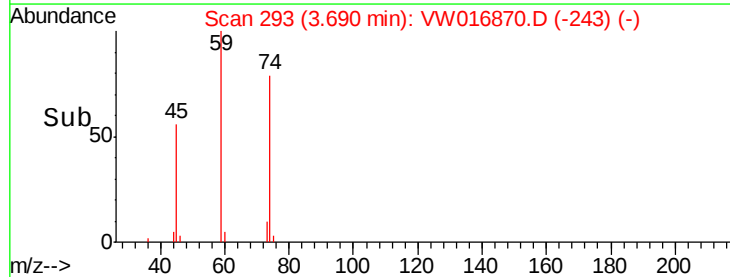
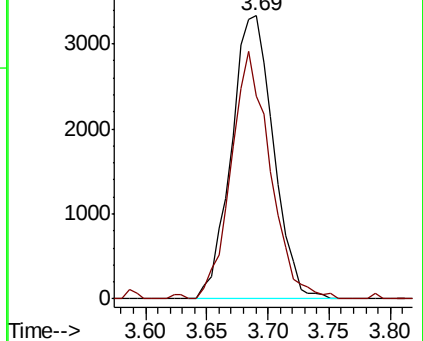
74 100

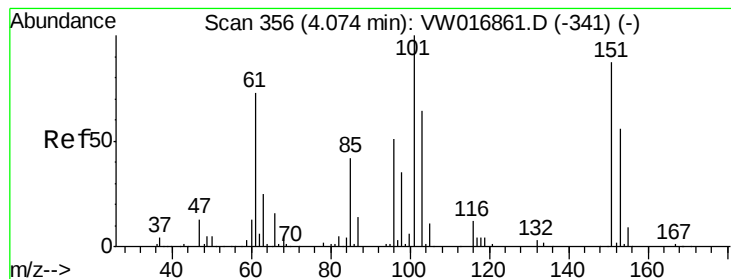
45 81.2 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.398 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT4-2020

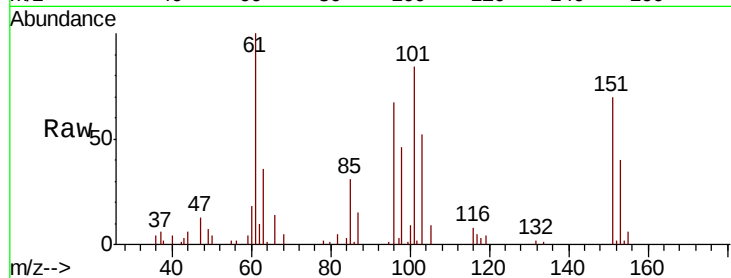
Tot Ion:101 Resp: 16997

Ion Ratio Lower Upper

101 100

85 41.3 33.2 49.8

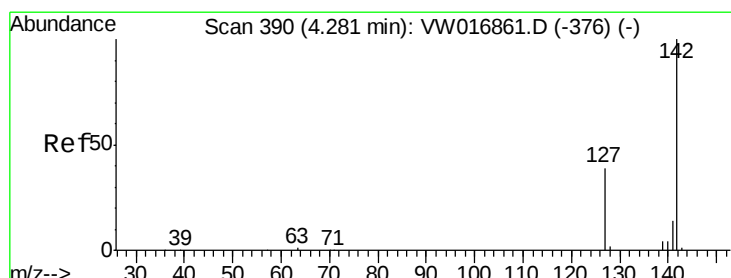
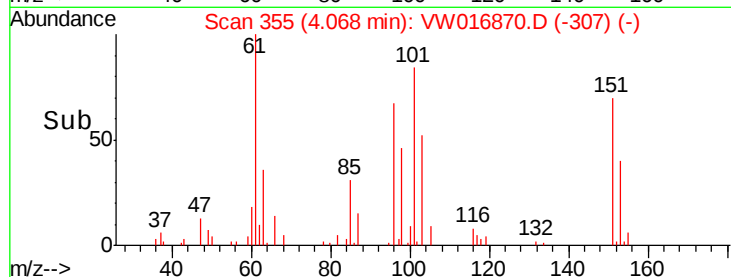
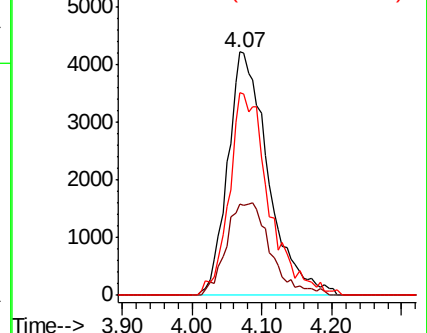
151 81.3 66.6 100.0



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: 5.466 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

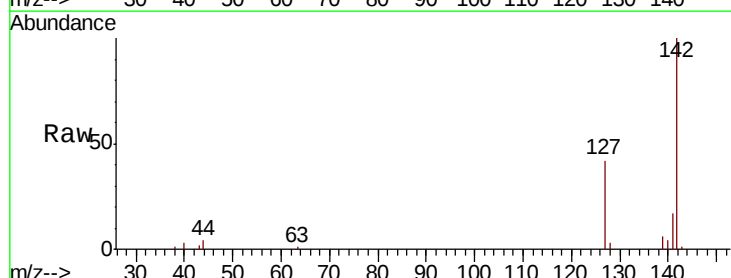
Tgt Ion:142 Resp: 27513

Ion Ratio Lower Upper

142 100

127 41.0 32.4 48.6

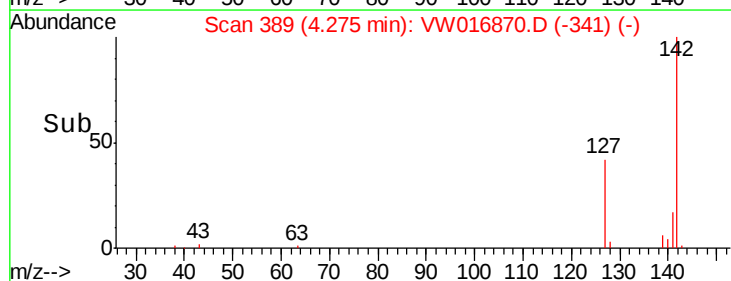
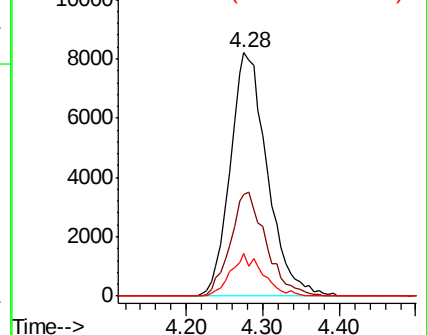
141 15.2 11.4 17.0

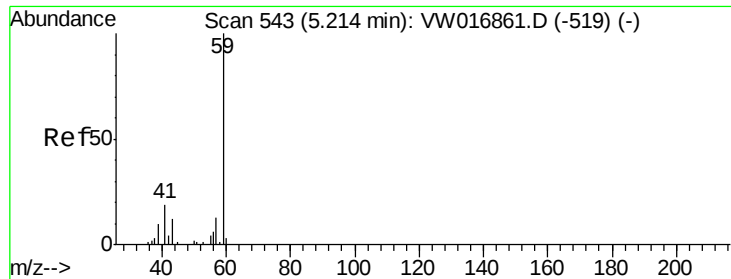


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



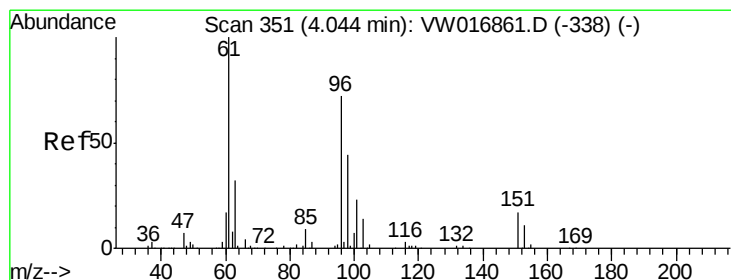
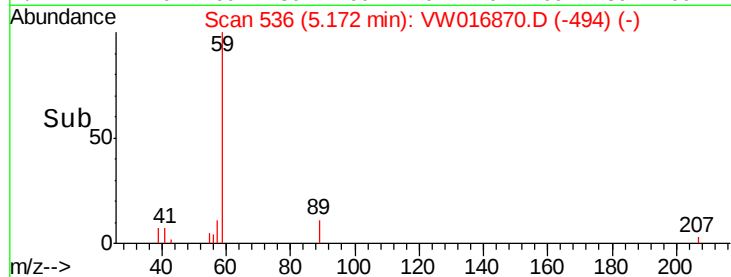
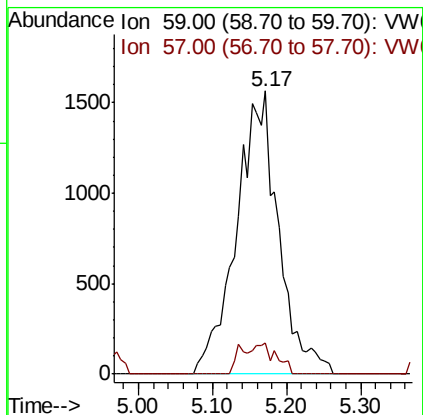
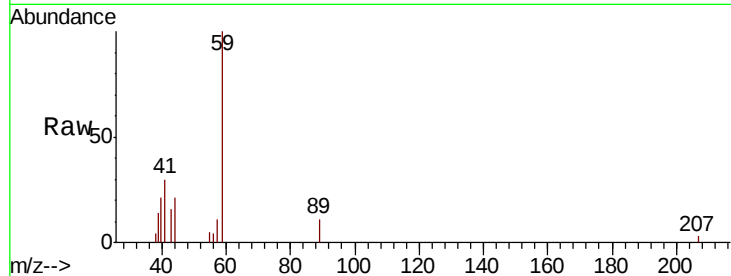


#11

Tert butyl alcohol
Concen: 41.847 ug/l
RT: 5.17 min Scan# 536
Delta R.T. -0.04 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

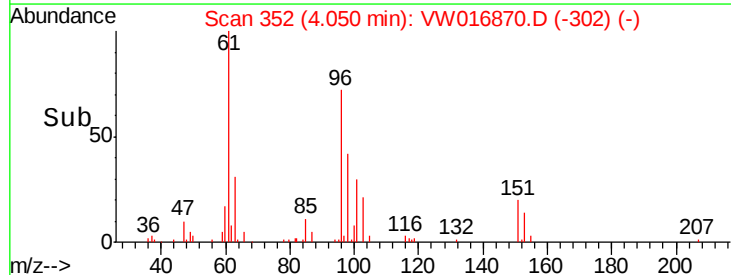
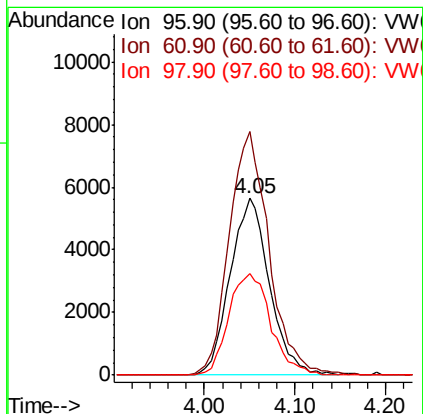
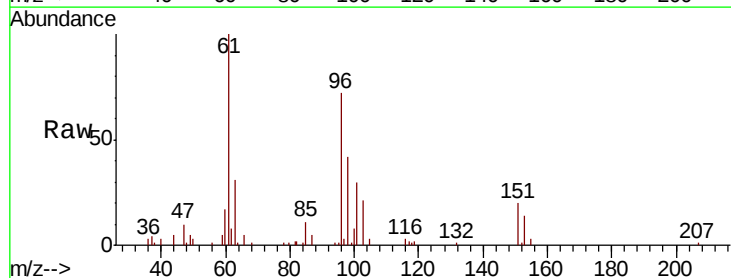
Tot Ion: 59 Resp: 6178
Ion Ratio Lower Upper
59 100
57 6.1 4.7 7.1

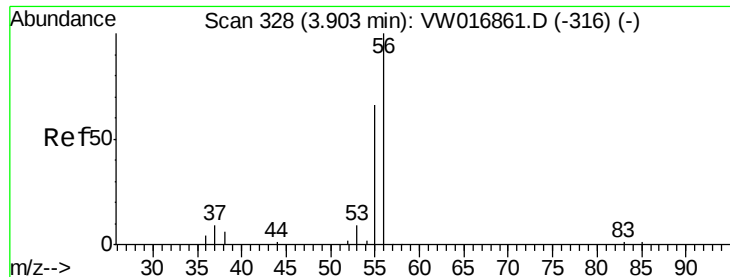


#12

1,1-Dichloroethene
Concen: 5.466 ug/l
RT: 4.05 min Scan# 352
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 96 Resp: 16989
Ion Ratio Lower Upper
96 100
61 138.0 111.7 167.5
98 57.5 49.0 73.4





#13

Acrolein

Concen: 29.085 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

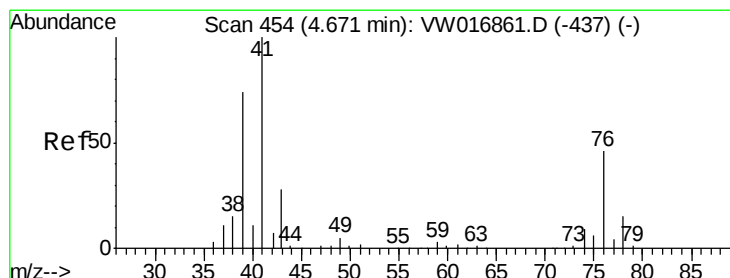
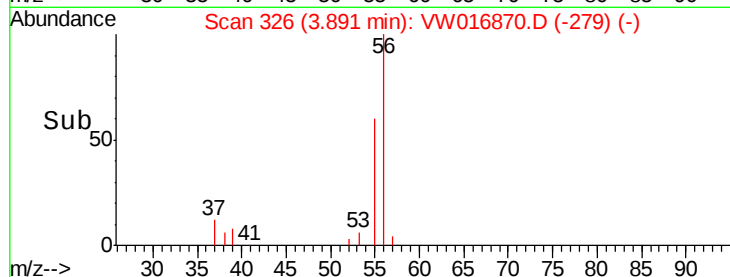
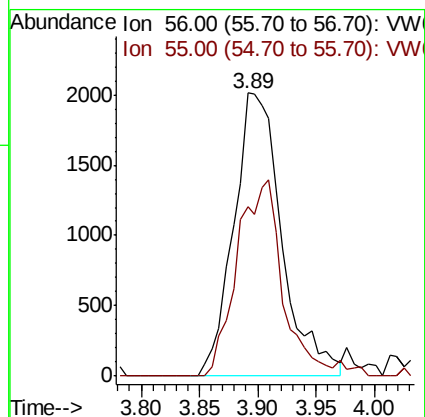
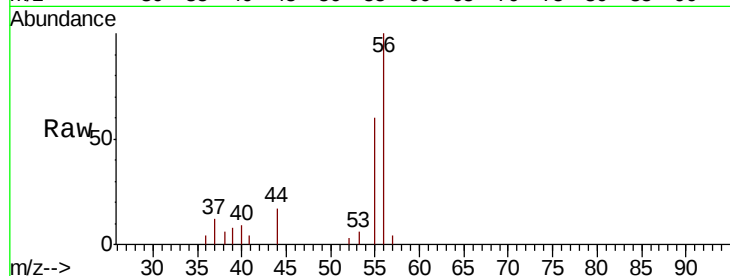
LOQ-SOIL-02-QT4-2020

Tot Ion: 56 Resp: 5805

Ion Ratio Lower Upper

56 100

55 65.0 55.9 83.9



#14

Allyl chloride

Concen: 5.270 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

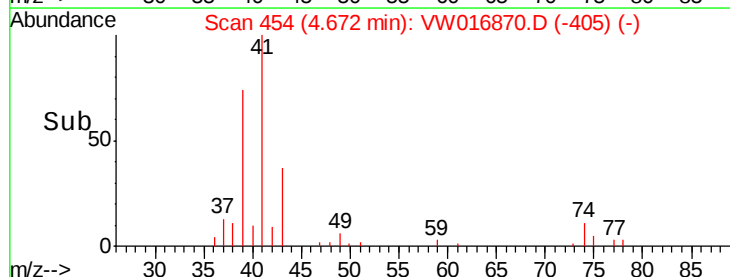
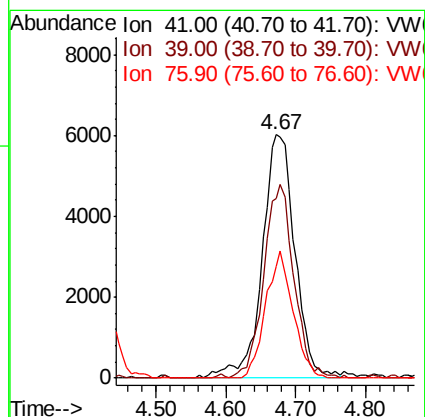
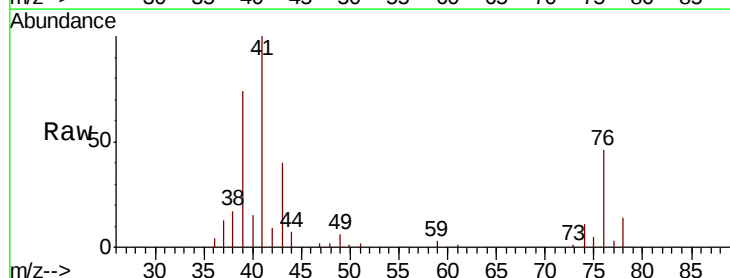
Tgt Ion: 41 Resp: 19606

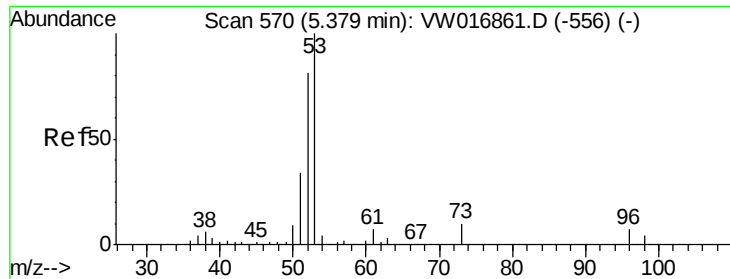
Ion Ratio Lower Upper

41 100

39 73.0 57.8 86.8

76 43.4 35.1 52.7

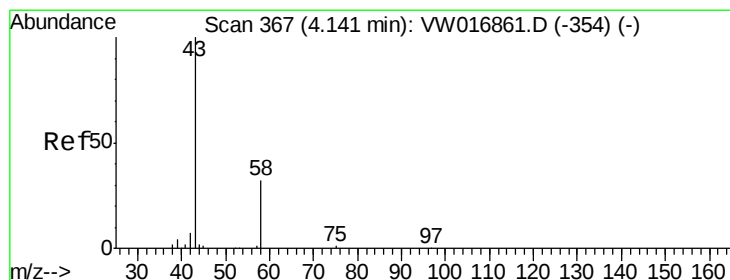
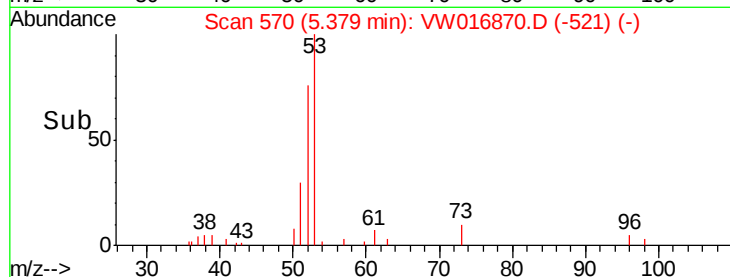
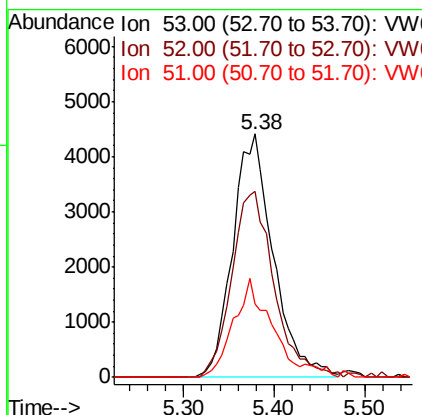
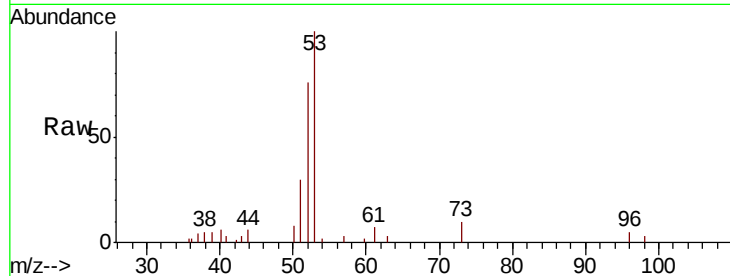




#15
 Acrylonitrile
 Concen: 28.209 ug/l
 RT: 5.38 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

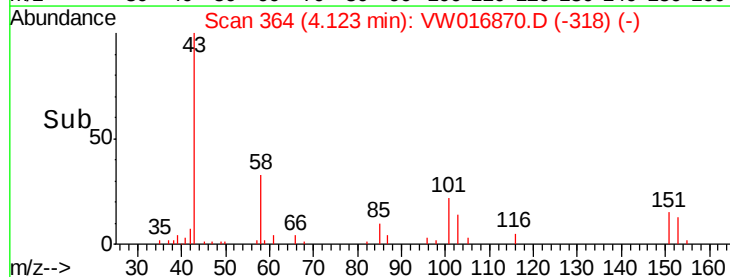
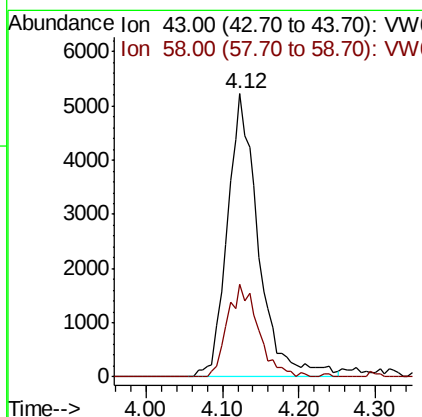
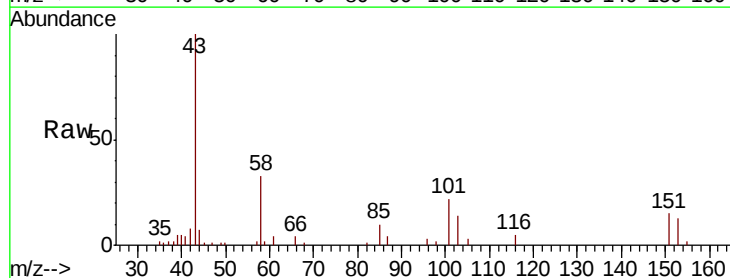
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

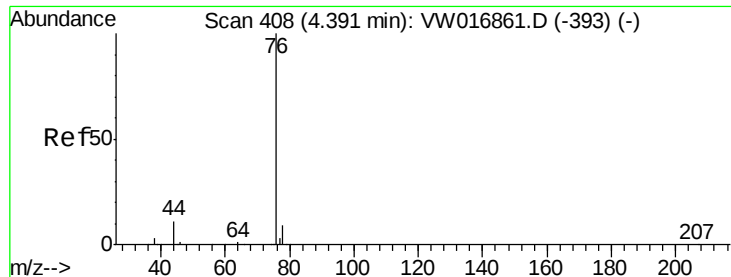
Tot Ion: 53 Resp: 13714
 Ion Ratio Lower Upper
 53 100
 52 79.5 65.0 97.4
 51 39.2 29.1 43.7



#16
 Acetone
 Concen: 30.101 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. -0.02 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion: 43 Resp: 14727
 Ion Ratio Lower Upper
 43 100
 58 32.9 25.7 38.5





#17

Carbon Disulfide

Concen: 5.248 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

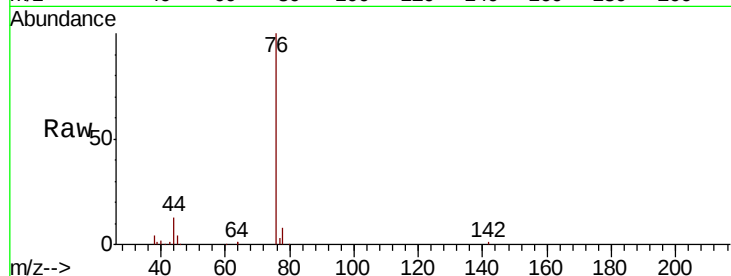
LOQ-SOIL-02-QT4-2020

Tot Ion: 76 Resp: 43391

Ion Ratio Lower Upper

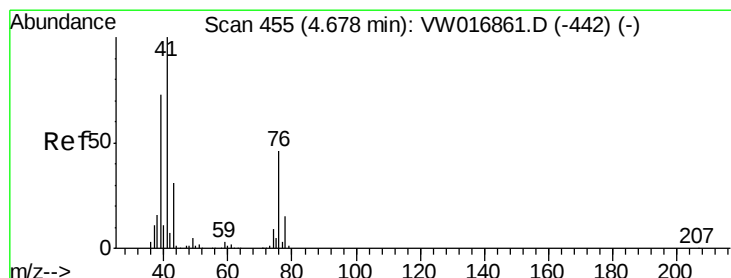
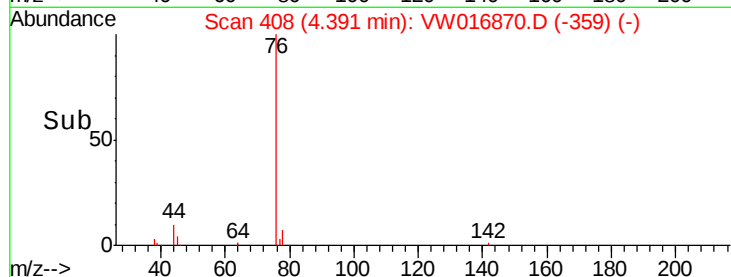
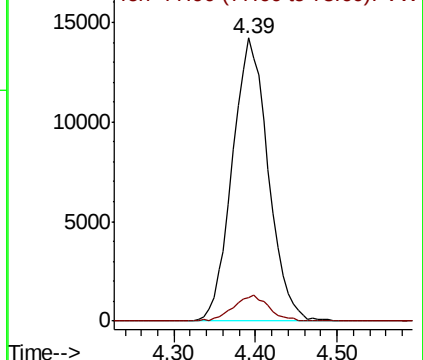
76 100

78 8.5 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 7.011 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW016870.D

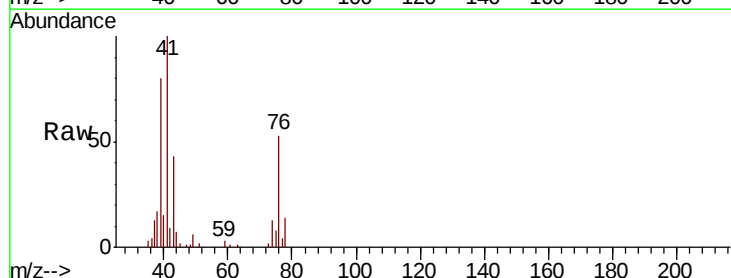
Acq: 09 Oct 2020 19:41

Tgt Ion: 43 Resp: 7868

Ion Ratio Lower Upper

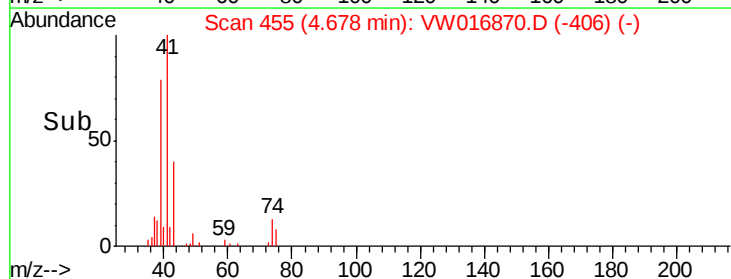
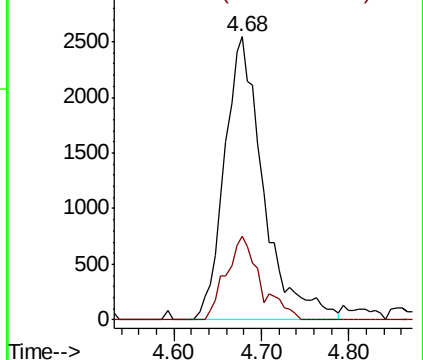
43 100

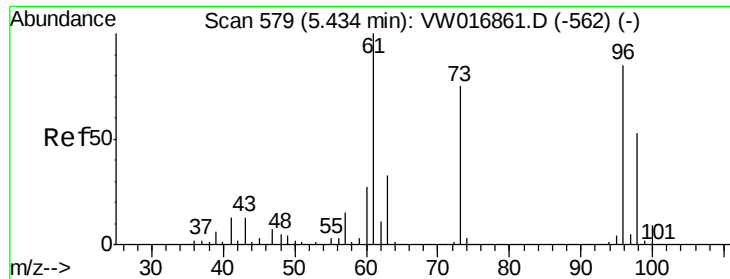
74 26.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

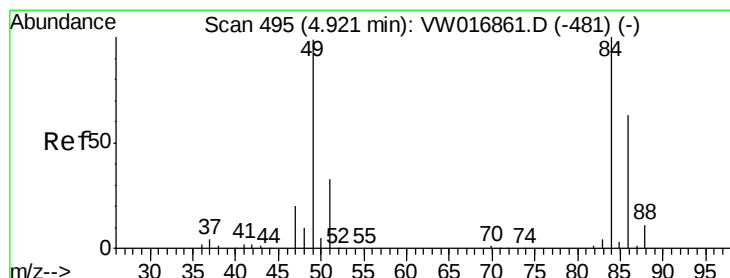
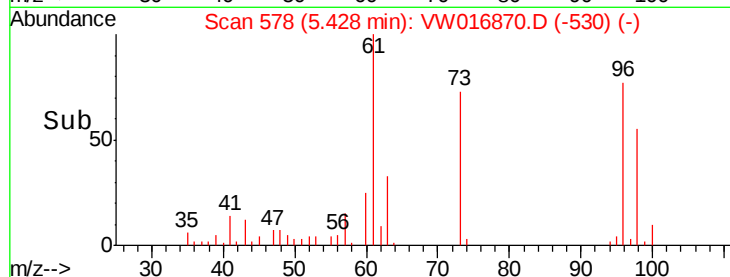
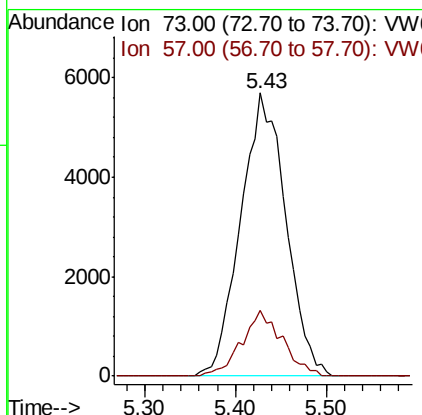
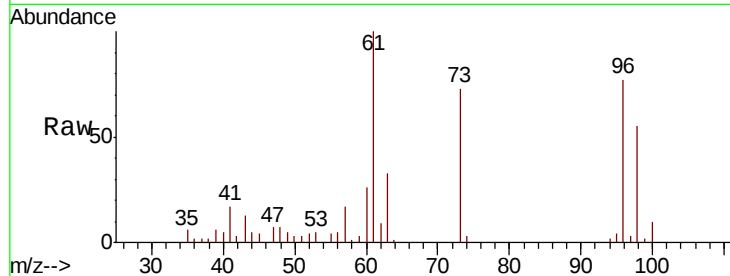




#19
Methvl tert-butvl Ether
Concen: 5.856 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

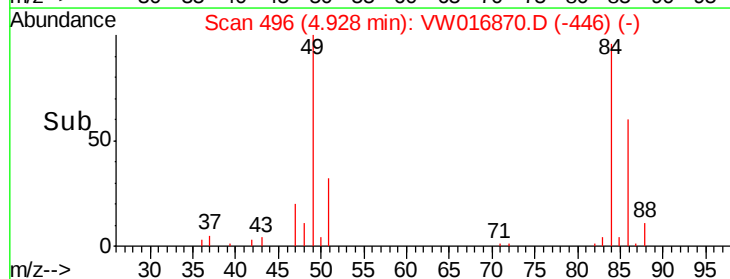
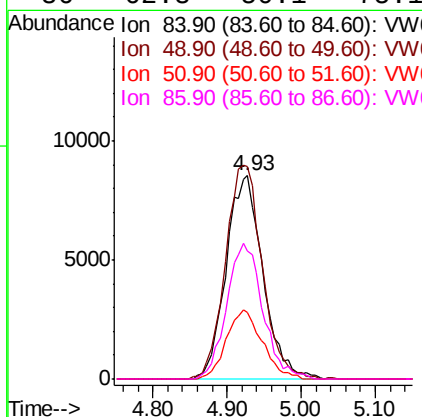
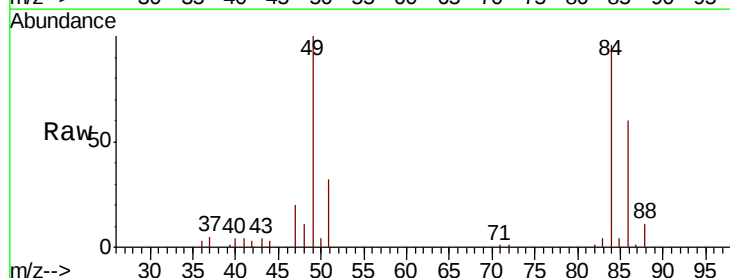
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

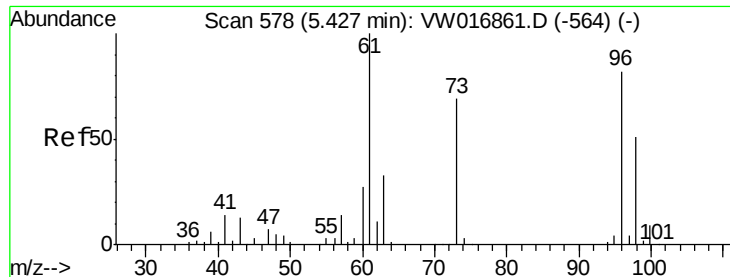
Tot Ion: 73 Resp: 19616
Ion Ratio Lower Upper
73 100
57 23.3 16.1 24.1



#20
Methylene Chloride
Concen: 7.612 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 84 Resp: 29513
Ion Ratio Lower Upper
84 100
49 104.6 79.0 118.6
51 33.0 26.1 39.1
86 62.8 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 5.399 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

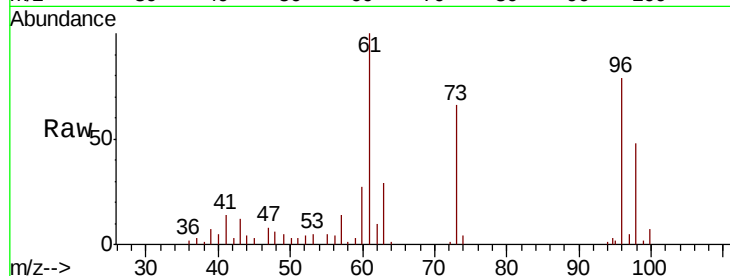
Tot Ion: 96 Resp: 18838

Ion Ratio Lower Upper

96 100

61 125.8 97.4 146.0

98 60.9 49.4 74.0

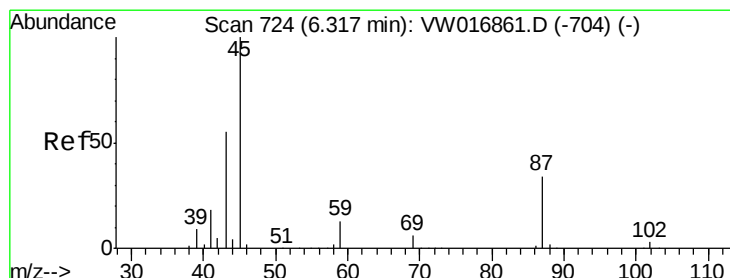
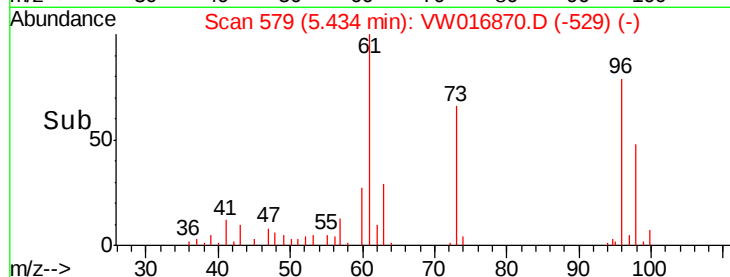
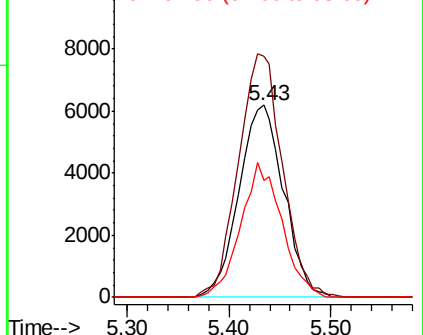


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 5.457 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Tgt Ion: 45 Resp: 36897

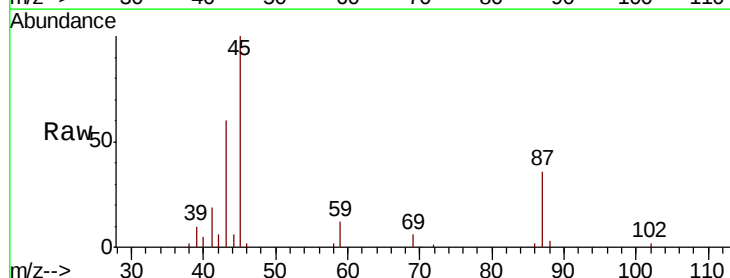
Ion Ratio Lower Upper

45 100

43 59.0 43.8 65.8

87 36.0 27.6 41.4

59 12.2 10.8 16.2



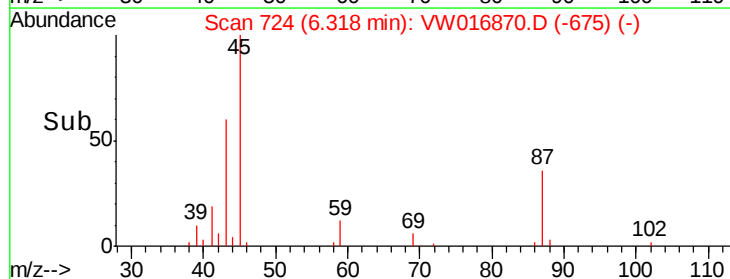
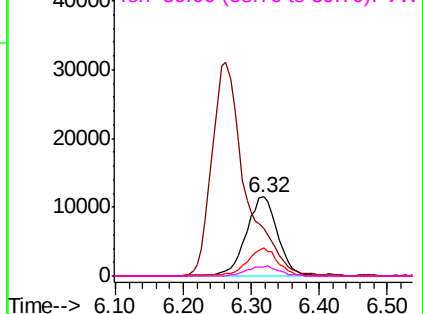
Abundance

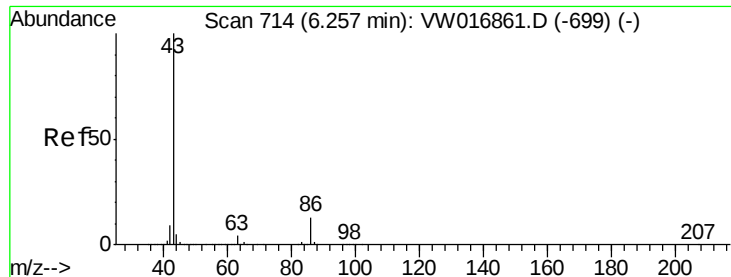
Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 24.569 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

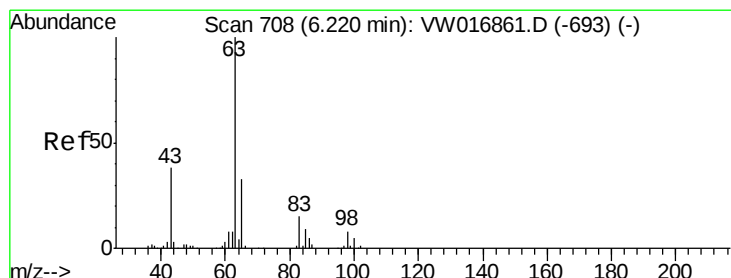
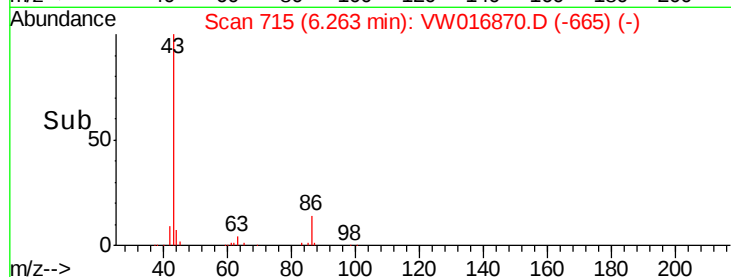
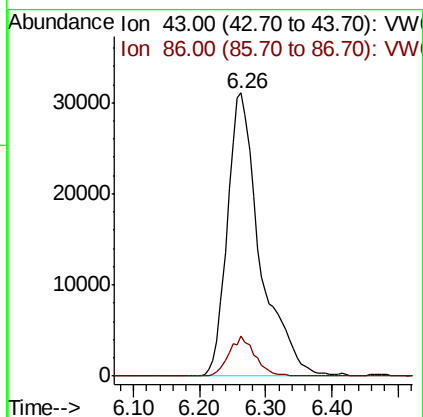
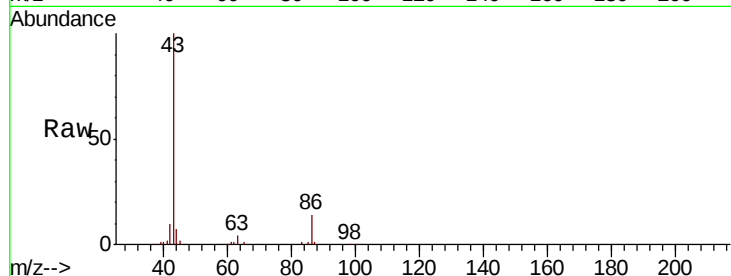
LOQ-SOIL-02-QT4-2020

Tot Ion: 43 Resp: 106443

Ion Ratio Lower Upper

43 100

86 14.2 10.2 15.4



#24

1,1-Dichloroethane

Concen: 5.469 ug/l

RT: 6.23 min Scan# 709

Delta R.T. 0.01 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

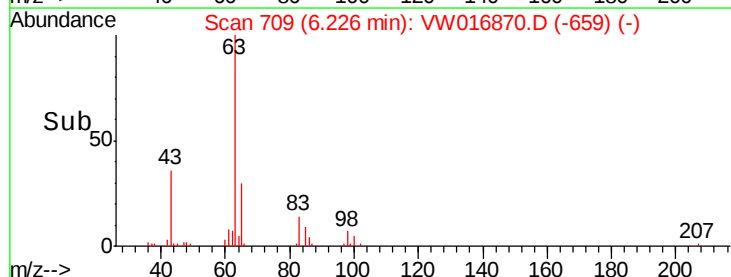
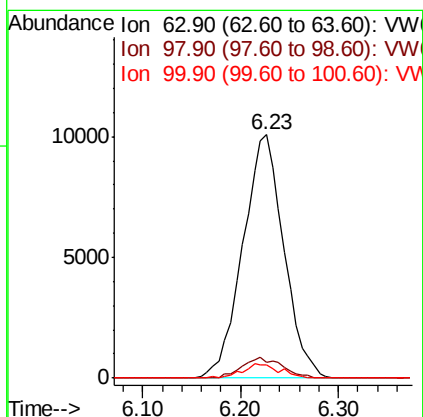
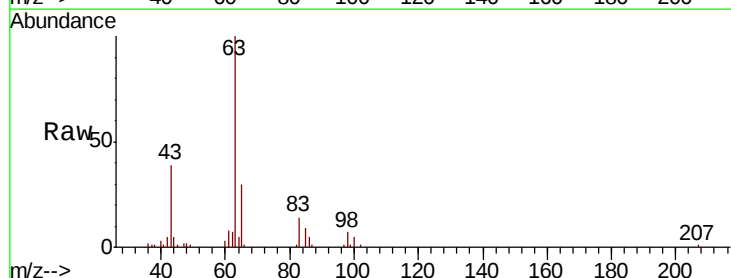
Tgt Ion: 63 Resp: 29319

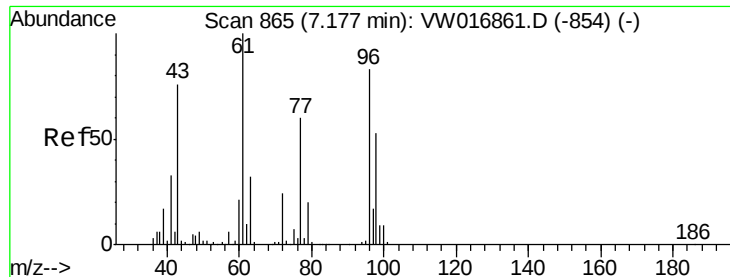
Ion Ratio Lower Upper

63 100

98 6.7 4.2 12.6

100 5.5 2.6 7.8





#25

2-Butanone

Concen: 28.614 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

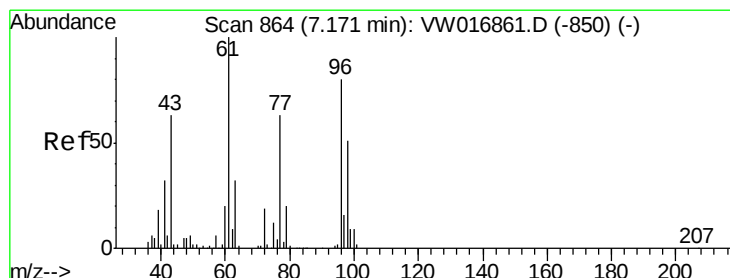
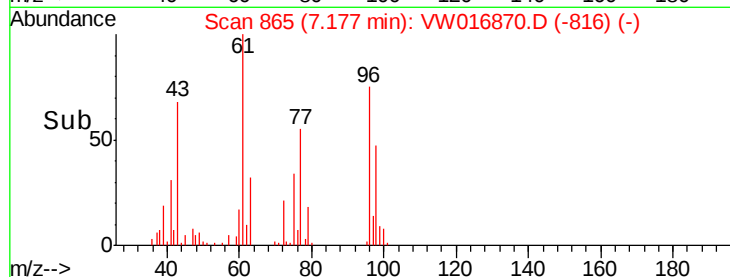
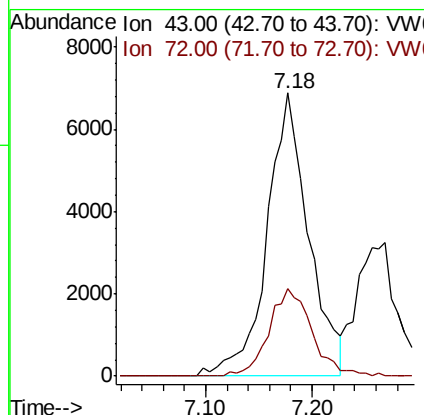
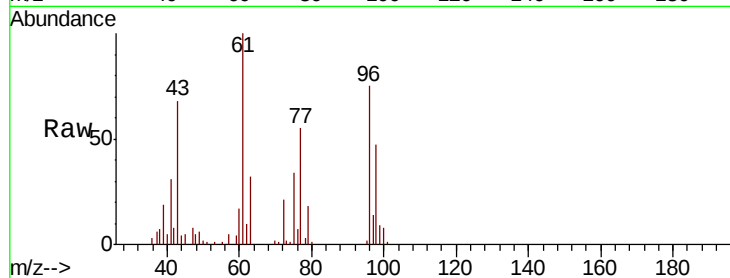
LOQ-SOIL-02-QT4-2020

Tot Ion: 43 Resp: 18664

Ion Ratio Lower Upper

43 100

72 30.9 25.4 38.2



#26

2,2-Dichloropropane

Concen: 5.833 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016870.D

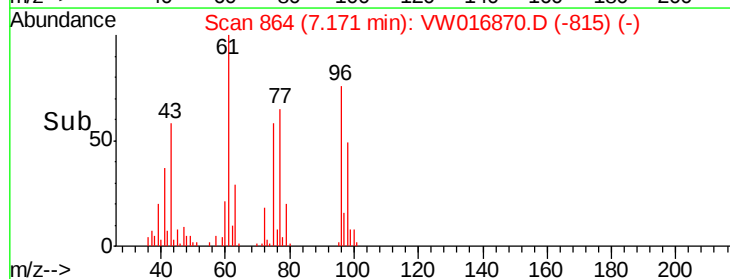
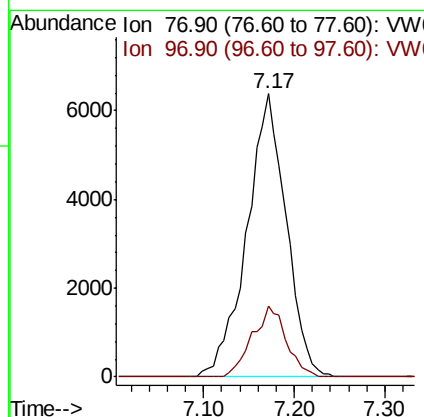
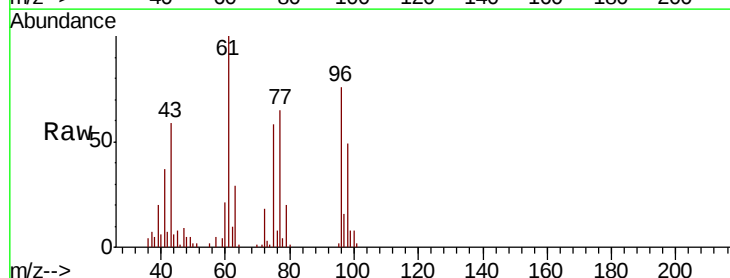
Acq: 09 Oct 2020 19:41

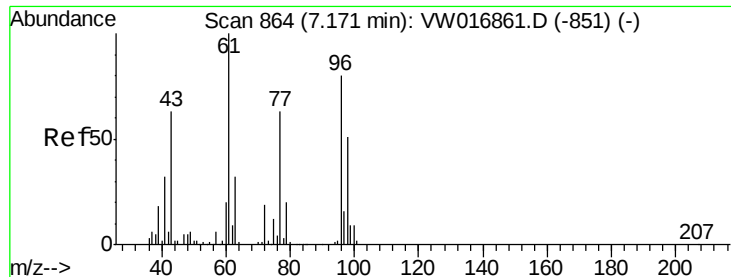
Tgt Ion: 77 Resp: 19134

Ion Ratio Lower Upper

77 100

97 21.5 12.4 37.4



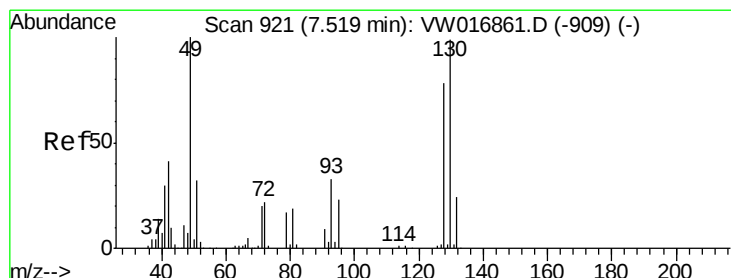
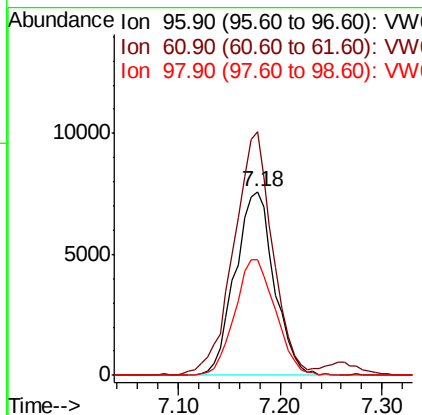
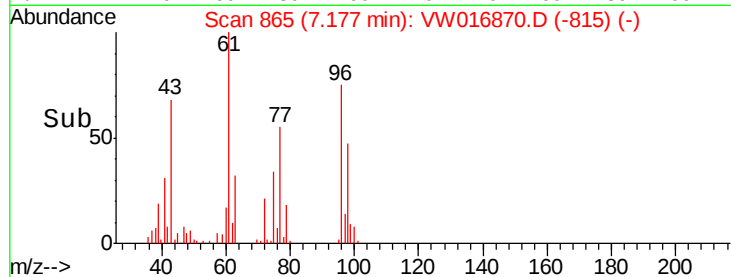
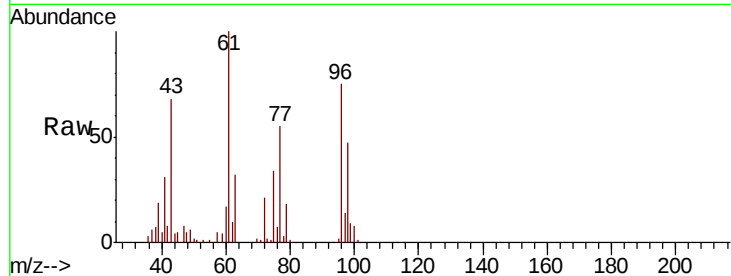


#27

cis-1,2-Dichloroethene
Concen: 5.388 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

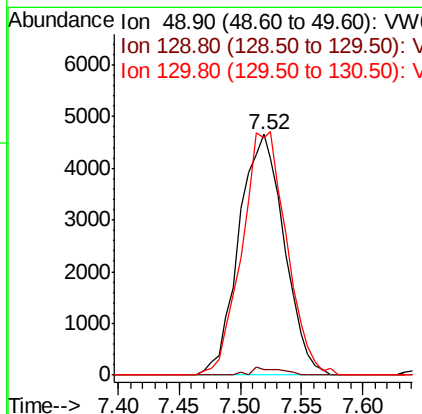
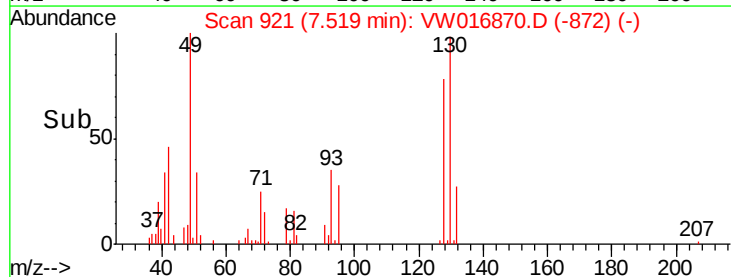
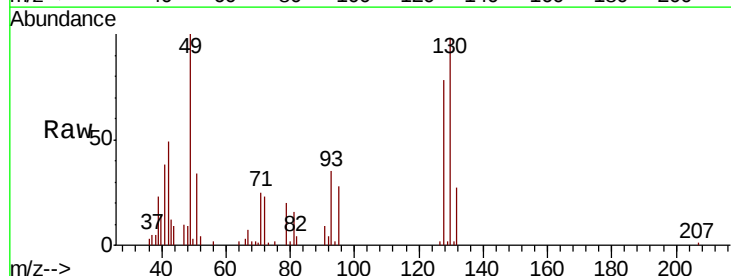
Tot Ion: 96 Resp: 20135
Ion Ratio Lower Upper
96 100
61 132.7 0.0 249.6
98 65.5 0.0 129.4

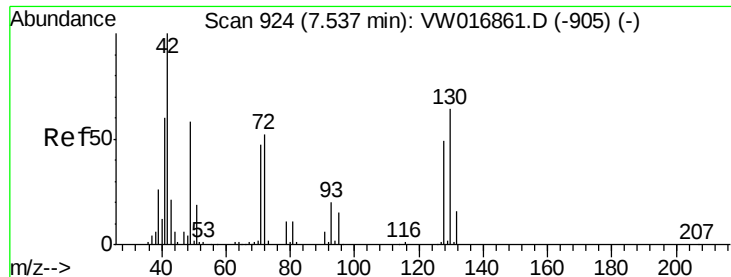


#28

Bromochloromethane
Concen: 5.569 ug/l
RT: 7.52 min Scan# 921
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 49 Resp: 11949
Ion Ratio Lower Upper
49 100
129 2.1 0.0 4.8
130 100.0 81.3 121.9

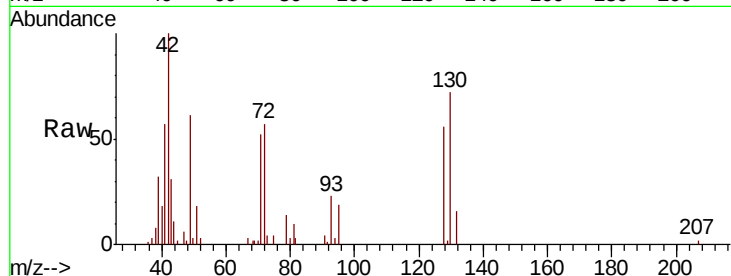




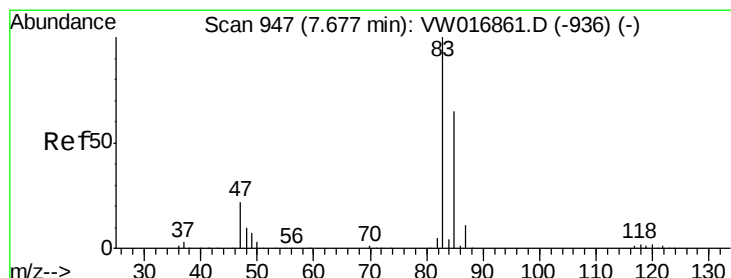
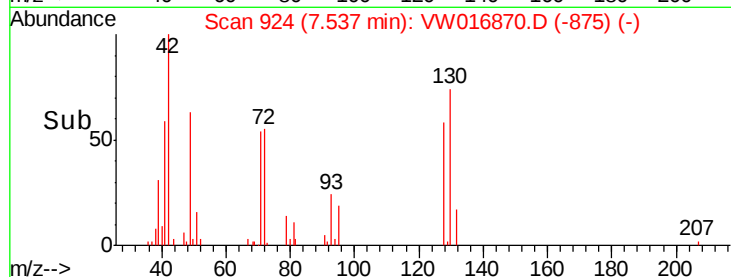
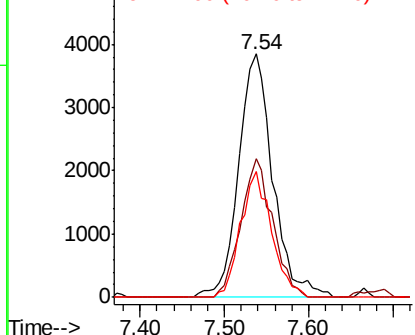
#29
Tetrahydrofuran
Concen: 28.863 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

Tot Ion: 42 Resp: 10545
Ion Ratio Lower Upper
42 100
72 53.0 42.0 63.0
71 46.5 39.0 58.6

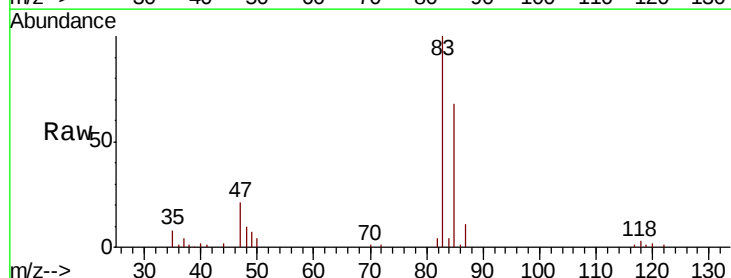


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

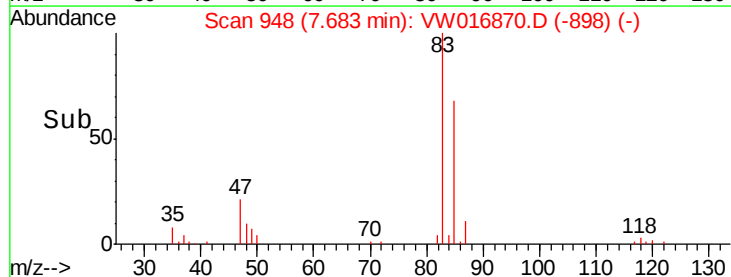
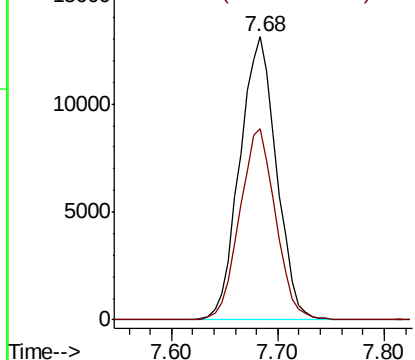


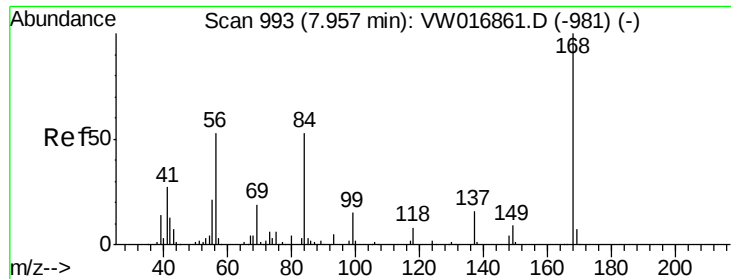
#30
Chloroform
Concen: 5.435 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 83 Resp: 31677
Ion Ratio Lower Upper
83 100
85 67.7 51.7 77.5



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

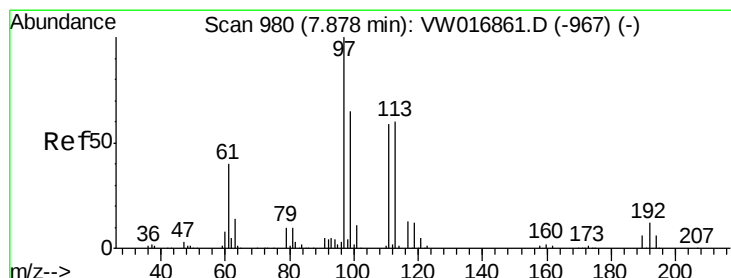
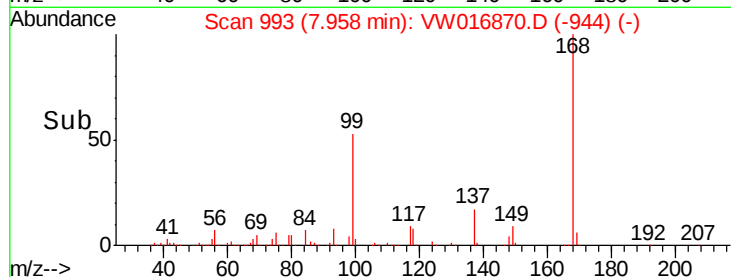
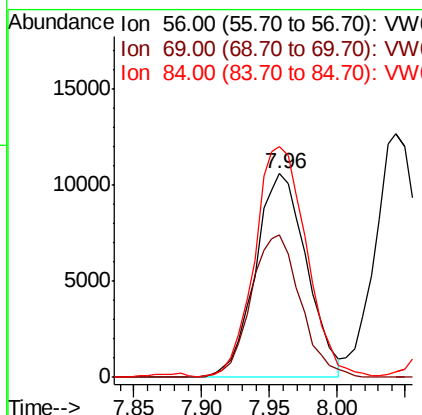
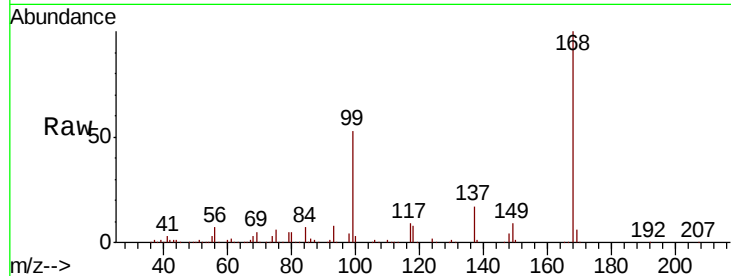




#31
Cyclohexane
Concen: 6.076 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

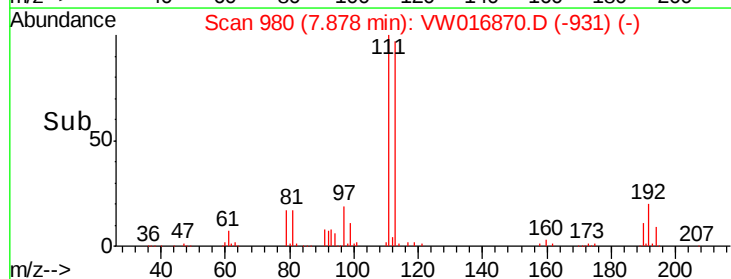
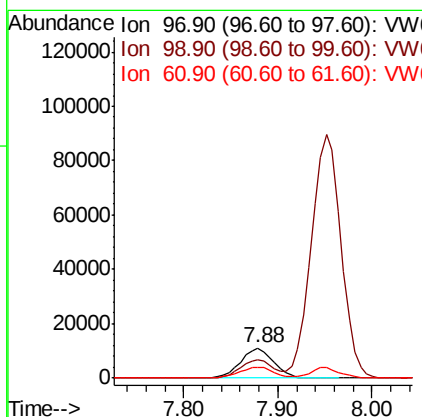
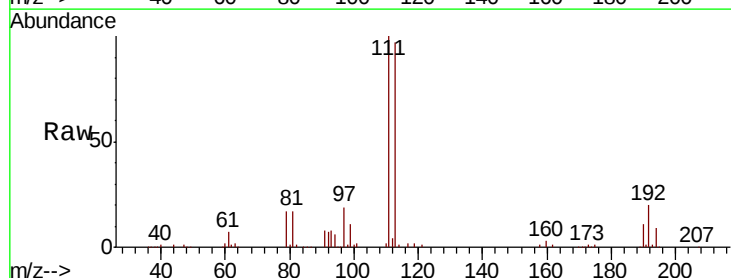
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

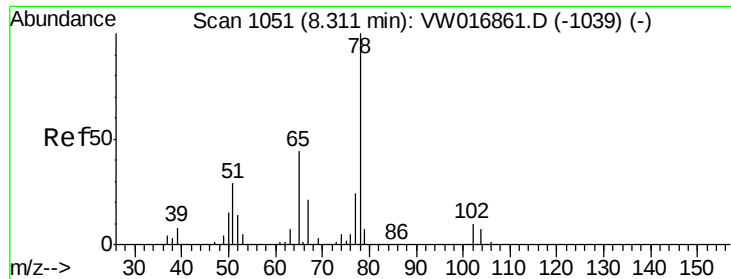
Tot Ion: 56 Resp: 27786
Ion Ratio Lower Upper
56 100
69 70.1 29.3 43.9#
84 112.2 80.5 120.7



#32
1,1,1-Trichloroethane
Concen: 5.484 ug/l
RT: 7.88 min Scan# 980
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 97 Resp: 26963
Ion Ratio Lower Upper
97 100
99 64.2 52.4 78.6
61 38.7 31.9 47.9





#33

1,2-Dichloroethane-d4

Concen: 54.672 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

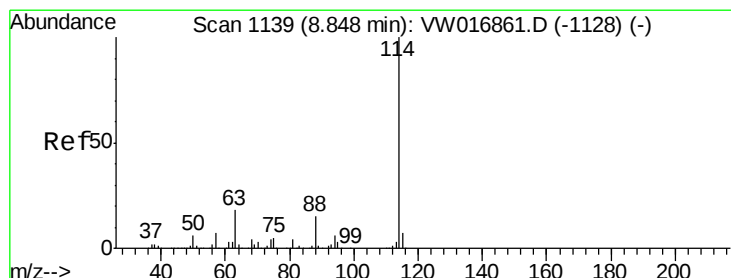
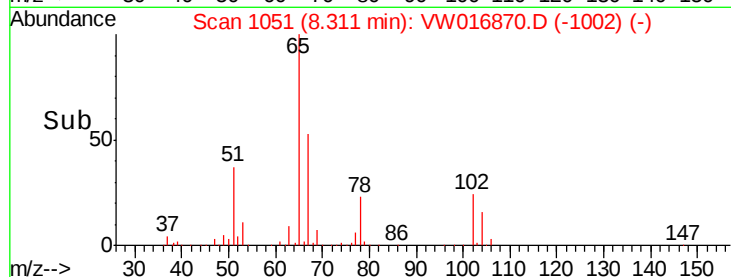
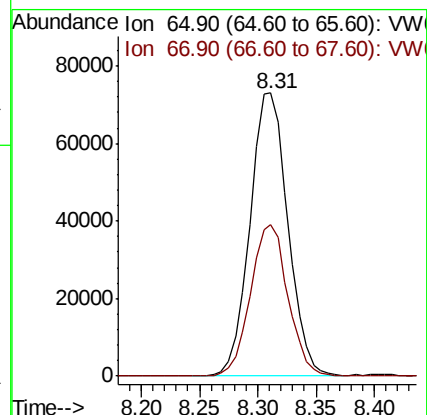
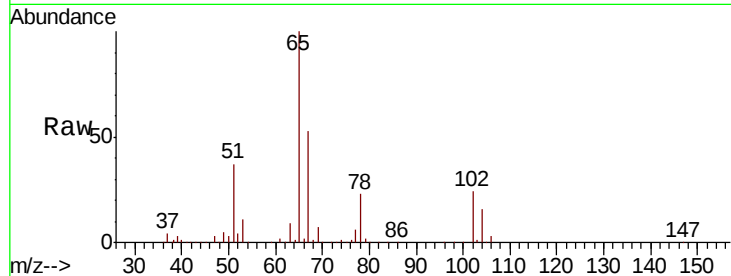
LOQ-SOIL-02-QT4-2020

Tot Ion: 65 Resp: 165156

Ion Ratio Lower Upper

65 100

67 52.8 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

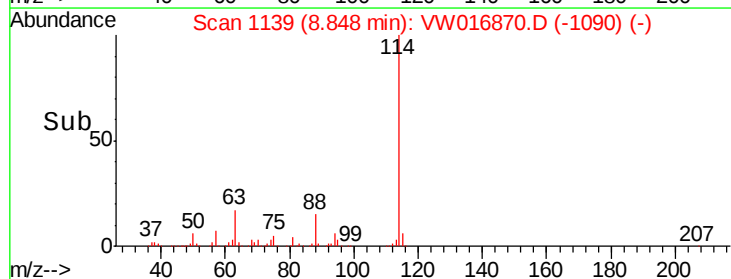
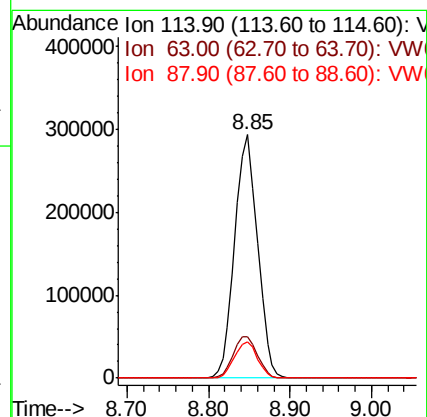
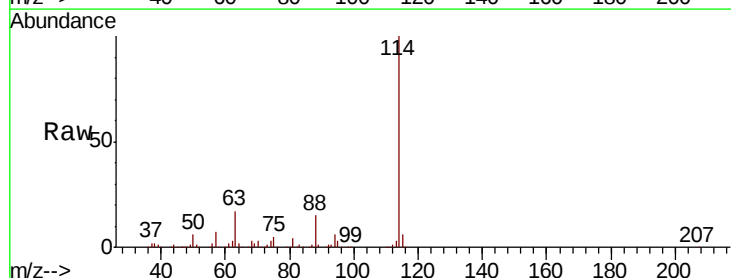
Tgt Ion: 114 Resp: 567242

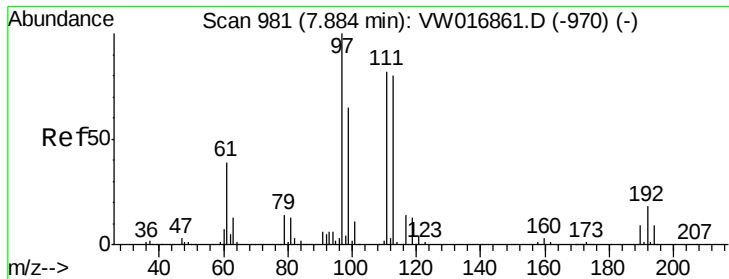
Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.6

88 14.6 0.0 30.4

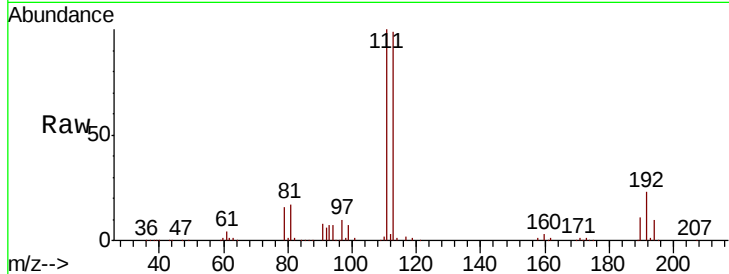




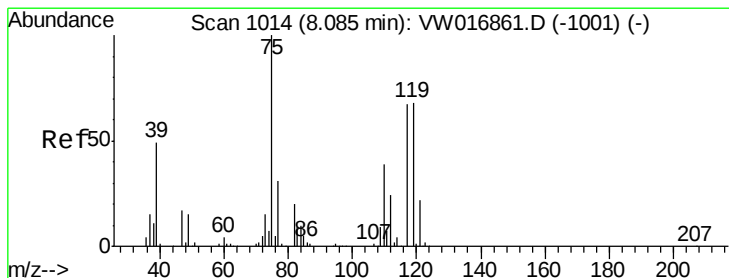
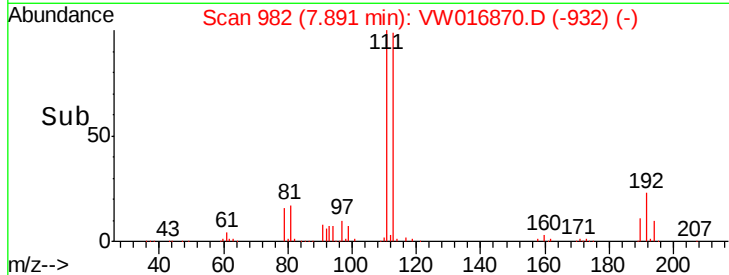
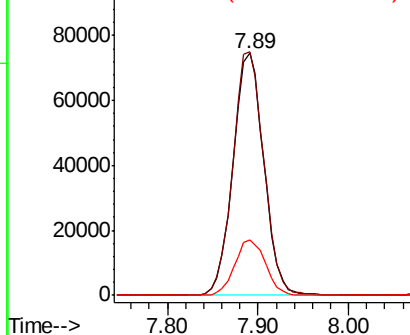
#35
 Dibromofluoromethane
 Concen: 50.840 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.4	122.2
192	22.9	17.8	26.8

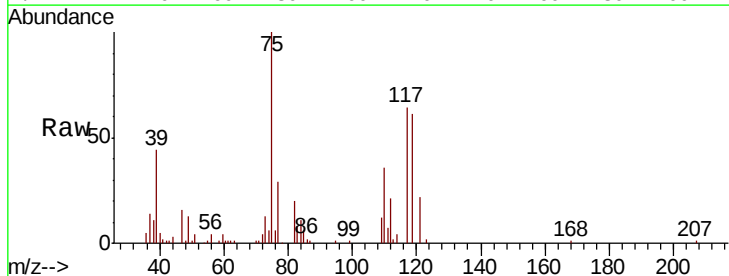


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

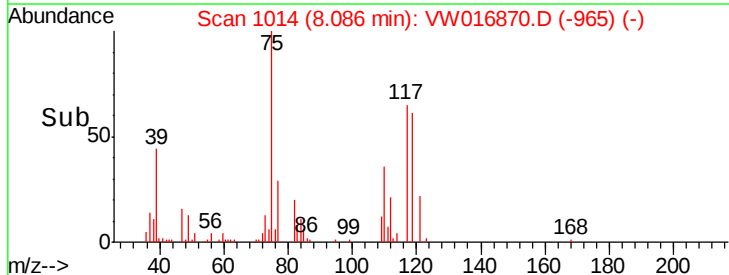
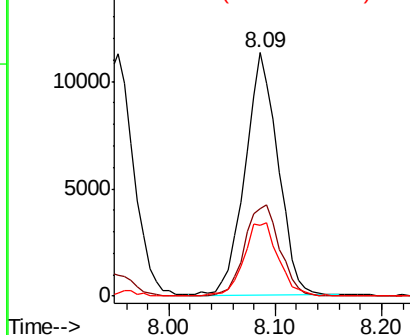


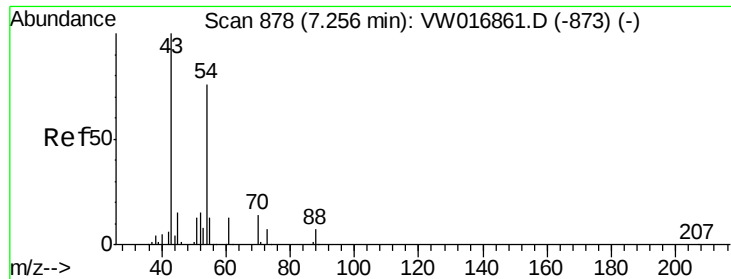
#36
 1,1-Dichloropropene
 Concen: 5.030 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.7	19.3	57.9
77	31.4	25.0	37.6



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

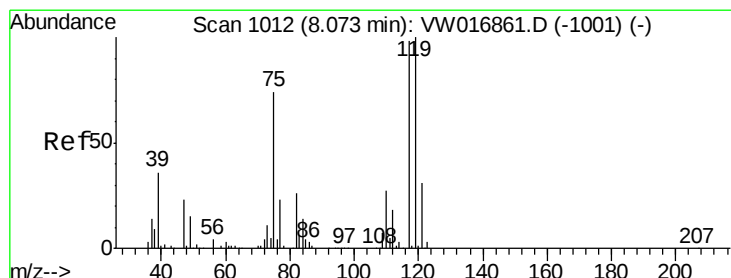
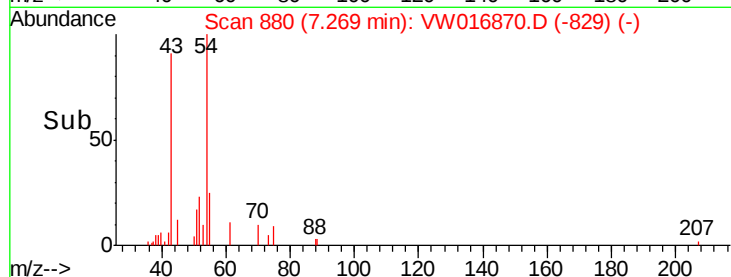
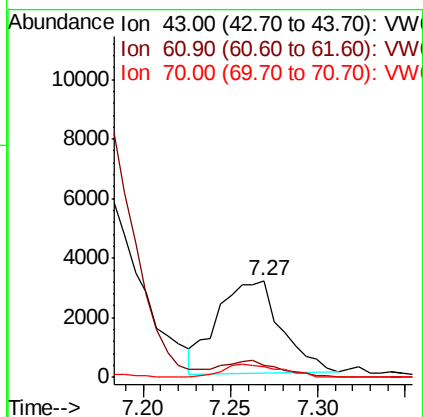
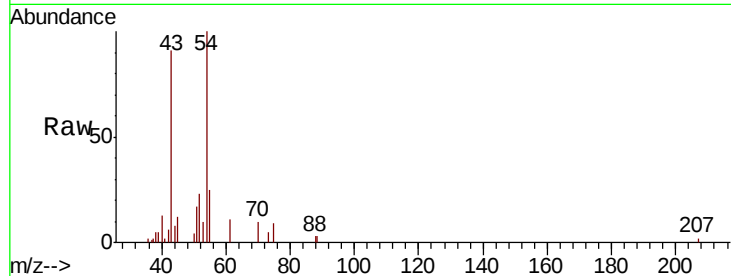




#37
Ethyl Acetate
Concen: 4.889 ug/l
RT: 7.27 min Scan# 880
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

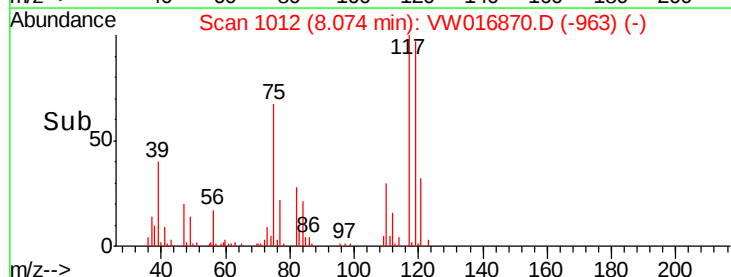
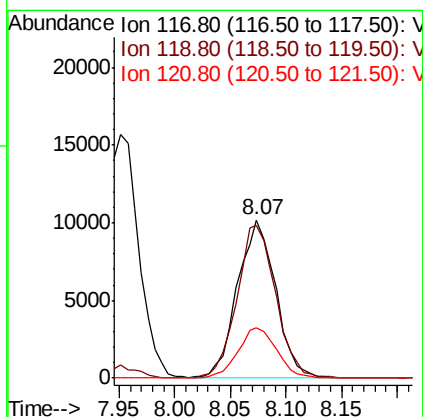
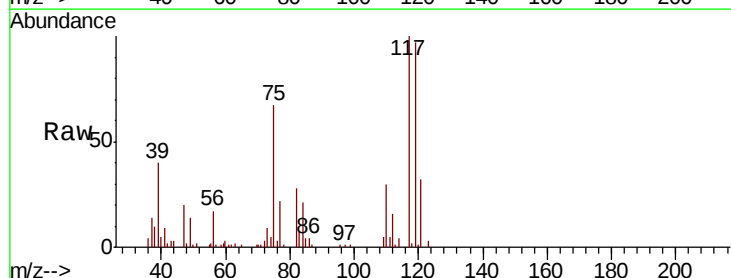
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

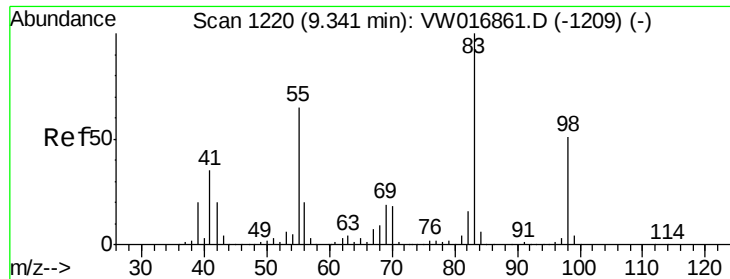
Tot Ion: 43 Resp: 7833
Ion Ratio Lower Upper
43 100
61 15.7 12.0 18.0
70 12.9 9.9 14.9



#38
Carbon Tetrachloride
Concen: 4.760 ug/l
RT: 8.07 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 117 Resp: 24269
Ion Ratio Lower Upper
117 100
119 96.8 81.6 122.4
121 31.8 25.7 38.5

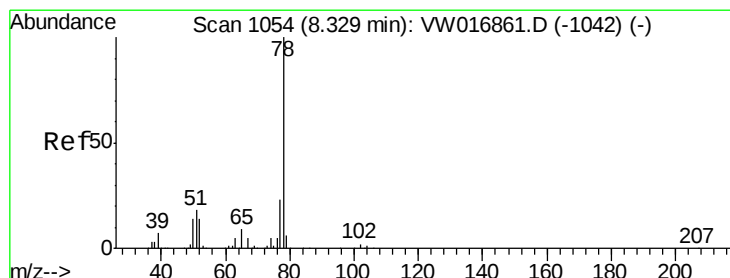
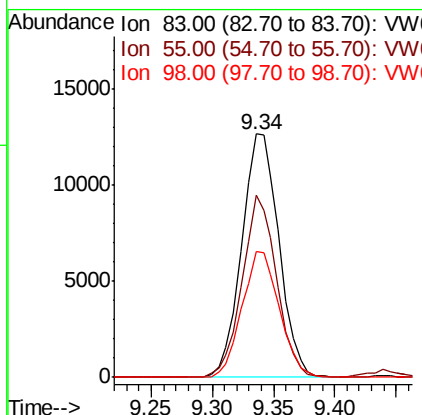
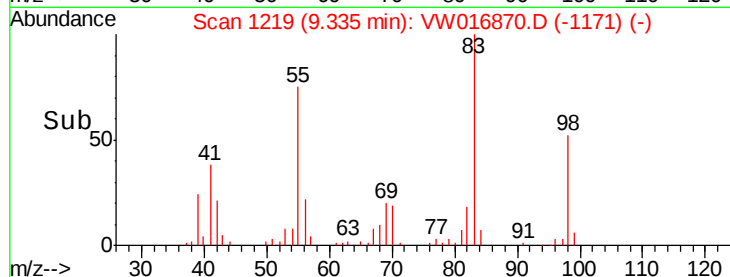
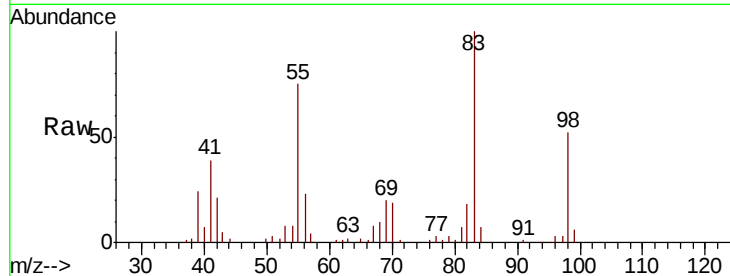




#39
Methvlcvclohexane
Concen: 4.780 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

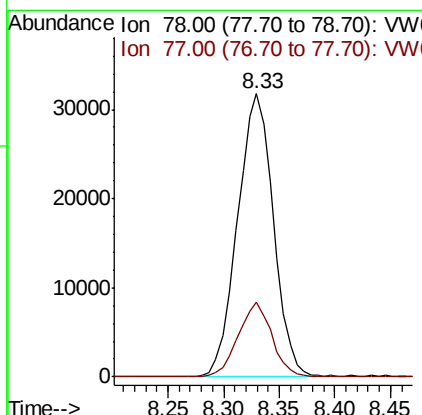
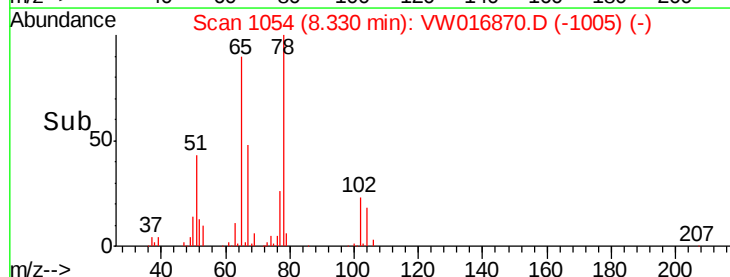
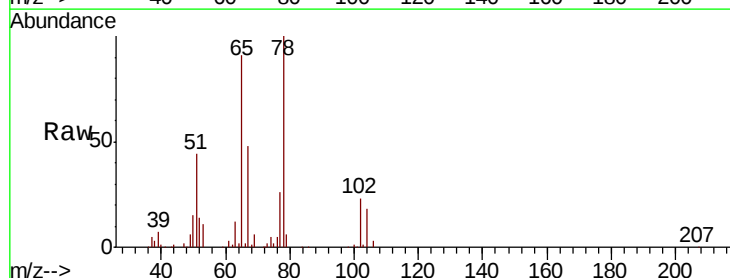
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

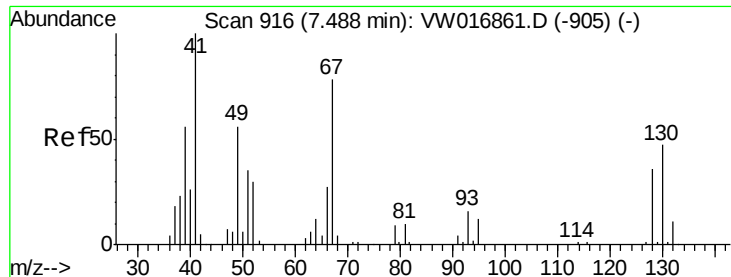
Tot Ion: 83 Resp: 26728
Ion Ratio Lower Upper
83 100
55 74.8 51.7 77.5
98 51.7 41.0 61.4



#40
Benzene
Concen: 5.191 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 78 Resp: 70926
Ion Ratio Lower Upper
78 100
77 26.4 18.5 27.7

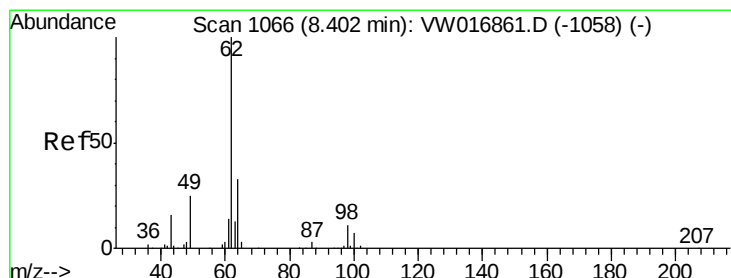
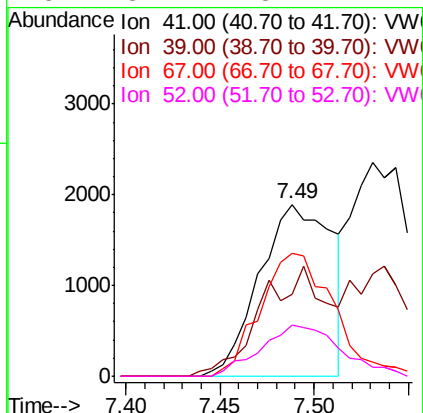
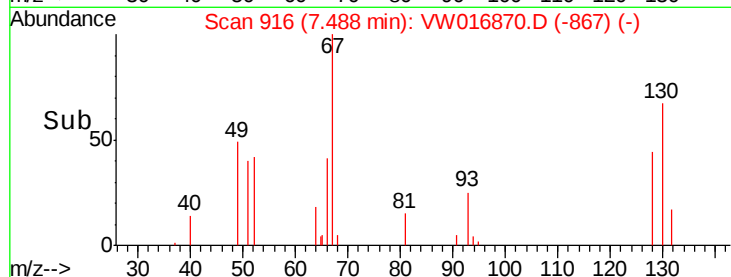
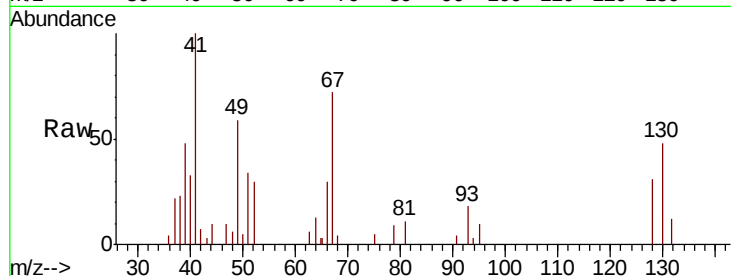




#41
Methacrylonitrile
Concen: 5.338 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

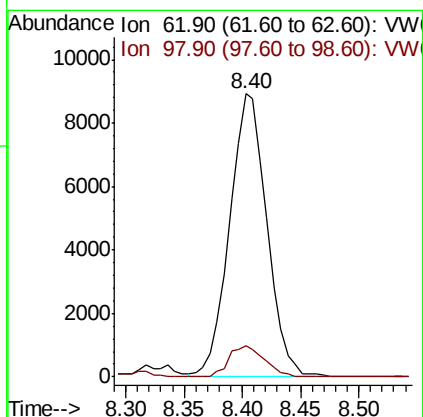
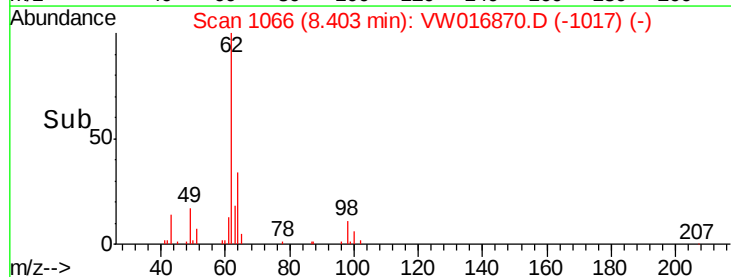
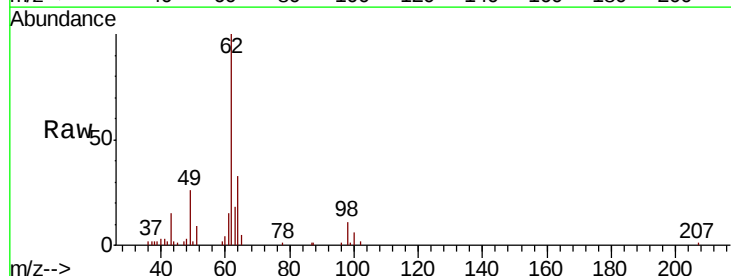
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

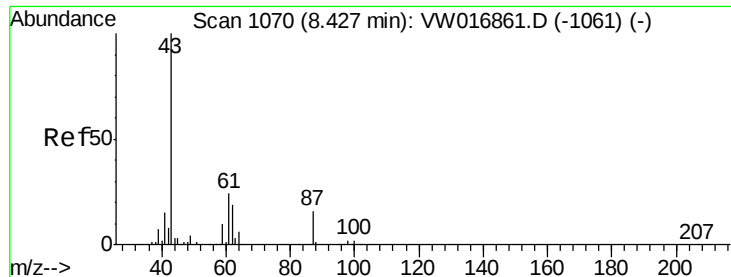
Tot Ion:	41	Resp:	5068
Ion	Ratio	Lower	Upper
41	100		
39	58.0	47.0	70.6
67	72.1	68.6	102.8
52	32.7	28.1	42.1



#42
1,2-Dichloroethane
Concen: 5.308 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:	62	Resp:	19840
Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	21.0





#43

Isopropyl Acetate

Concen: 5.224 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

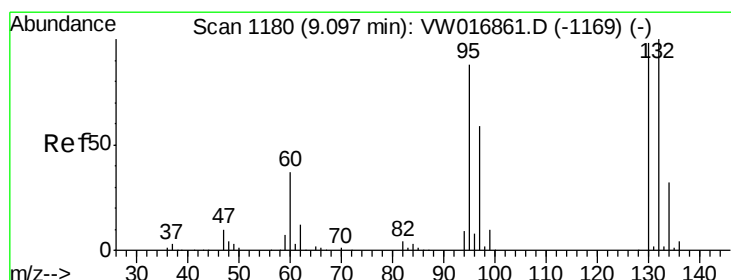
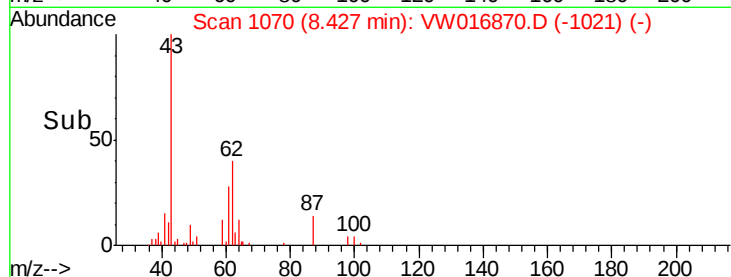
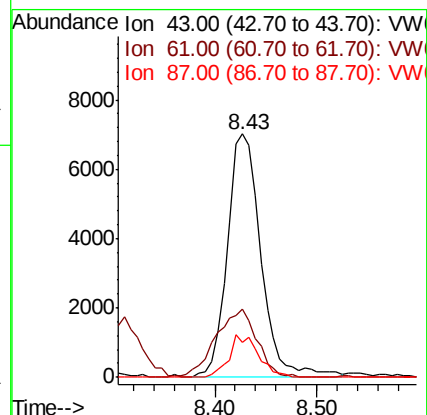
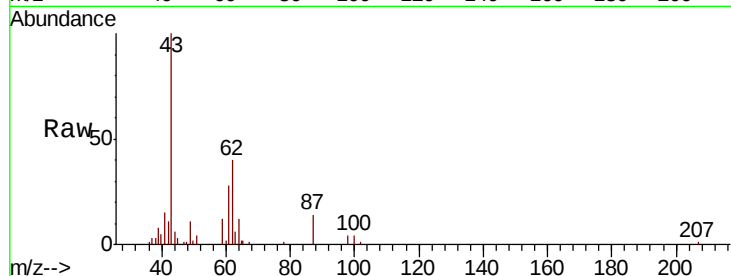
Tot Ion: 43 Resp: 16034

Ion Ratio Lower Upper

43 100

61 33.9 27.5 41.3

87 15.0 13.6 20.4



#44

Trichloroethene

Concen: 5.063 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016870.D

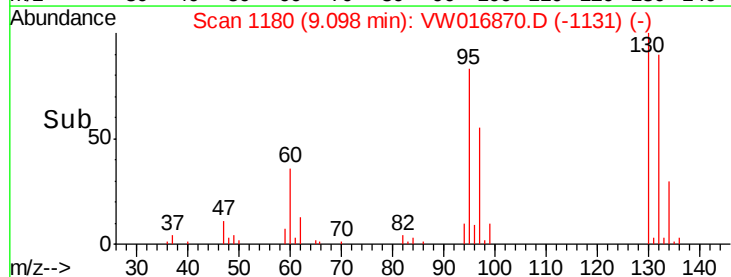
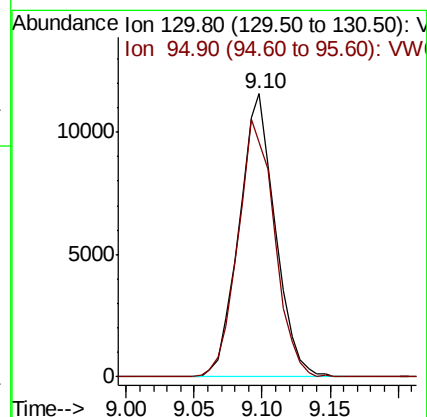
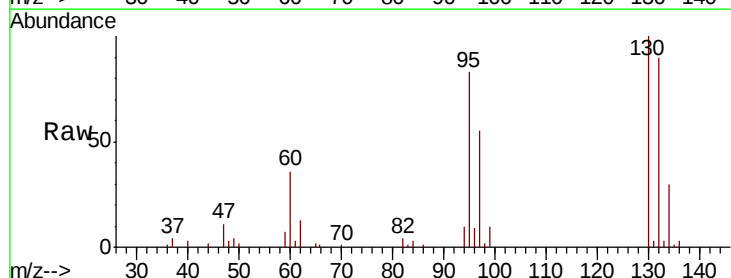
Acq: 09 Oct 2020 19:41

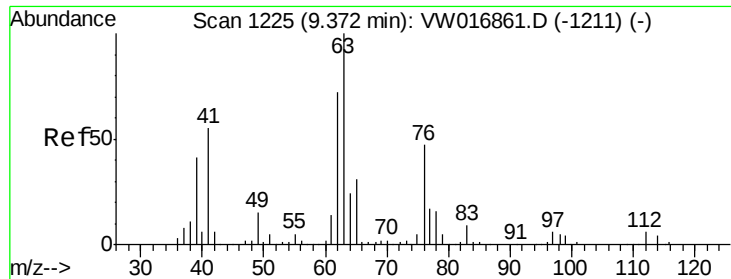
Tgt Ion: 130 Resp: 21413

Ion Ratio Lower Upper

130 100

95 83.1 0.0 180.2

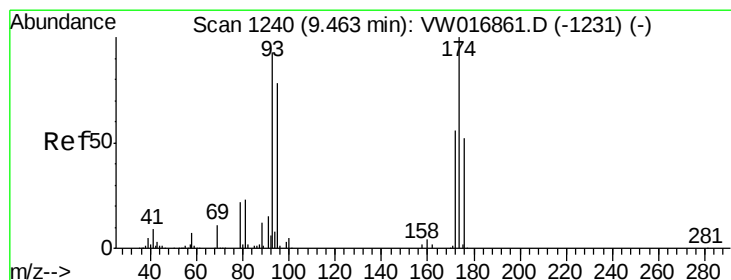
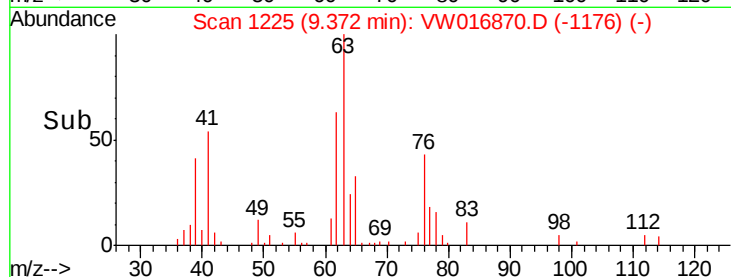
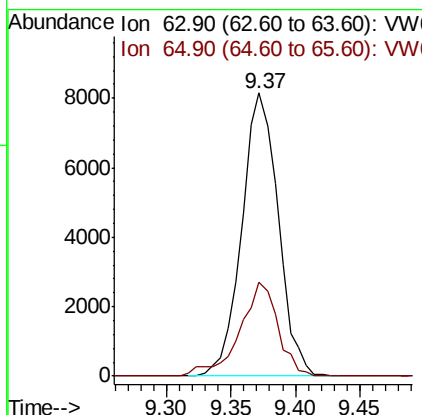
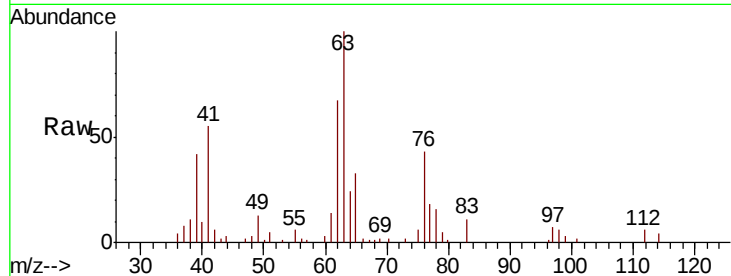




#45
 1,2-Dichloropropane
 Concen: 5.111 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

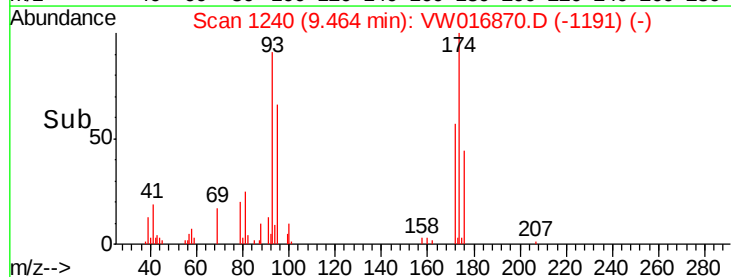
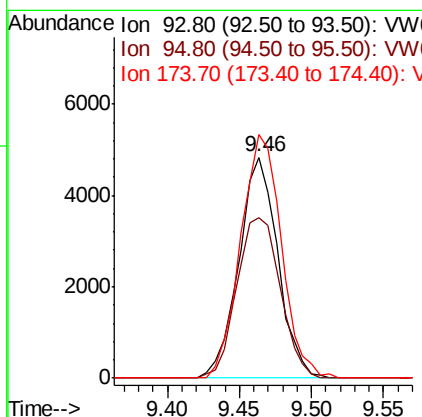
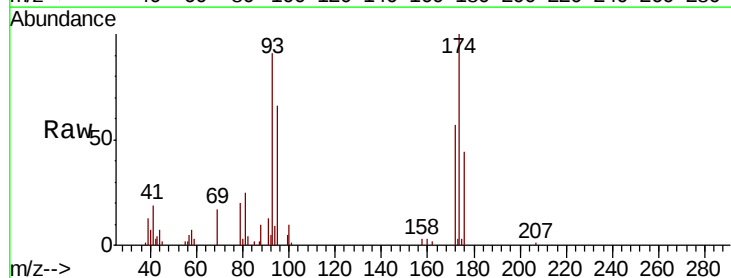
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

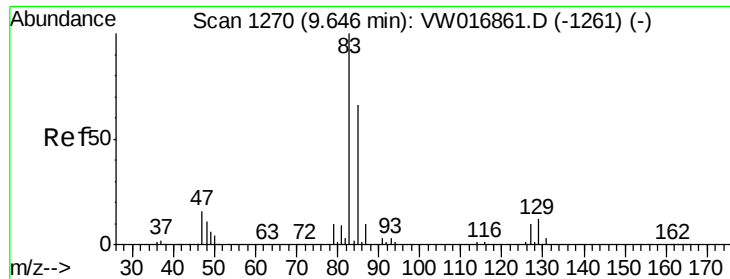
Tot Ion: 63 Resp: 15924
 Ion Ratio Lower Upper
 63 100
 65 33.3 25.1 37.7



#46
 Dibromomethane
 Concen: 5.088 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion: 93 Resp: 9067
 Ion Ratio Lower Upper
 93 100
 95 81.2 66.5 99.7
 174 115.2 91.0 136.6





#47

Bromodichloromethane

Concen: 4.841 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

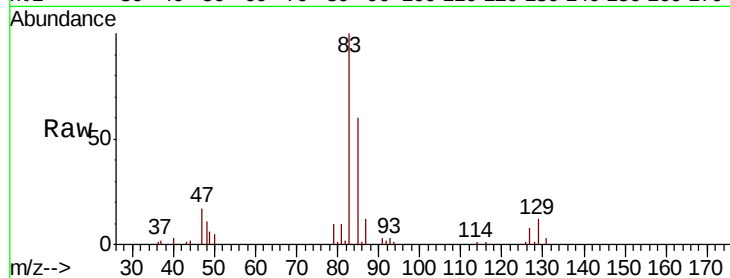
Tot Ion: 83 Resp: 21450

Ion Ratio Lower Upper

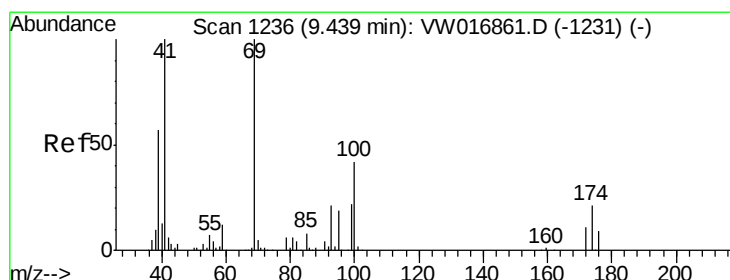
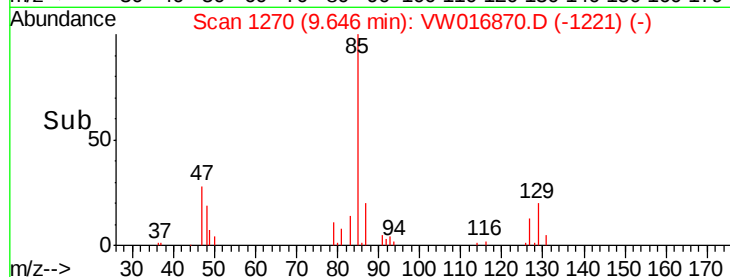
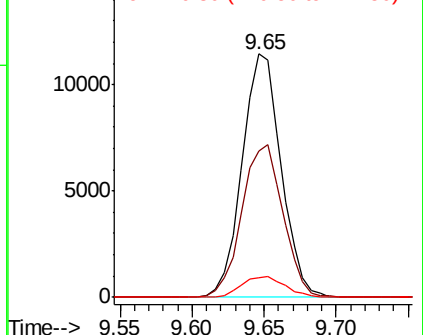
83 100

85 60.2 52.7 79.1

127 8.0 7.8 11.6



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



#48

Methyl methacrylate

Concen: 4.879 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

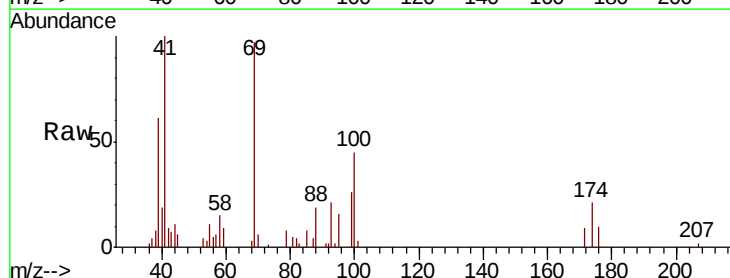
Tgt Ion: 41 Resp: 6900

Ion Ratio Lower Upper

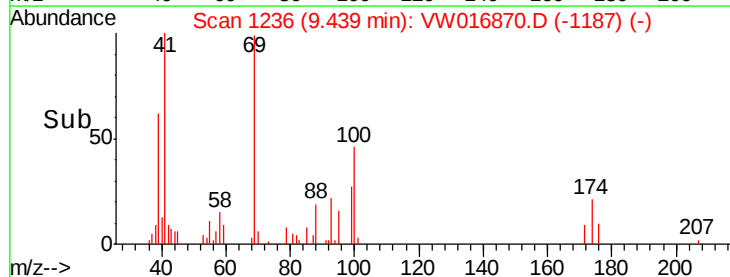
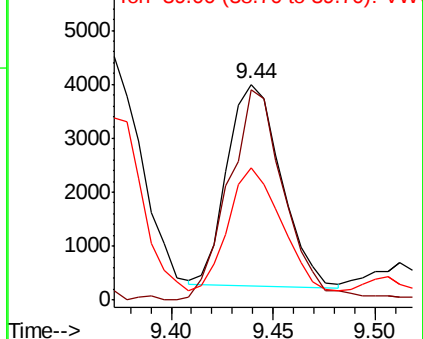
41 100

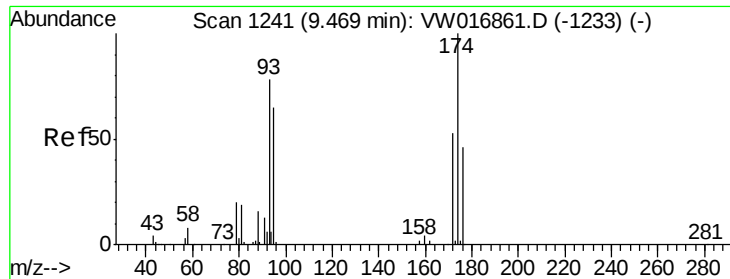
69 108.1 83.5 125.3

39 69.9 50.9 76.3



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





#49

1,4-Dioxane

Concen: 101.709 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

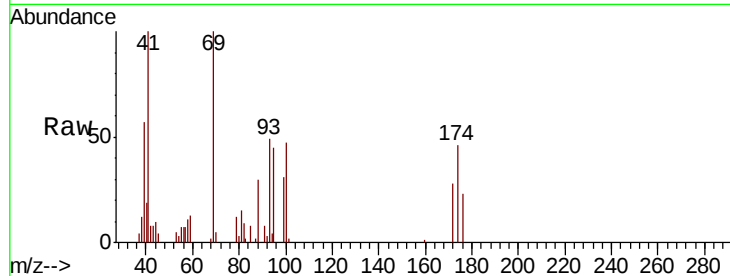
Tot Ion: 88 Resp: 2085

Ion Ratio Lower Upper

88 100

43 37.7 0.0 0.0#

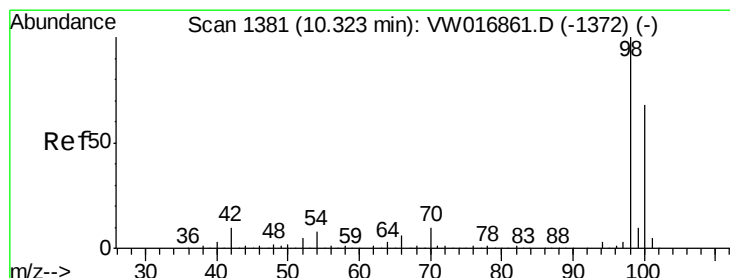
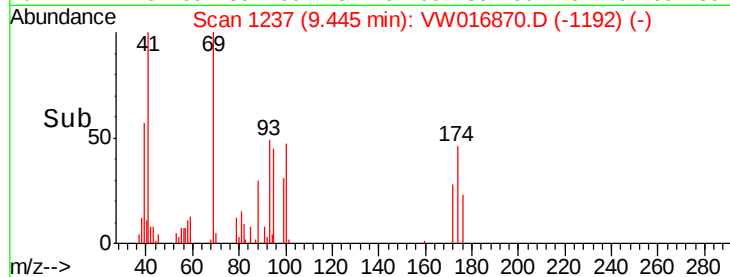
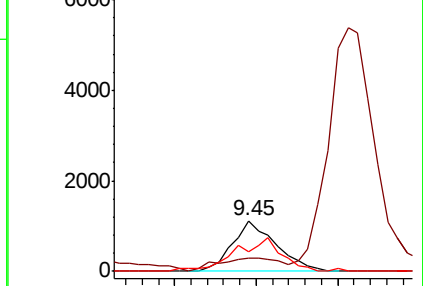
58 71.2 54.0 81.0



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.447 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW016870.D

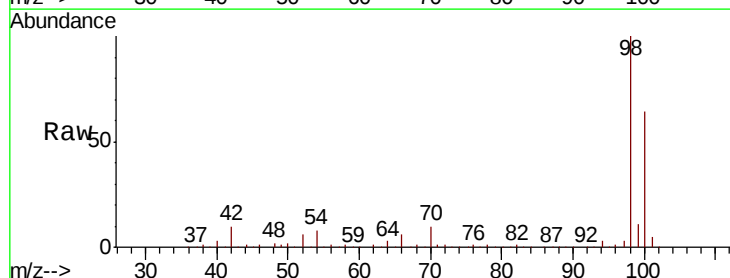
Acq: 09 Oct 2020 19:41

Tgt Ion: 98 Resp: 657634

Ion Ratio Lower Upper

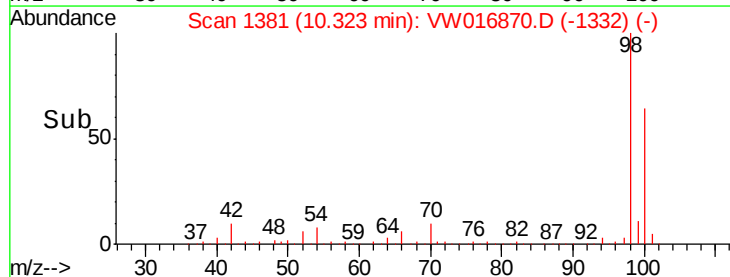
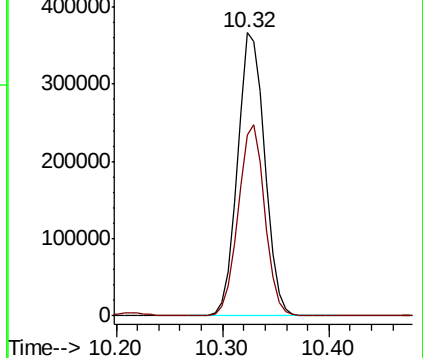
98 100

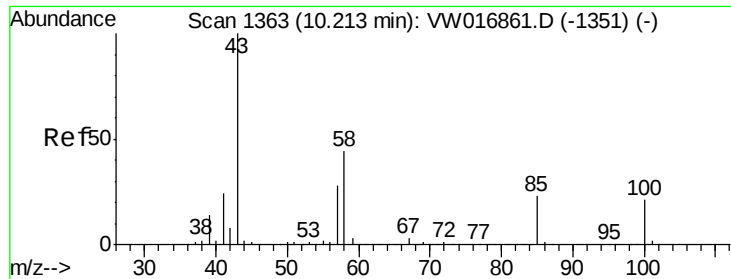
100 66.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 25.986 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

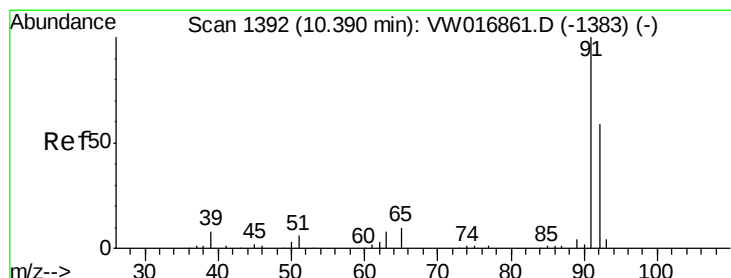
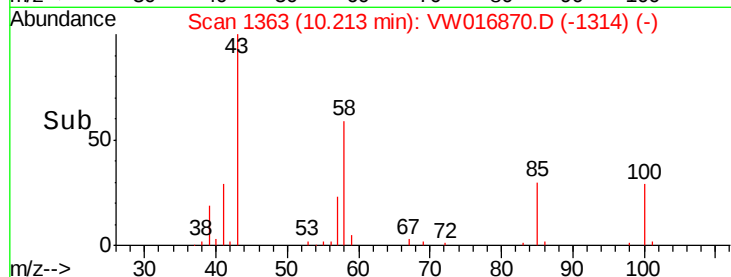
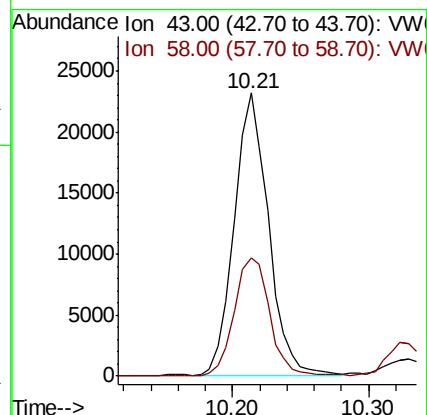
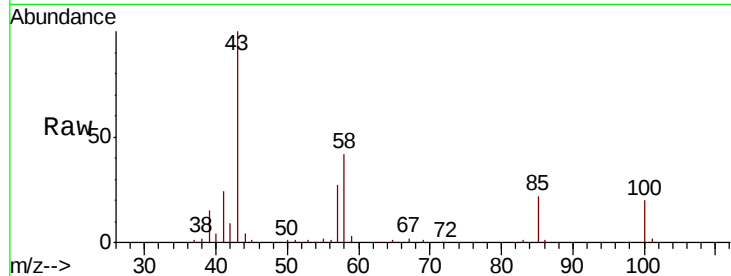
LOQ-SOIL-02-QT4-2020

Tot Ion: 43 Resp: 40348

Ion Ratio Lower Upper

43 100

58 43.8 34.7 52.1



#52

Toluene

Concen: 5.143 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016870.D

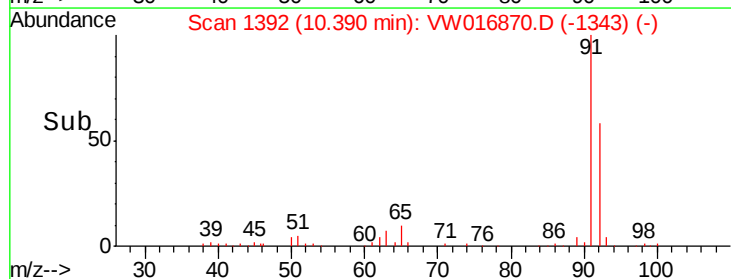
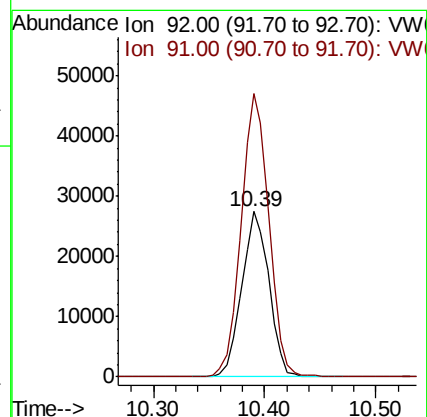
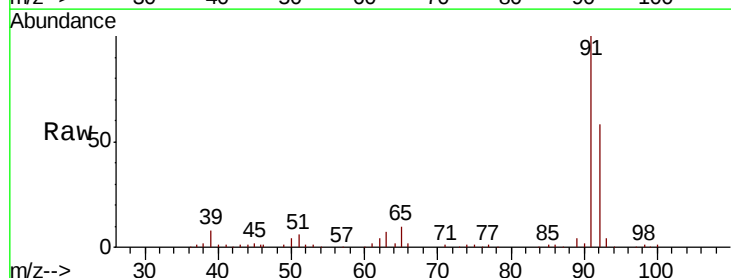
Acq: 09 Oct 2020 19:41

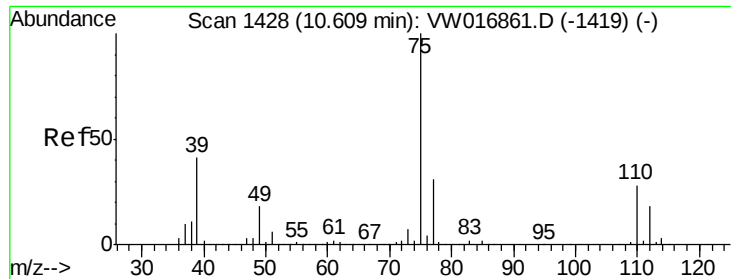
Tgt Ion: 92 Resp: 46454

Ion Ratio Lower Upper

92 100

91 173.4 134.7 202.1





#53

t-1,3-Dichloropropene

Concen: 4.582 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

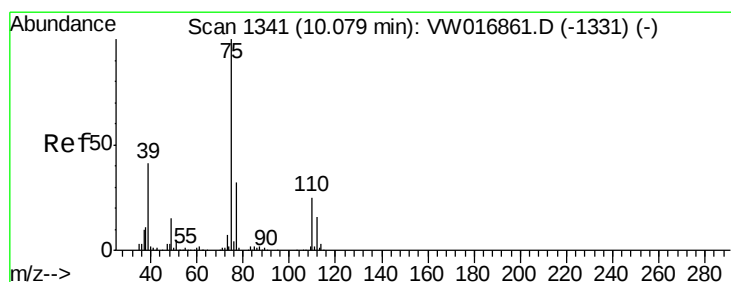
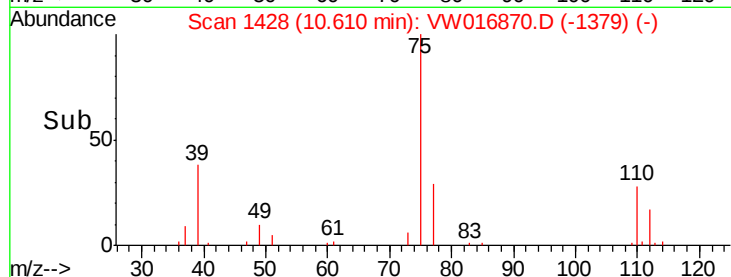
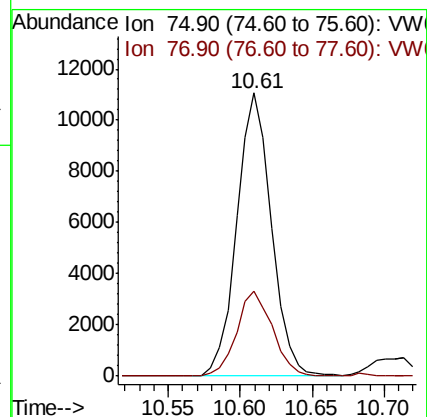
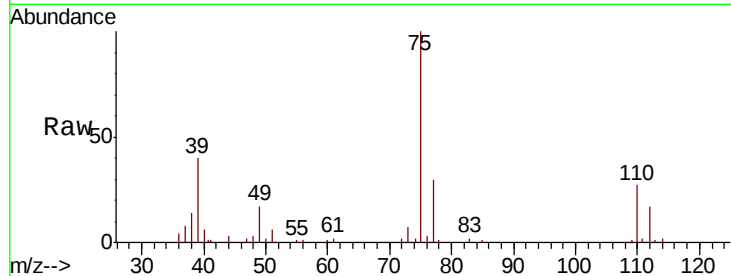
LOQ-SOIL-02-QT4-2020

Tot Ion: 75 Resp: 18483

Ion Ratio Lower Upper

75 100

77 29.9 24.8 37.2



#54

cis-1,3-Dichloropropene

Concen: 4.741 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

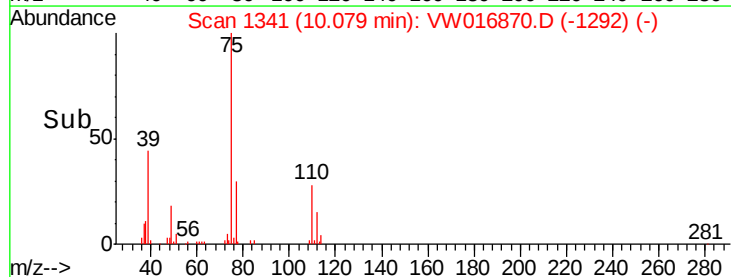
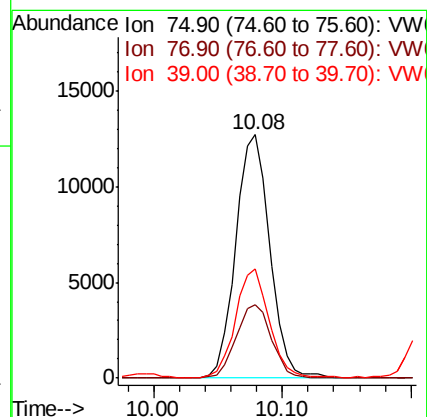
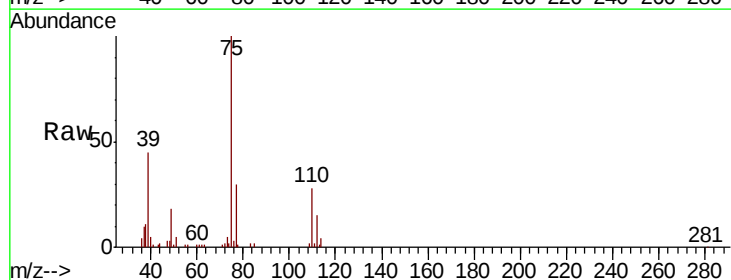
Tgt Ion: 75 Resp: 23362

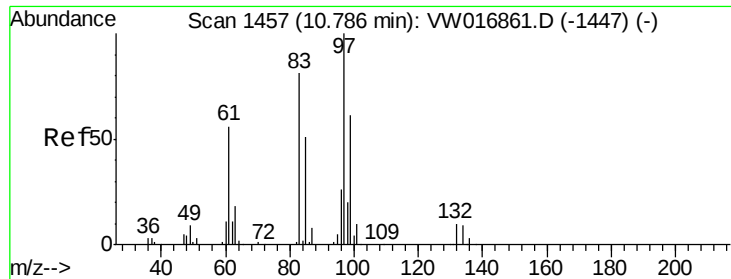
Ion Ratio Lower Upper

75 100

77 30.1 25.8 38.6

39 45.0 32.9 49.3

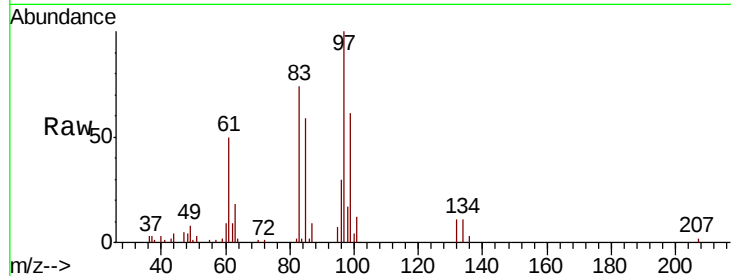




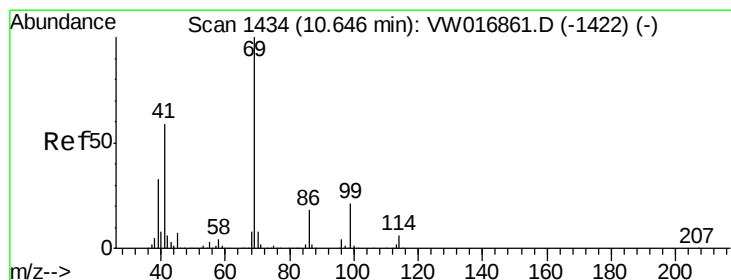
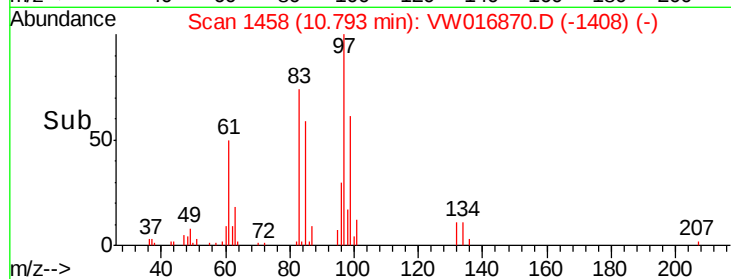
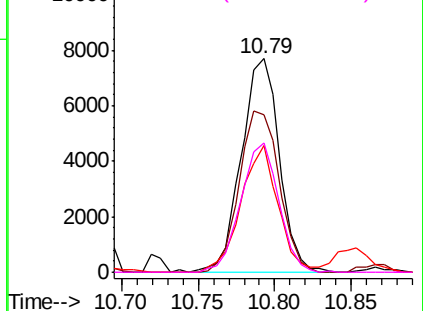
#55
 1,1,2-Trichloroethane
 Concen: 5.258 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

Tot Ion:	97	Resp:	13339
Ion	Ratio	Lower	Upper
97	100		
83	73.5	64.6	97.0
85	59.2	40.6	61.0
99	60.5	49.0	73.6

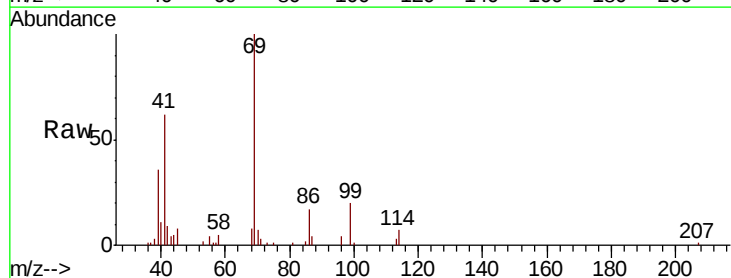


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

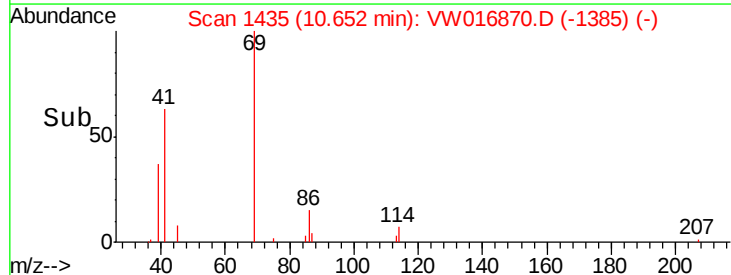
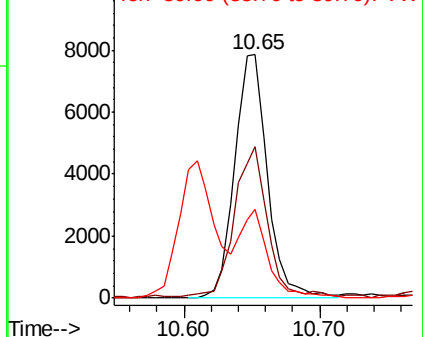


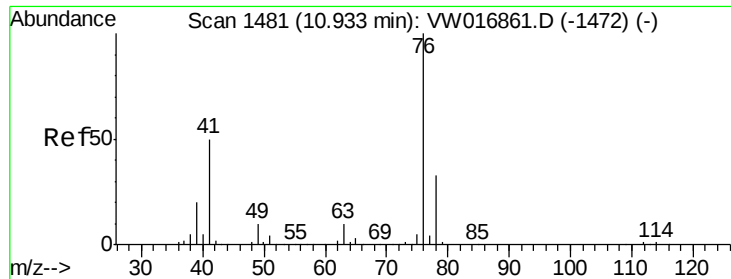
#56
 Ethyl methacrylate
 Concen: 4.798 ug/l
 RT: 10.65 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion:	69	Resp:	13242
Ion	Ratio	Lower	Upper
69	100		
41	61.4	46.3	69.5
39	31.7	25.9	38.9



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

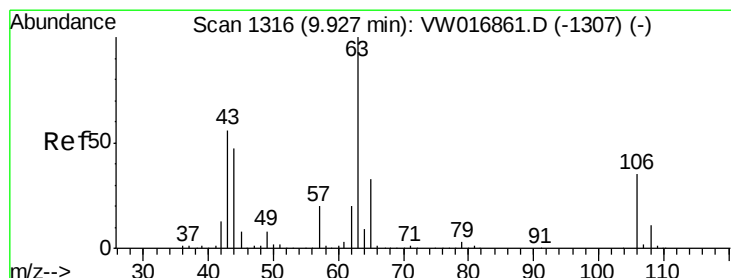
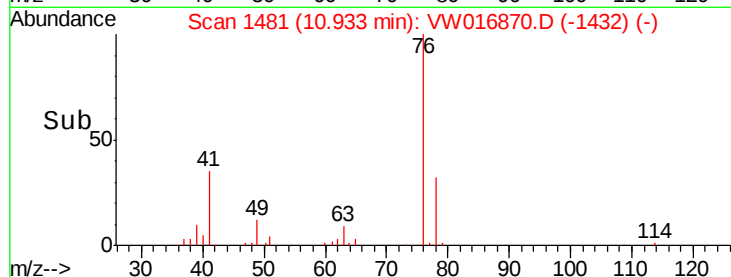
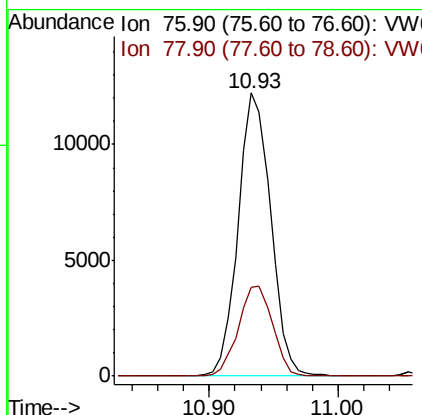
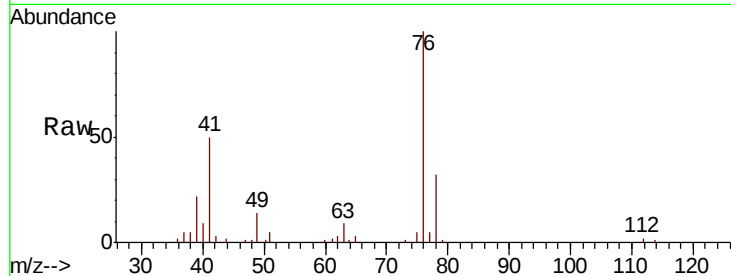




#57
 1,3-Dichloropropane
 Concen: 5.087 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

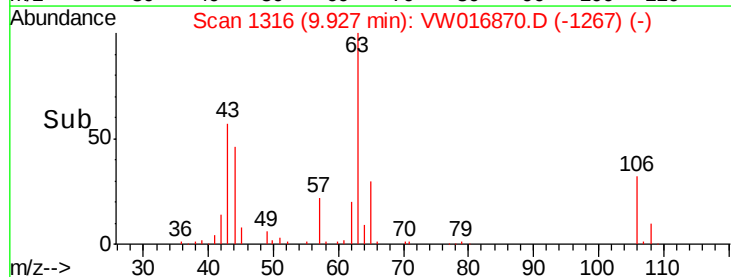
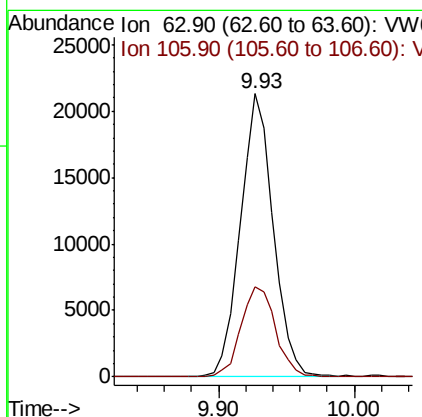
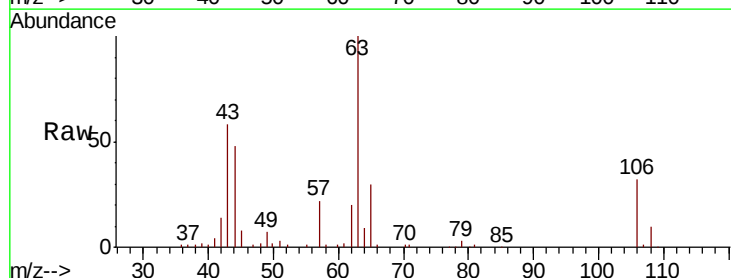
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

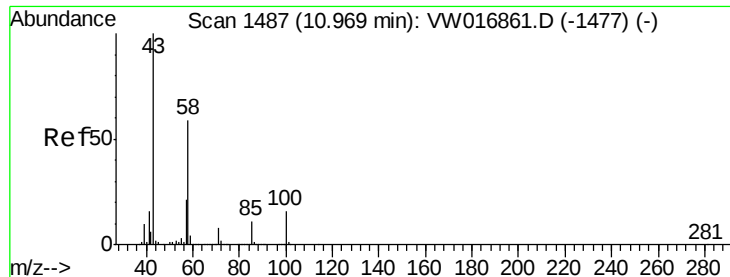
Tot Ion: 76 Resp: 21350
 Ion Ratio Lower Upper
 76 100
 78 33.4 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.461 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion: 63 Resp: 35877
 Ion Ratio Lower Upper
 63 100
 106 33.4 27.0 40.4

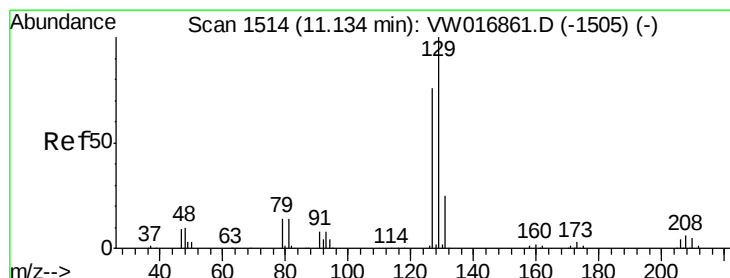
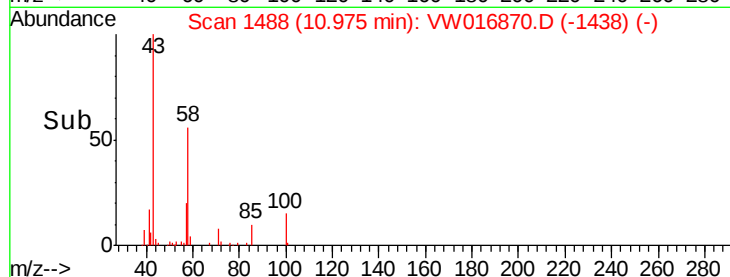
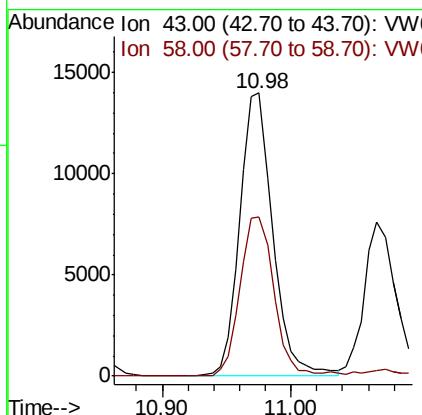
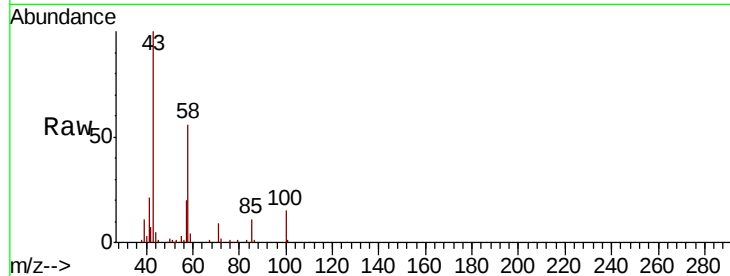




#59
2-Hexanone
Concen: 24.183 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

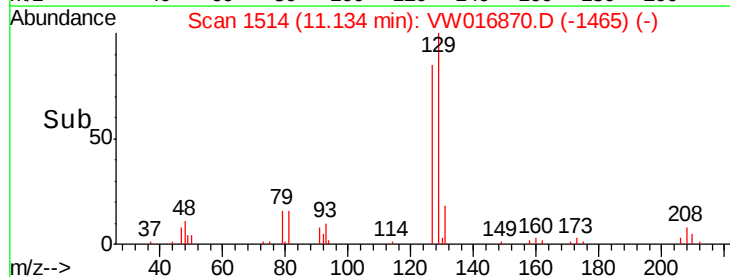
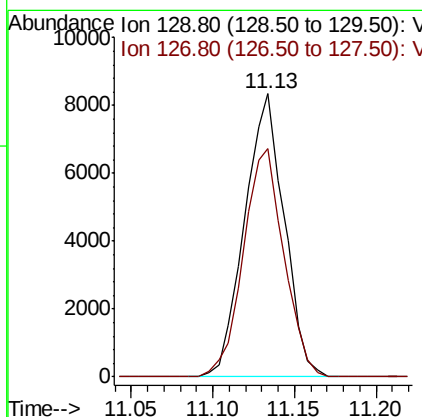
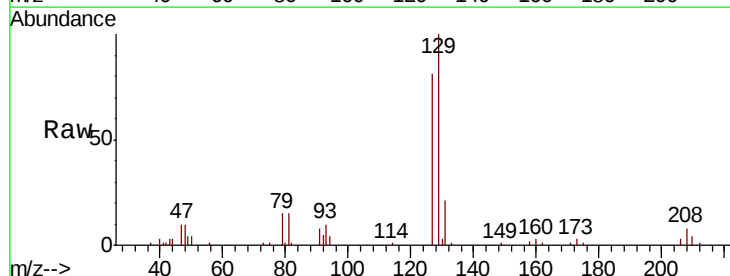
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

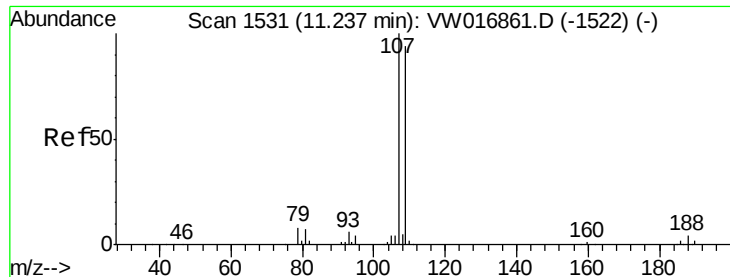
Tot Ion: 43 Resp: 24844
Ion Ratio Lower Upper
43 100
58 57.5 29.5 88.5



#60
Dibromochloromethane
Concen: 4.534 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 129 Resp: 14108
Ion Ratio Lower Upper
129 100
127 82.6 38.9 116.6





#61

1,2-Dibromoethane

Concen: 4.982 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

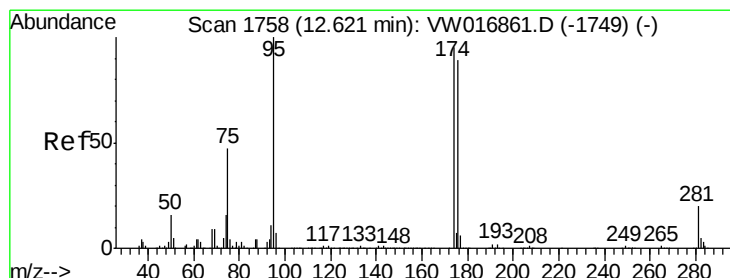
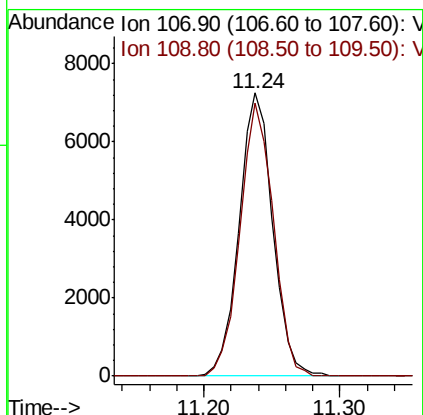
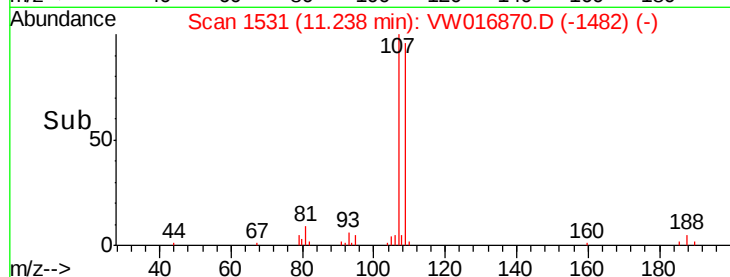
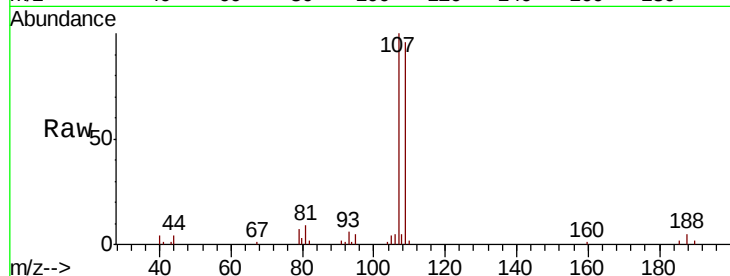
LOQ-SOIL-02-QT4-2020

Tot Ion: 107 Resp: 12515

Ion Ratio Lower Upper

107 100

109 95.5 74.7 112.1



#62

4-Bromofluorobenzene

Concen: 51.188 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

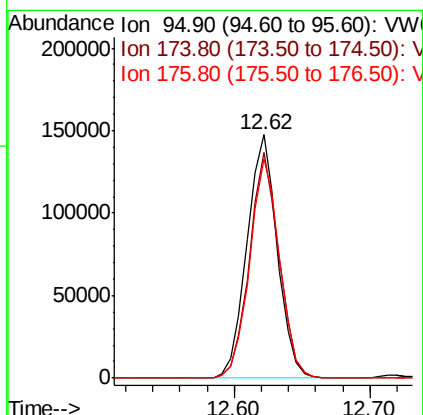
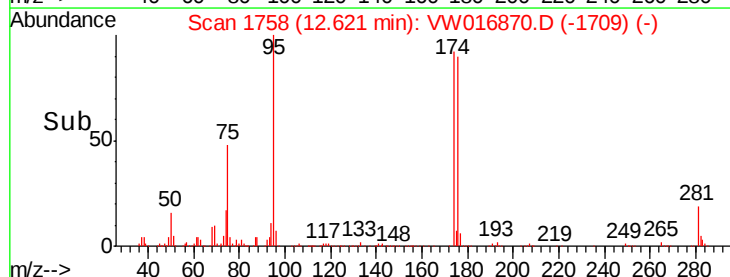
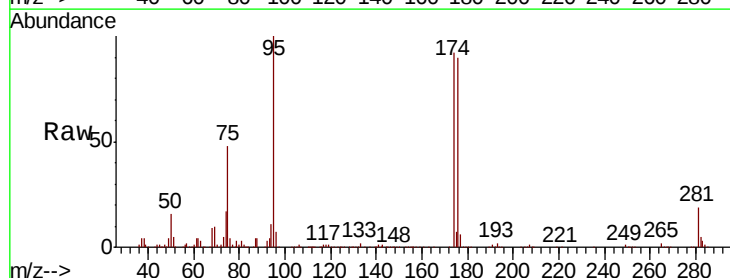
Tgt Ion: 95 Resp: 230109

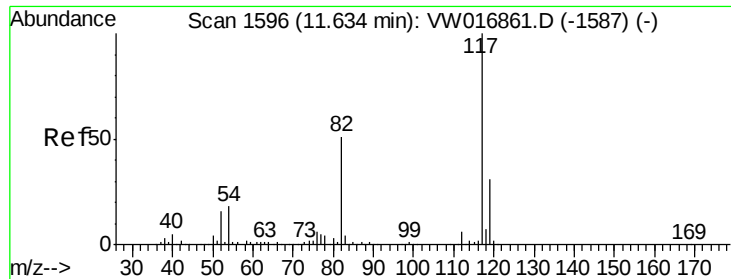
Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.6

176 89.0 0.0 177.6

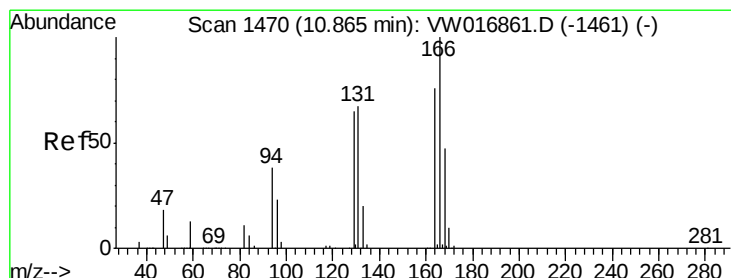
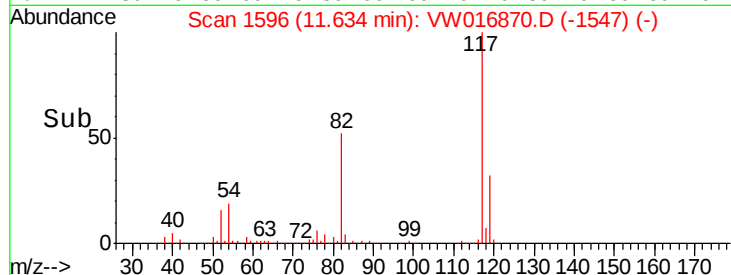
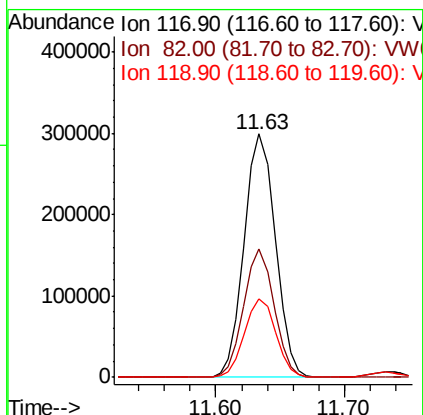
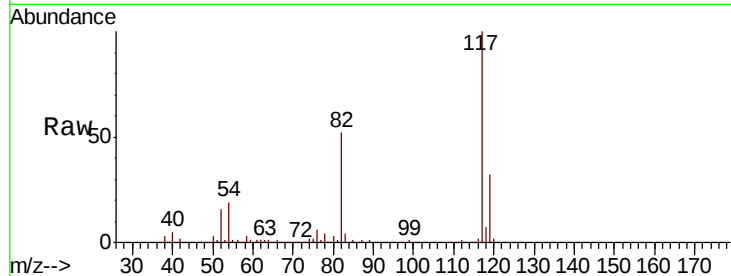




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

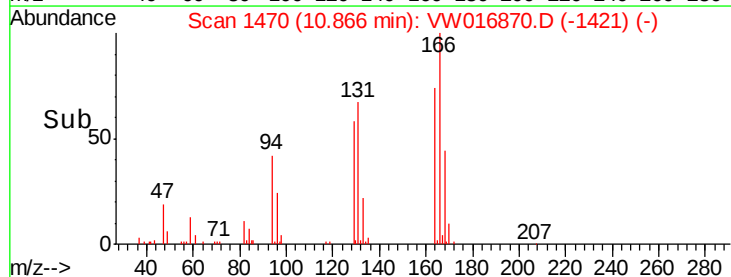
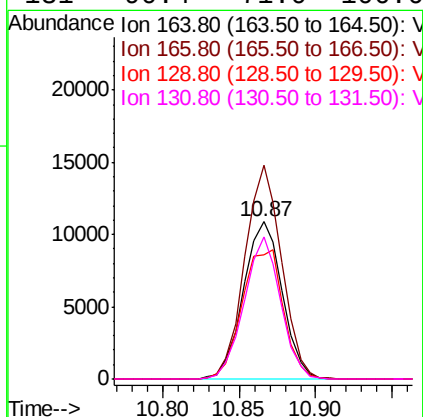
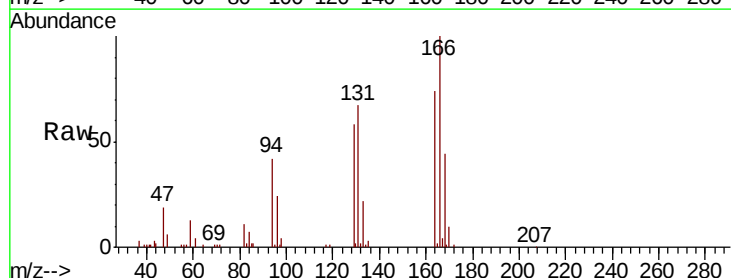
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

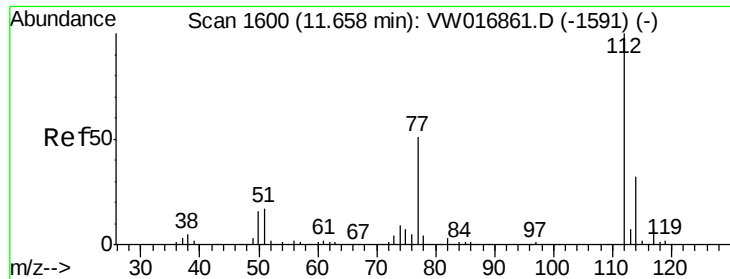
Tot Ion:117 Resp: 503196
Ion Ratio Lower Upper
117 100
82 52.5 40.7 61.1
119 32.3 25.0 37.4



#64
Tetrachloroethene
Concen: 5.360 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:164 Resp: 19216
Ion Ratio Lower Upper
164 100
166 135.9 105.3 157.9
129 79.2 68.8 103.2
131 90.4 71.0 106.6

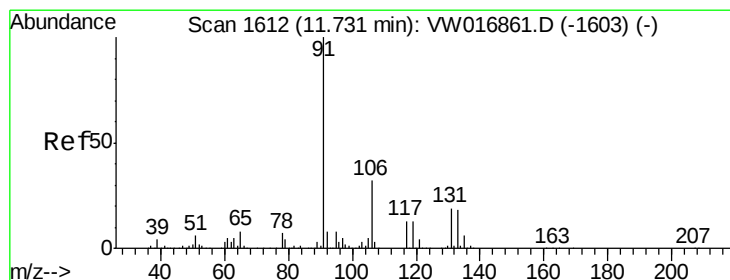
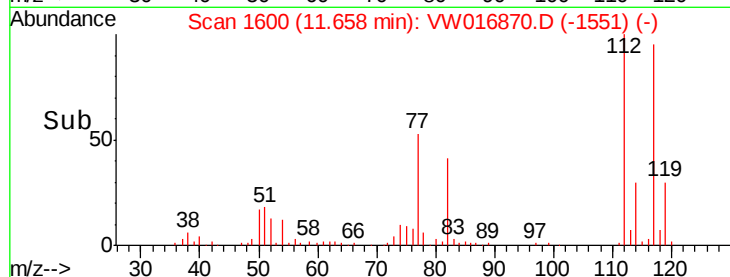
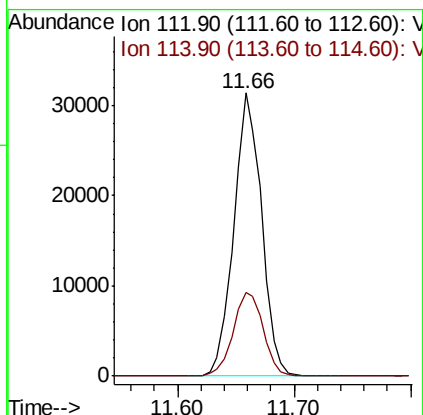
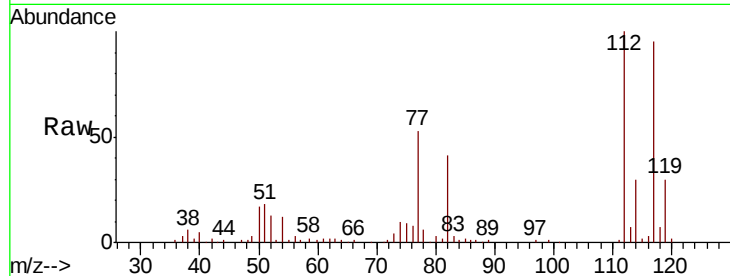




#65
Chlorobenzene
Concen: 5.285 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

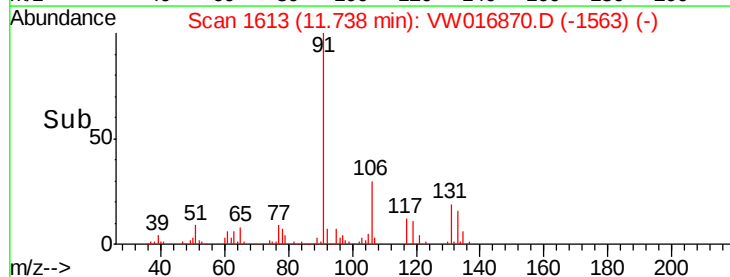
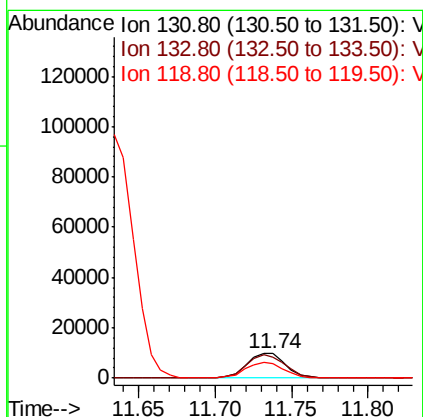
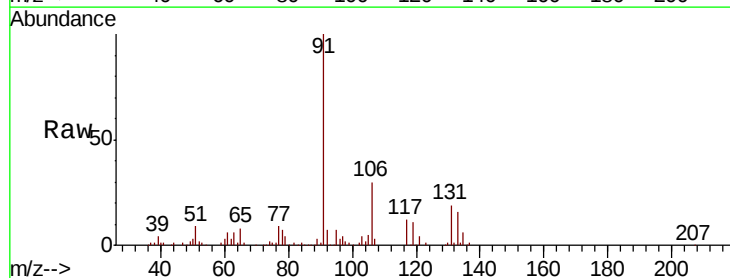
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

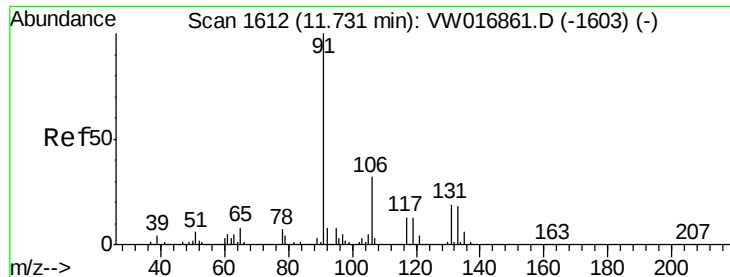
Tot Ion:112 Resp: 52162
Ion Ratio Lower Upper
112 100
114 29.5 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 4.949 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:131 Resp: 17275
Ion Ratio Lower Upper
131 100
133 94.5 48.1 144.3
119 64.7 32.5 97.4

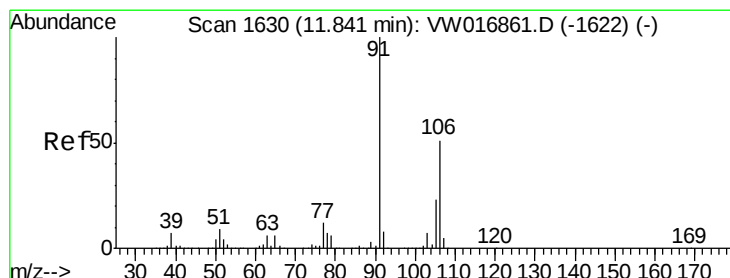
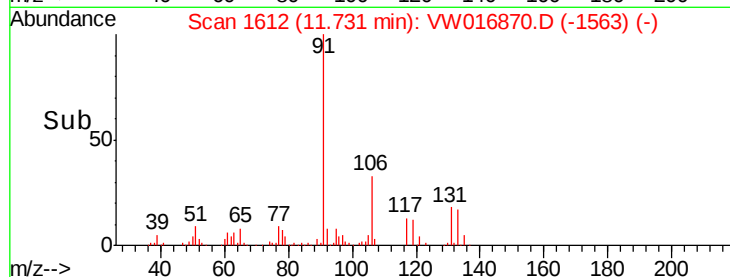
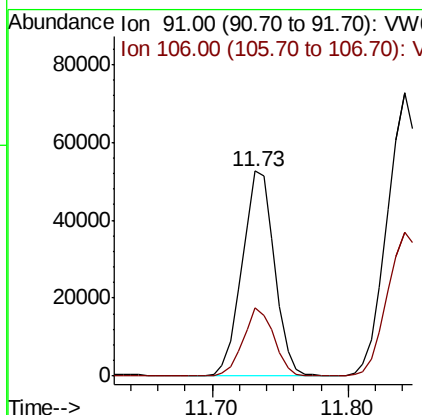
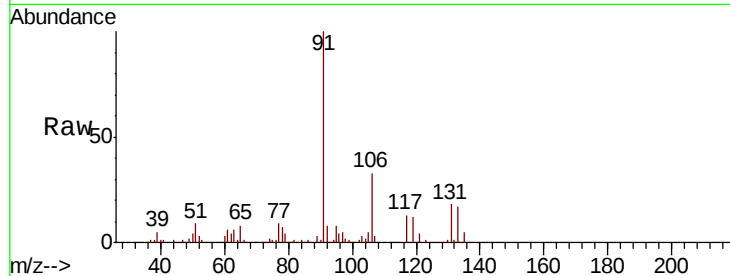




#67
Ethyl Benzene
Concen: 5.089 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

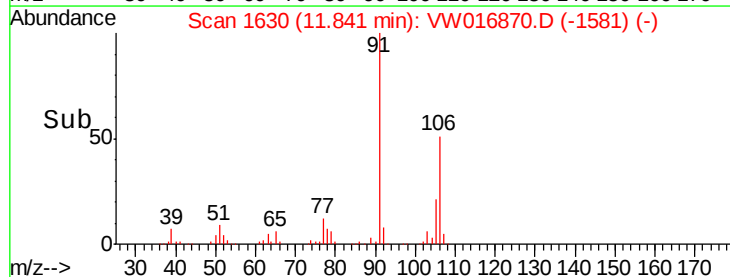
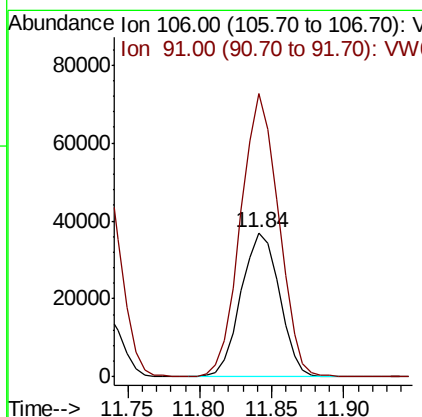
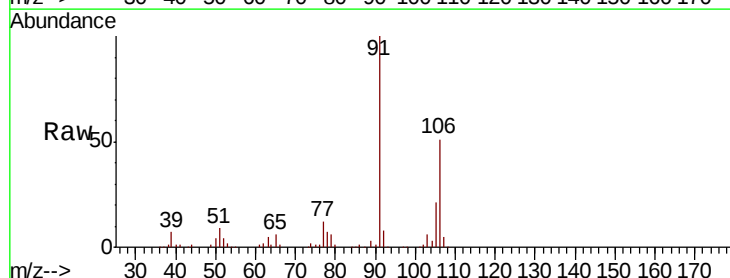
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

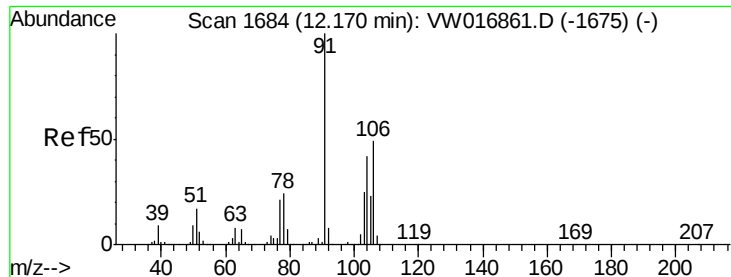
Tot Ion: 91 Resp: 87522
Ion Ratio Lower Upper
91 100
106 33.2 25.9 38.9



#68
m/p-Xylenes
Concen: 10.257 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion: 106 Resp: 68610
Ion Ratio Lower Upper
106 100
91 193.1 157.4 236.0

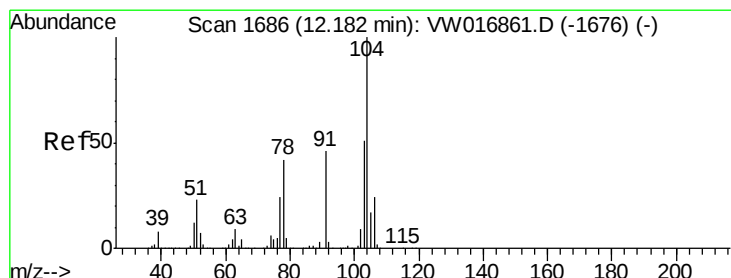
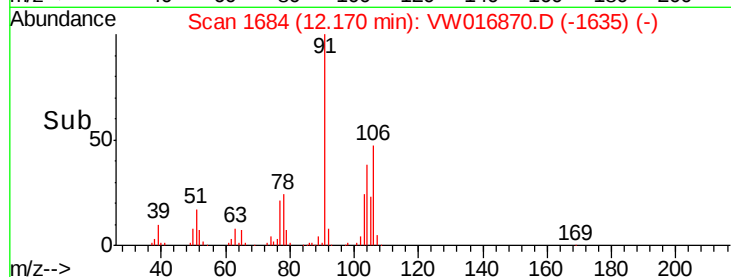
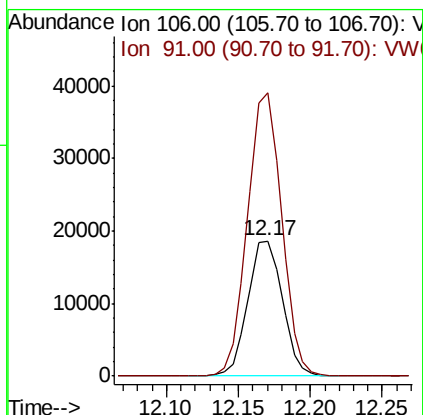
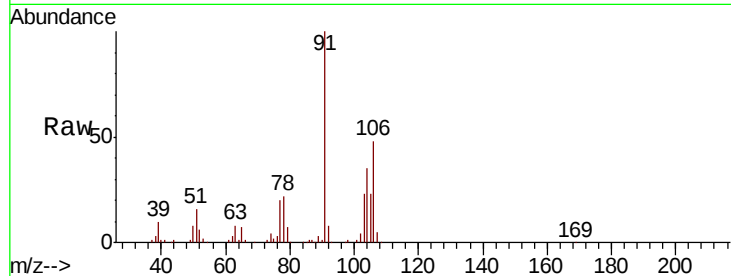




#69
o-Xylene
Concen: 5.056 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

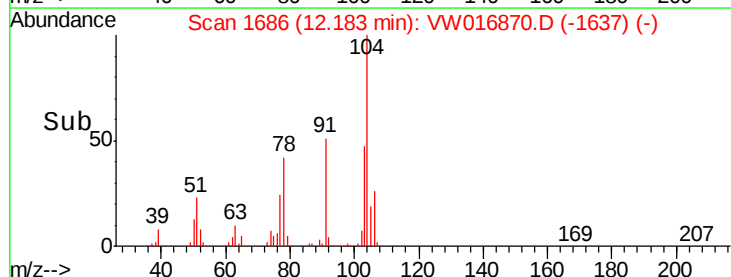
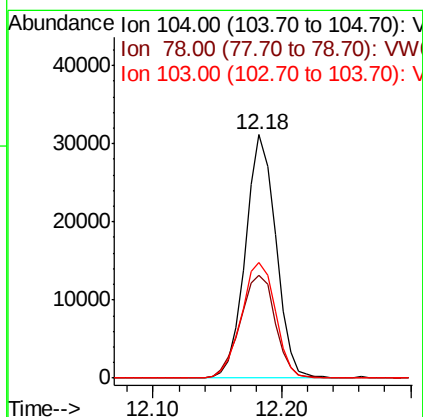
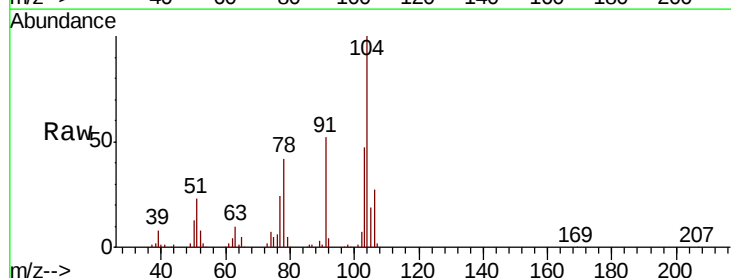
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

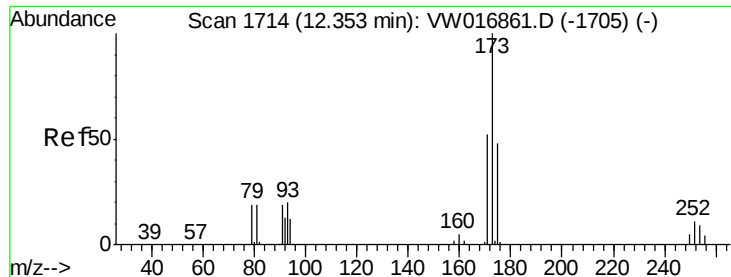
Tot Ion:106 Resp: 31037
Ion Ratio Lower Upper
106 100
91 207.0 103.6 310.9



#70
Styrene
Concen: 4.959 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:104 Resp: 50667
Ion Ratio Lower Upper
104 100
78 48.8 37.6 56.4
103 53.3 43.6 65.4





#71

Bromoform

Concen: 4.629 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

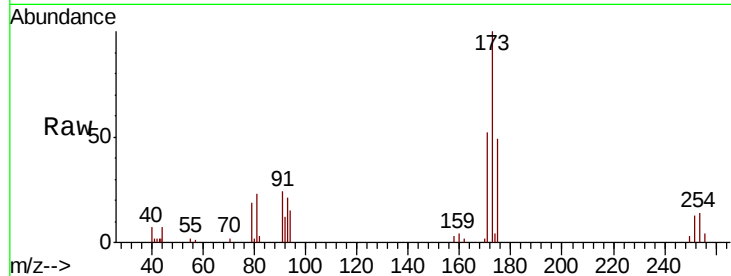
Tot Ion:173 Resp: 8112

Ion Ratio Lower Upper

173 100

175 52.5 24.7 74.1

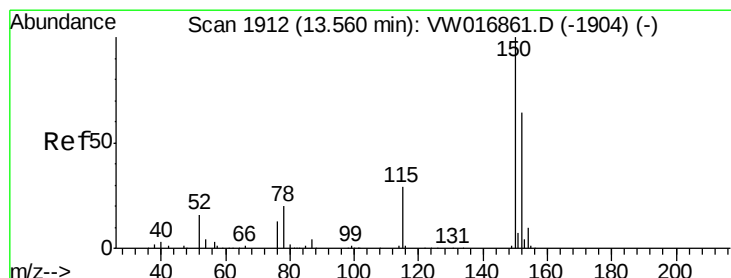
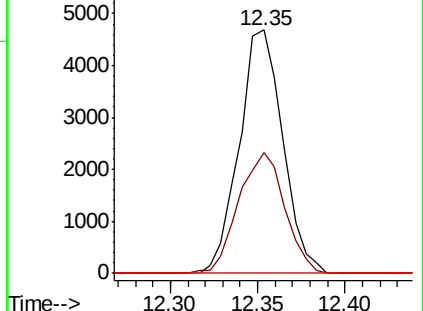
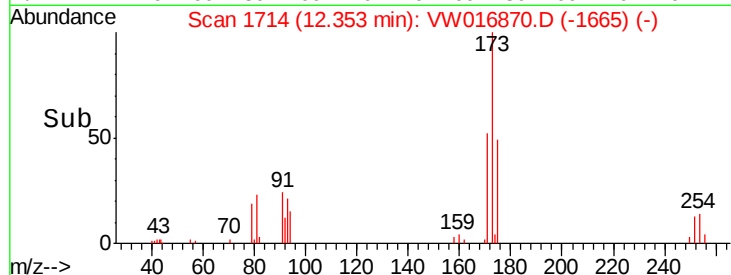
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

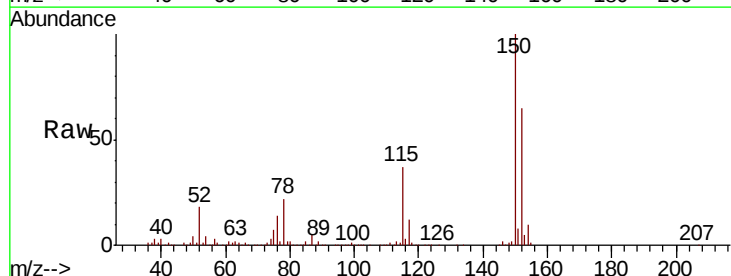
Tgt Ion:152 Resp: 257787

Ion Ratio Lower Upper

152 100

115 55.6 27.9 83.7

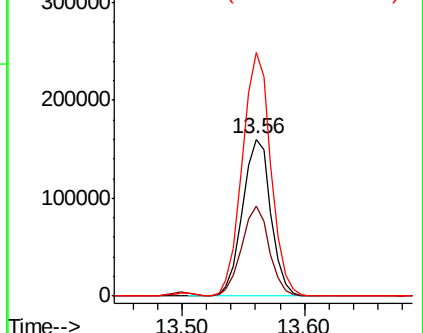
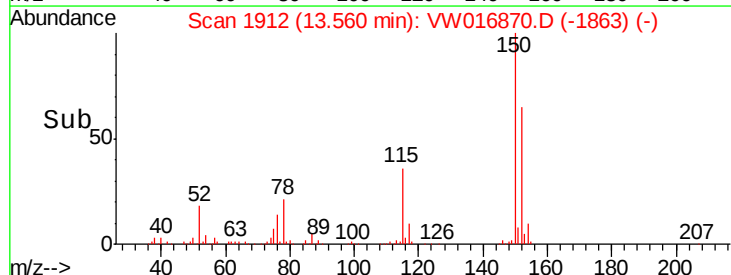
150 156.2 0.0 344.0

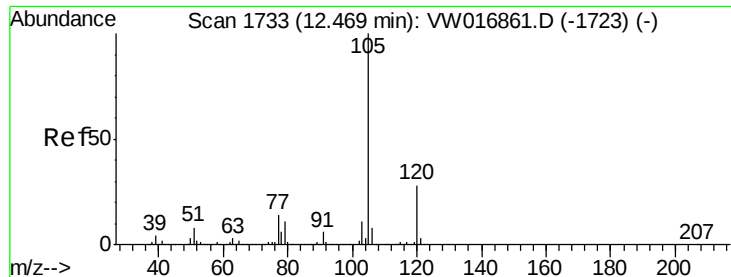


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.064 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

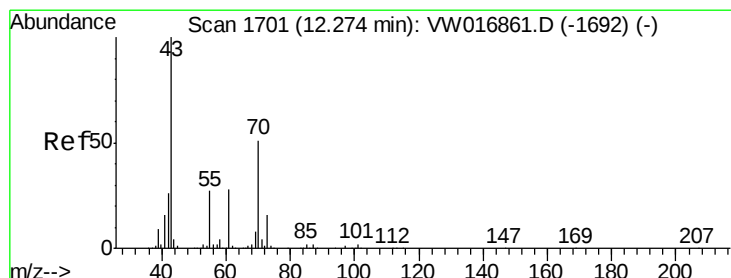
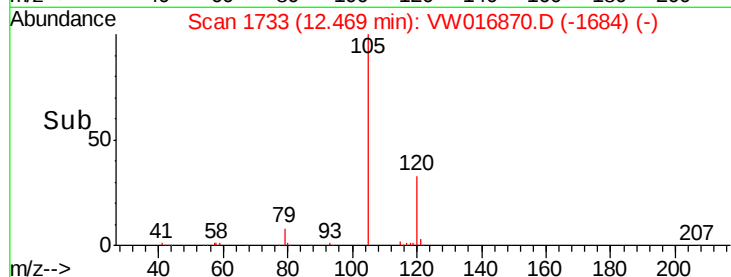
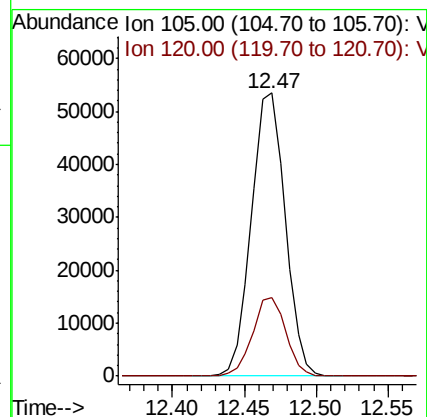
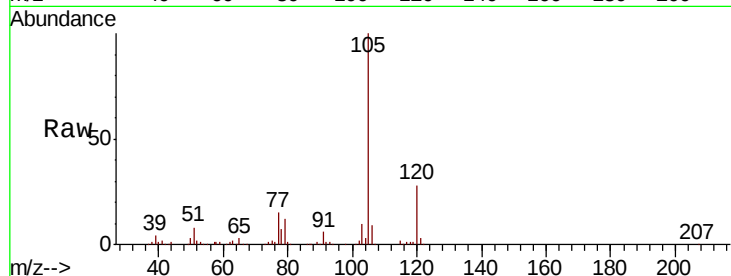
LOQ-SOIL-02-QT4-2020

Tot Ion:105 Resp: 86775

Ion Ratio Lower Upper

105 100

120 27.3 13.6 40.7



#74

N-ethyl acetate

Concen: 4.691 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Tgt Ion: 43 Resp: 12911

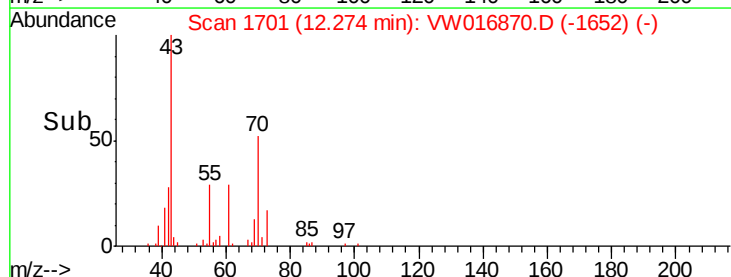
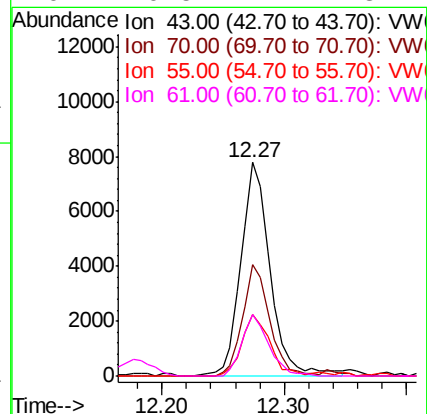
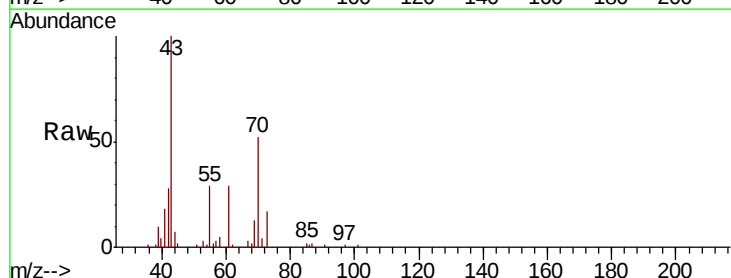
Ion Ratio Lower Upper

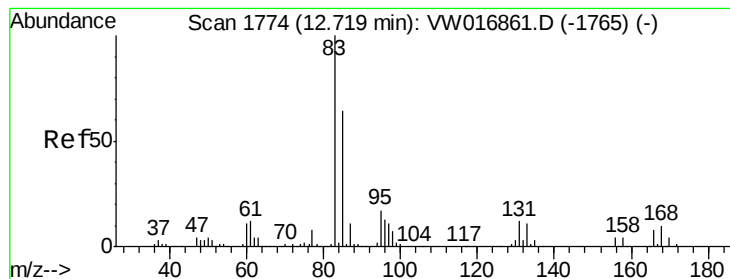
43 100

70 47.9 40.2 60.4

55 27.7 21.4 32.0

61 26.5 21.4 32.2





#75

1,1,2,2-Tetrachloroethane

Concen: 5.366 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

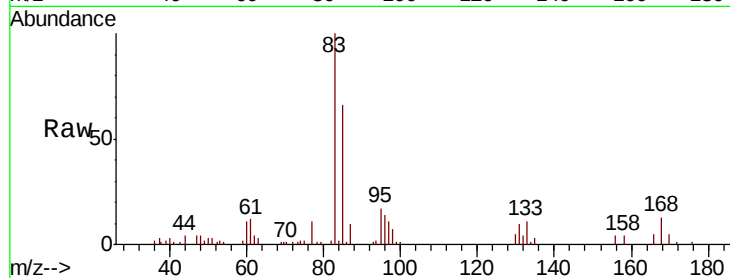
Tot Ion: 83 Resp: 14425

Ion Ratio Lower Upper

83 100

131 10.9 6.1 18.3

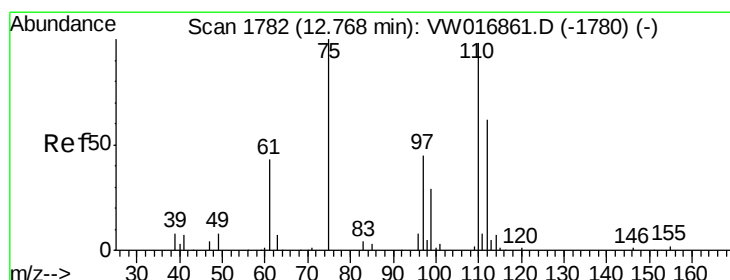
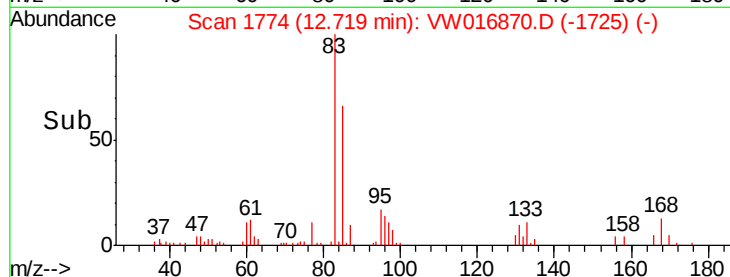
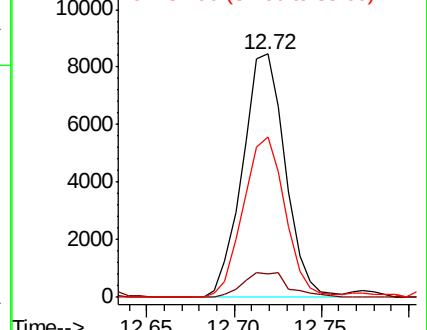
85 64.3 32.7 98.1



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 8.704 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016870.D

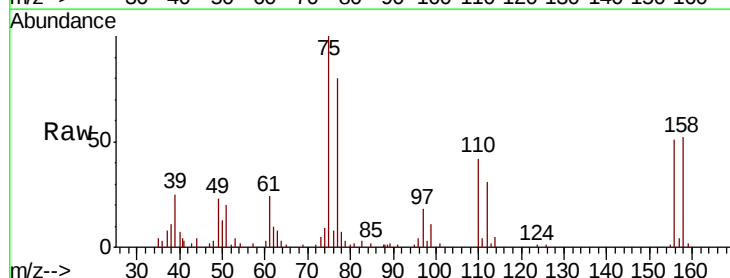
Acq: 09 Oct 2020 19:41

Tgt Ion: 75 Resp: 16742

Ion Ratio Lower Upper

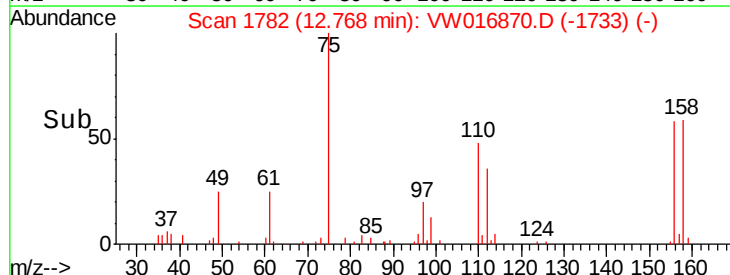
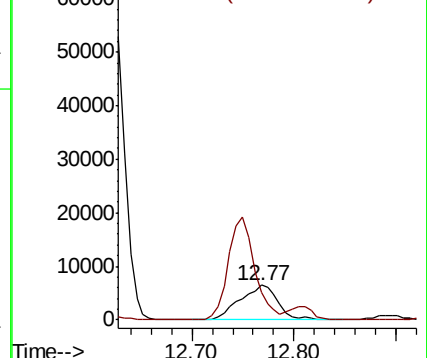
75 100

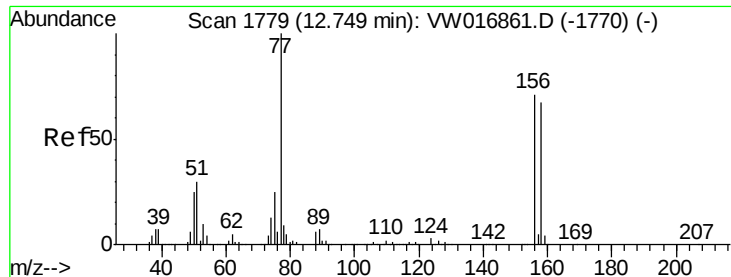
77 207.4 178.8 536.3



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 5.443 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

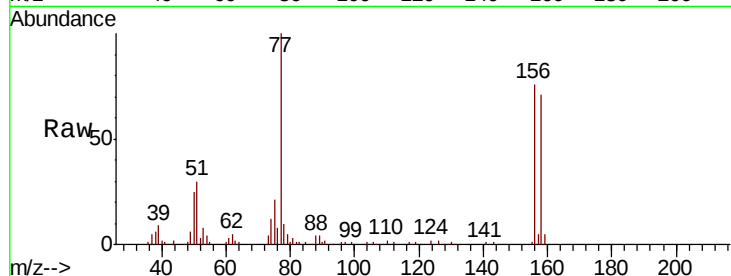
Tot Ion:156 Resp: 23052

Ion Ratio Lower Upper

156 100

77 150.6 79.0 237.2

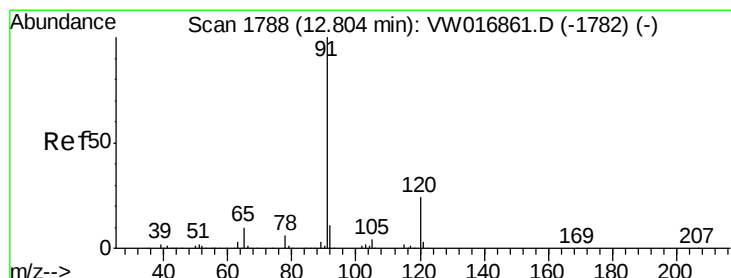
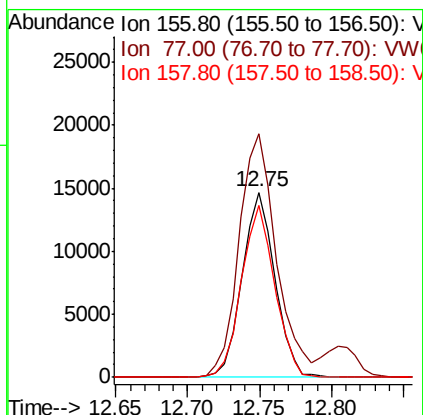
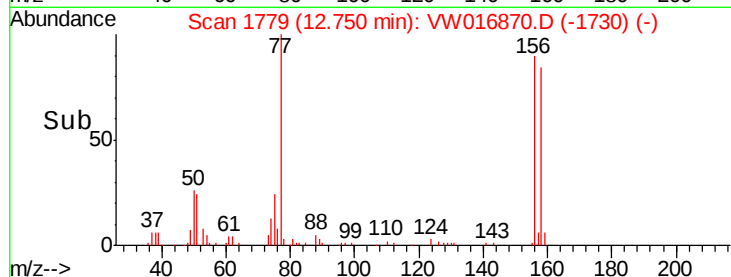
158 94.1 47.0 141.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.005 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW016870.D

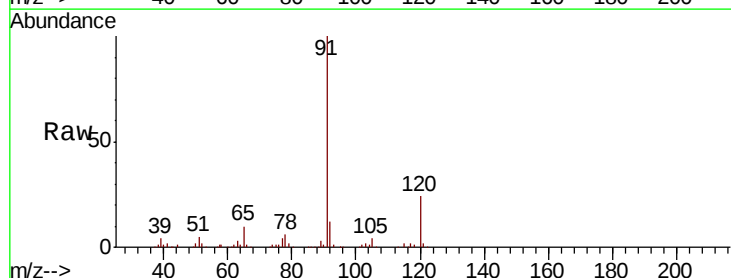
Acq: 09 Oct 2020 19:41

Tgt Ion: 91 Resp: 98899

Ion Ratio Lower Upper

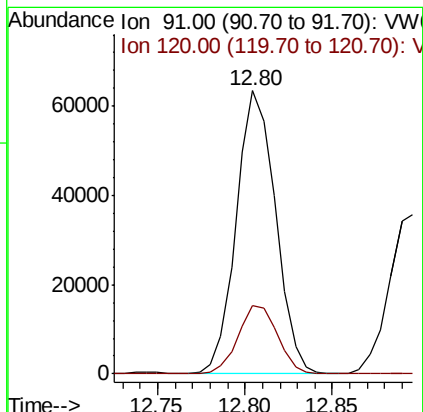
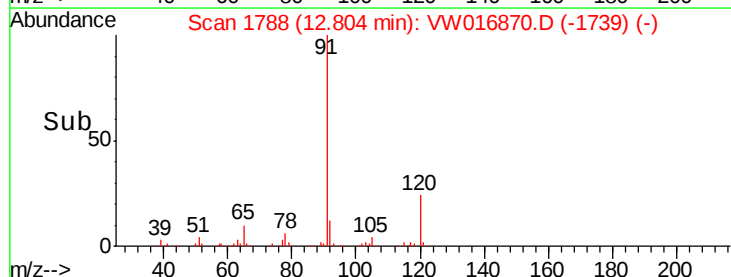
91 100

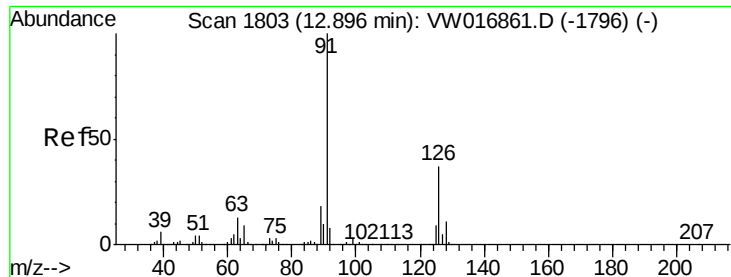
120 24.6 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.144 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

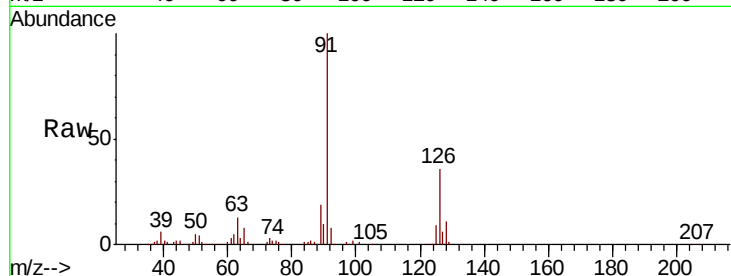
LOQ-SOIL-02-QT4-2020

Tot Ion: 91 Resp: 57980

Ion Ratio Lower Upper

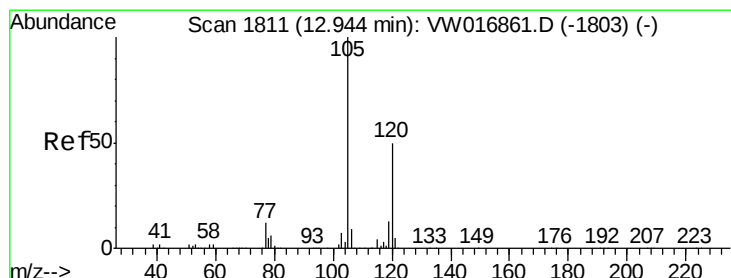
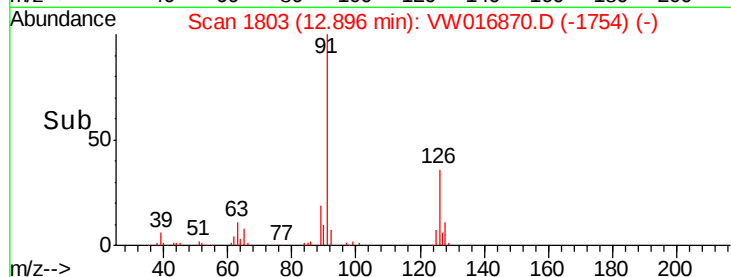
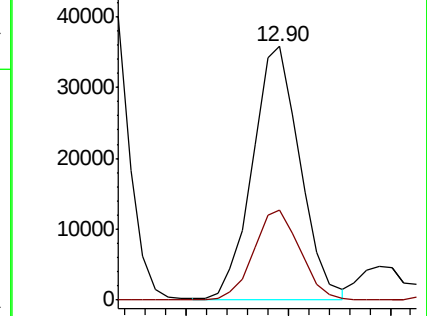
91 100

126 35.0 17.9 53.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 5.109 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016870.D

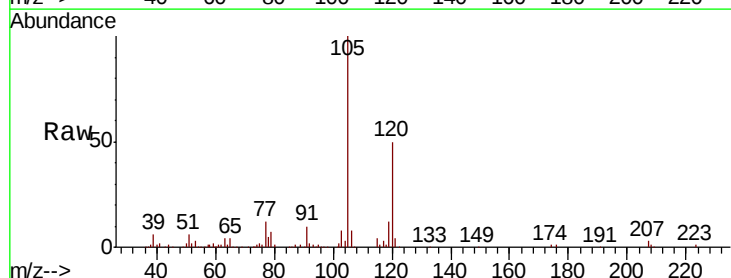
Acq: 09 Oct 2020 19:41

Tgt Ion:105 Resp: 73364

Ion Ratio Lower Upper

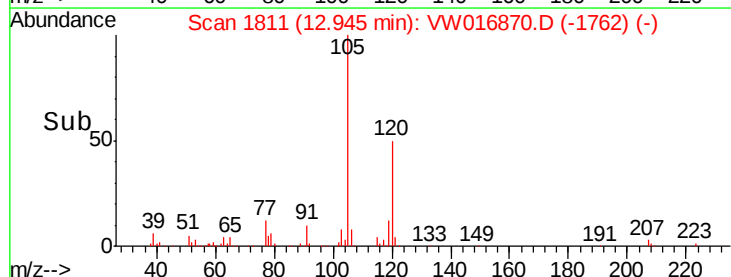
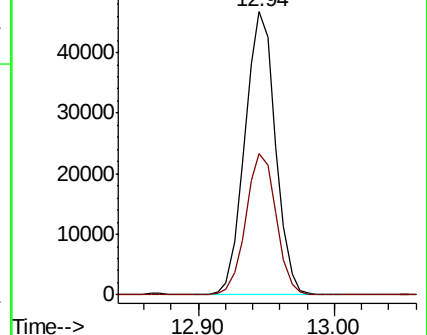
105 100

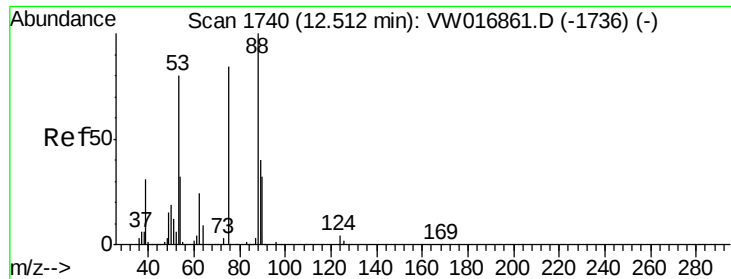
120 49.6 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 155.947 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

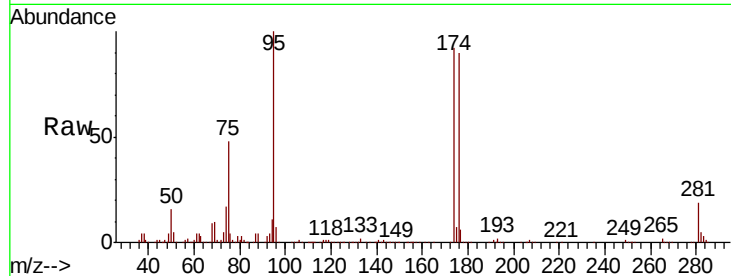
Tot Ion: 75 Resp: 111599

Ion Ratio Lower Upper

75 100

53 0.0 77.0 115.4#

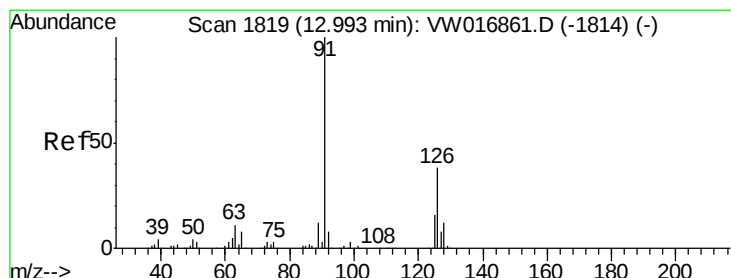
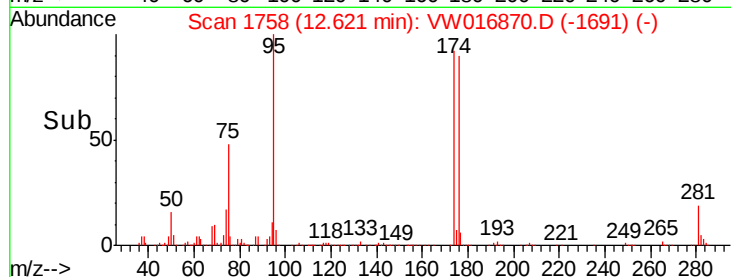
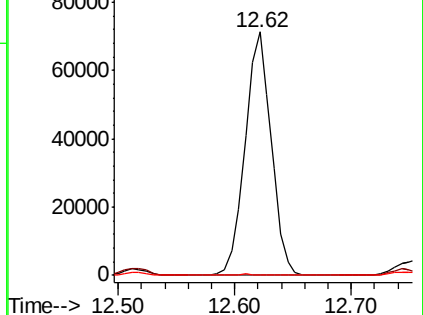
89 0.3 38.7 58.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 5.196 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW016870.D

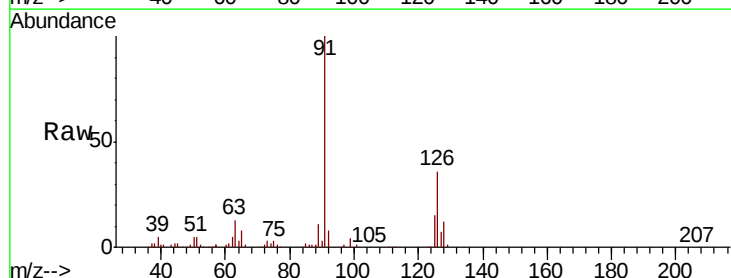
Acq: 09 Oct 2020 19:41

Tgt Ion: 91 Resp: 60462

Ion Ratio Lower Upper

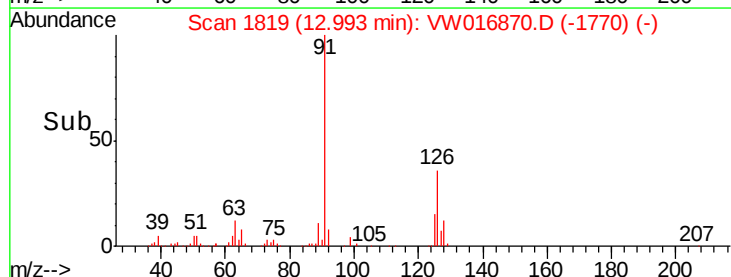
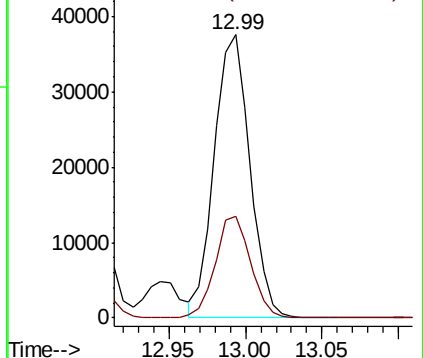
91 100

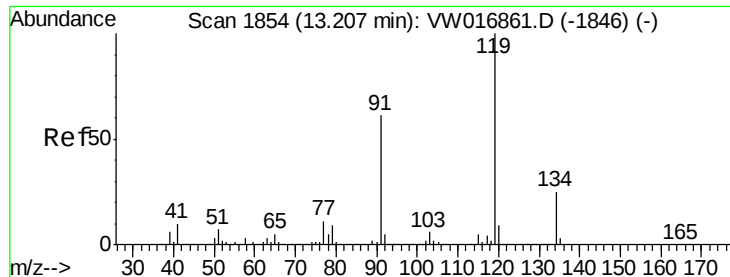
126 35.8 18.1 54.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

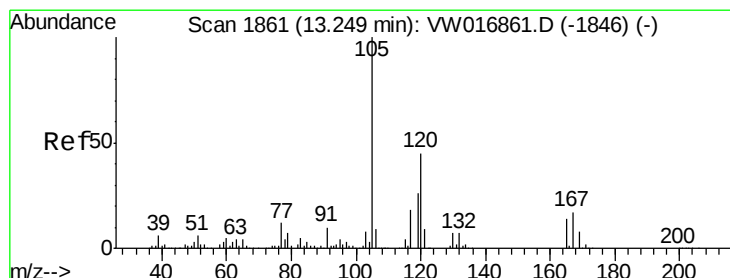
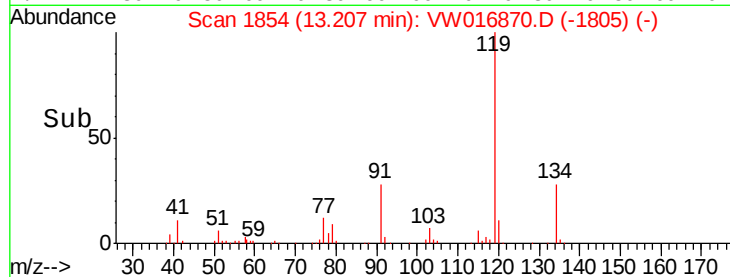
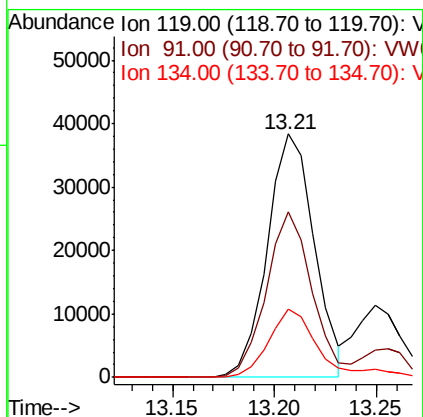
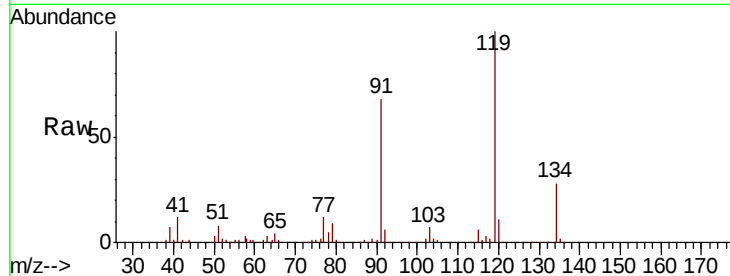




#83
tert-Butylbenzene
Concen: 4.951 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

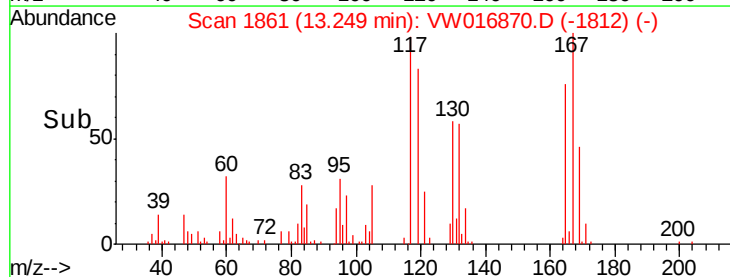
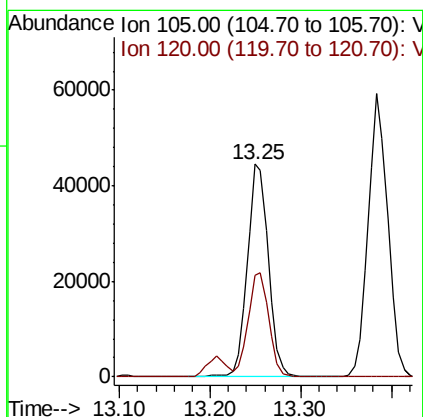
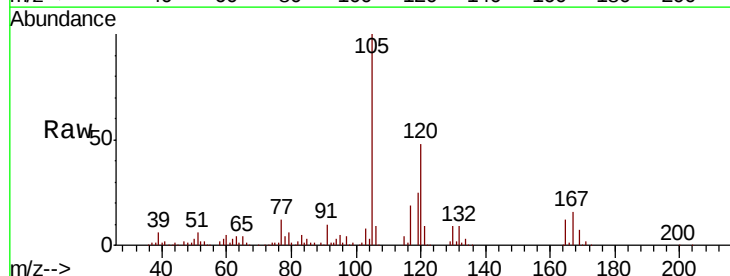
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

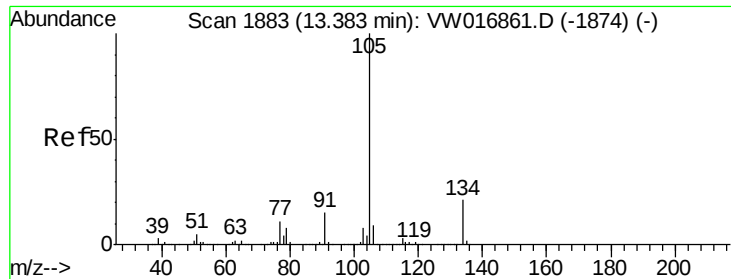
Tot Ion:119 Resp: 61746
Ion Ratio Lower Upper
119 100
91 66.4 31.3 93.9
134 29.9 14.0 42.0



#84
1,2,4-Trimethylbenzene
Concen: 5.001 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:105 Resp: 71551
Ion Ratio Lower Upper
105 100
120 48.0 23.4 70.0





#85

sec-Butylbenzene

Concen: 5.119 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

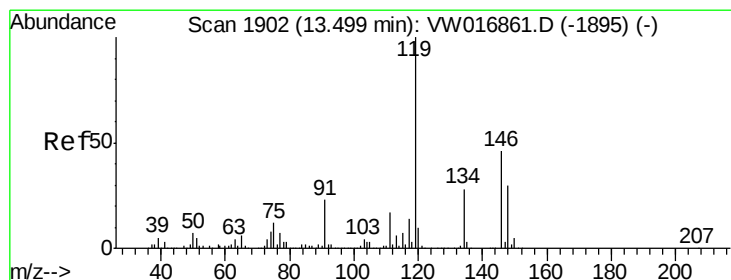
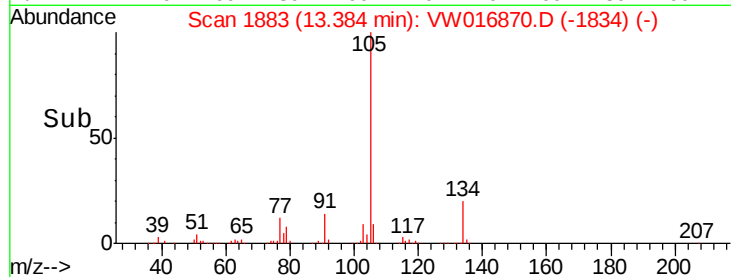
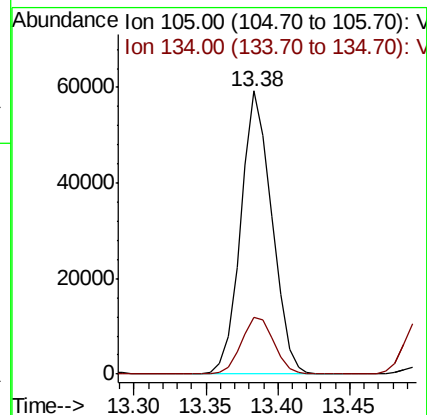
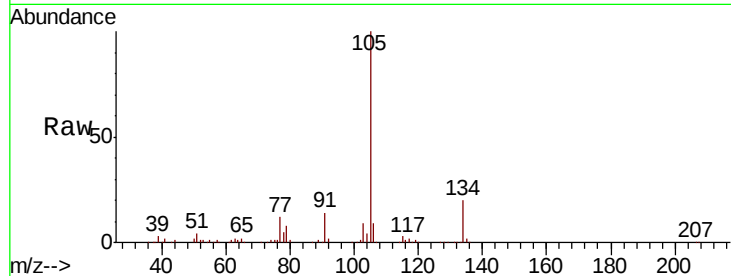
LOQ-SOIL-02-QT4-2020

Tot Ion:105 Resp: 88866

Ion Ratio Lower Upper

105 100

134 20.9 10.6 31.8



#86

p-Isopropyltoluene

Concen: 5.016 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

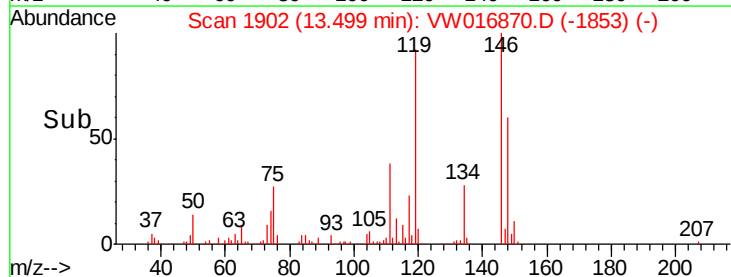
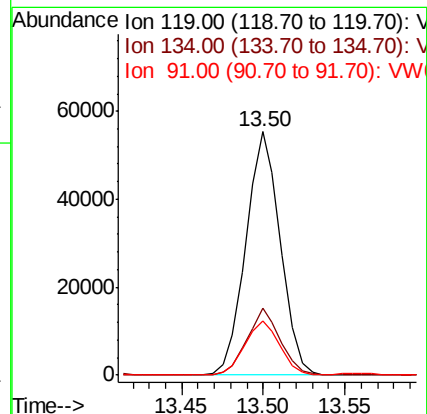
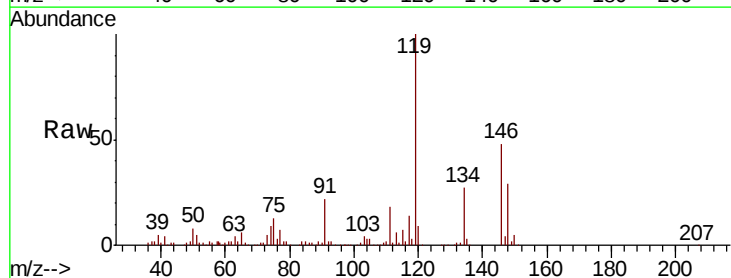
Tgt Ion:119 Resp: 81082

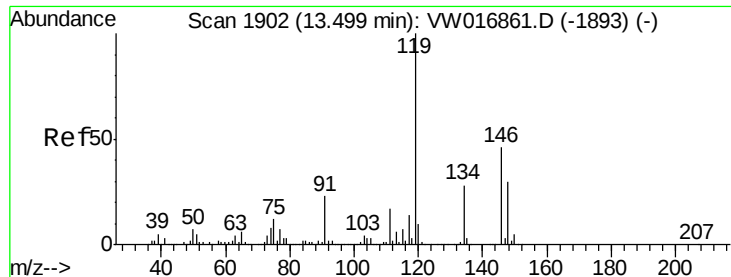
Ion Ratio Lower Upper

119 100

134 26.5 13.8 41.3

91 22.6 11.3 33.9

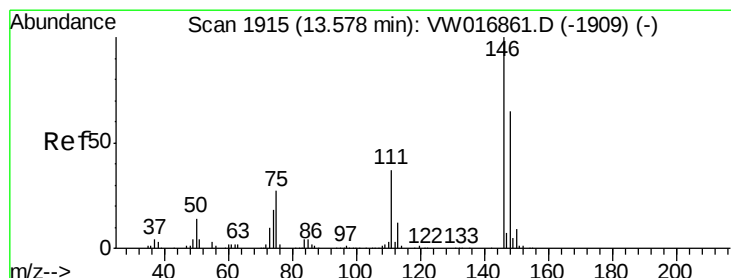
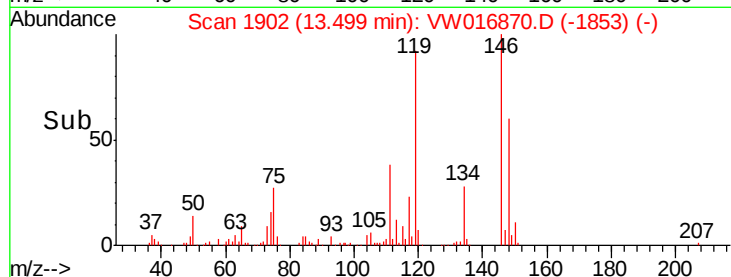
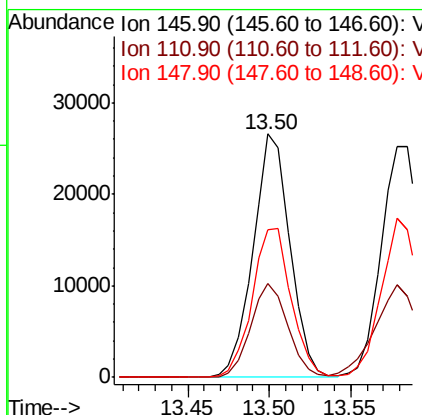
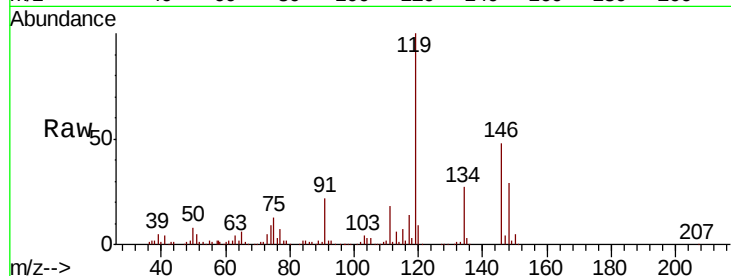




#87
 1,3-Dichlorobenzene
 Concen: 5.110 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

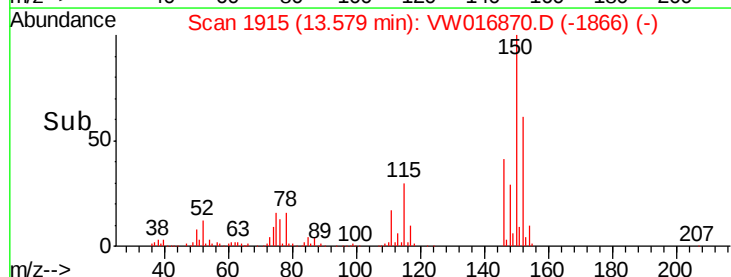
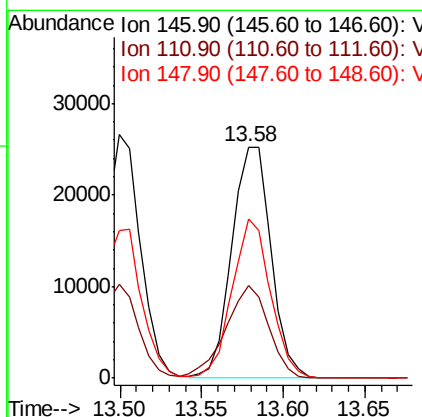
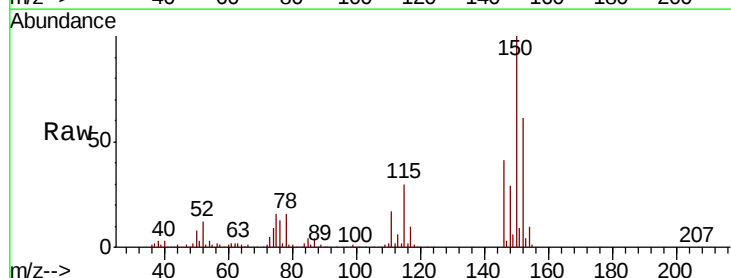
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

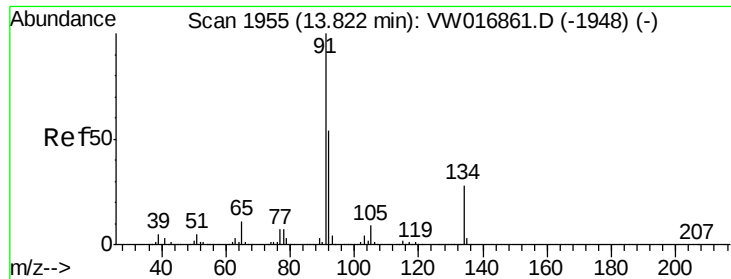
Tot Ion:146 Resp: 41850
 Ion Ratio Lower Upper
 146 100
 111 38.7 19.1 57.5
 148 64.3 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 5.267 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion:146 Resp: 42514
 Ion Ratio Lower Upper
 146 100
 111 43.6 18.5 55.5
 148 67.1 31.8 95.4





#89

n-Butylbenzene

Concen: 4.821 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

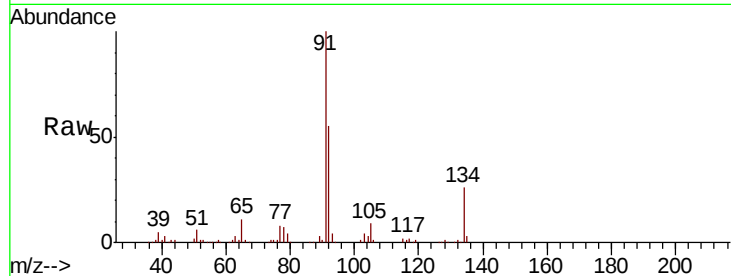
Tot Ion: 91 Resp: 70200

Ion Ratio Lower Upper

91 100

92 53.1 26.6 79.7

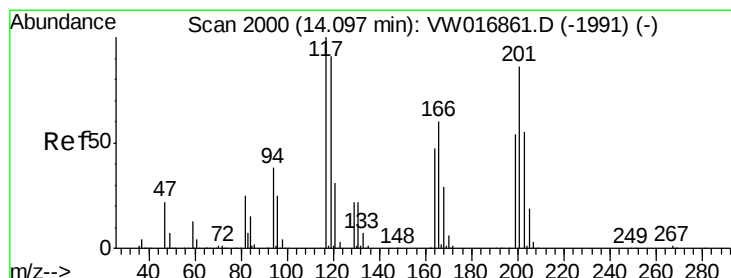
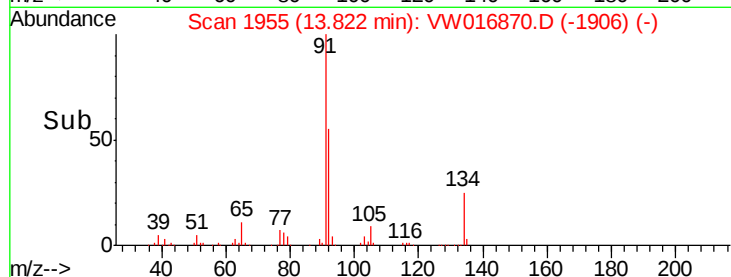
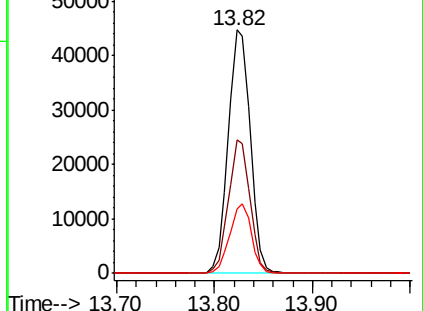
134 28.1 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 4.617 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW016870.D

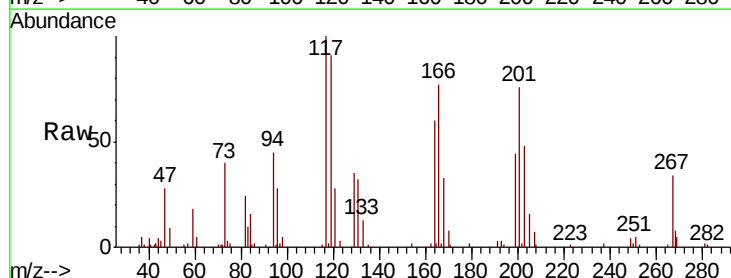
Acq: 09 Oct 2020 19:41

Tgt Ion: 117 Resp: 11515

Ion Ratio Lower Upper

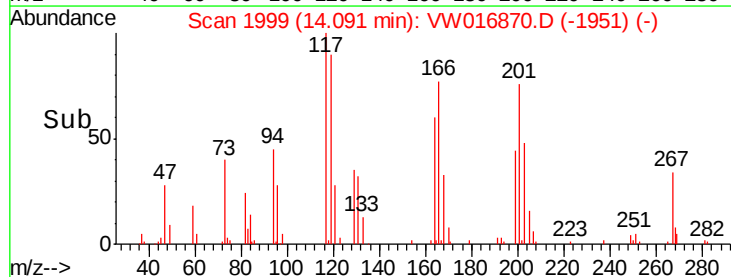
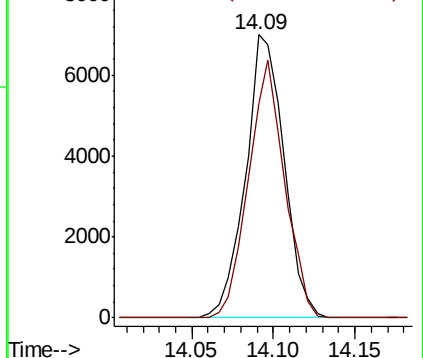
117 100

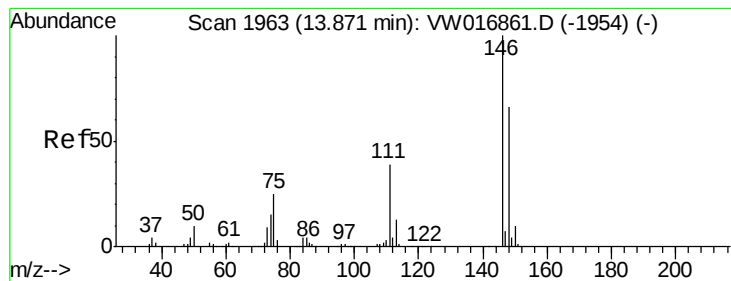
201 85.4 41.9 125.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 5.134 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2020

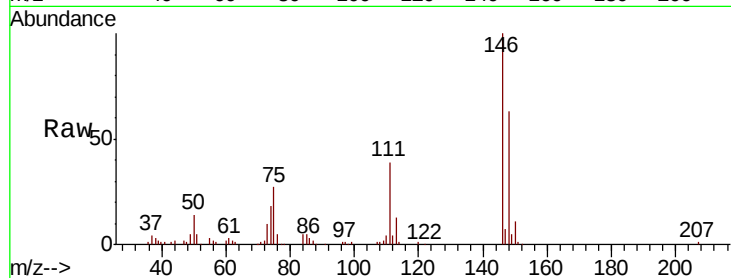
Tot Ion:146 Resp: 36281

Ion Ratio Lower Upper

146 100

111 40.8 20.1 60.3

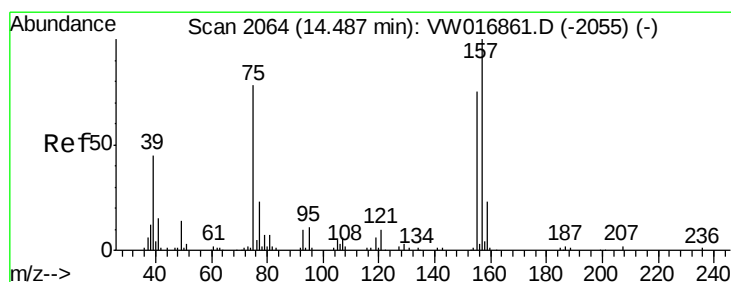
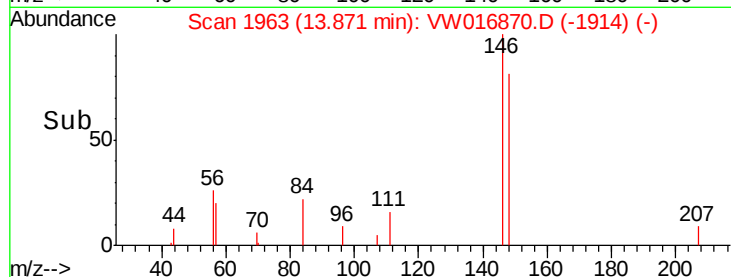
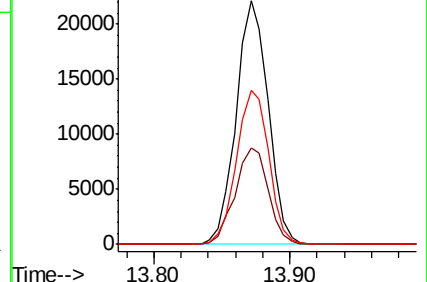
148 63.9 33.1 99.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.174 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW016870.D

Acq: 09 Oct 2020 19:41

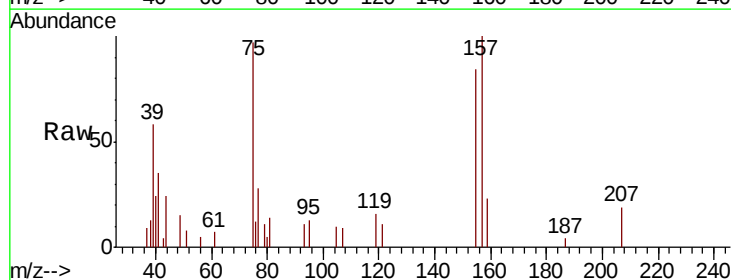
Tgt Ion: 75 Resp: 2130

Ion Ratio Lower Upper

75 100

155 91.4 47.6 142.8

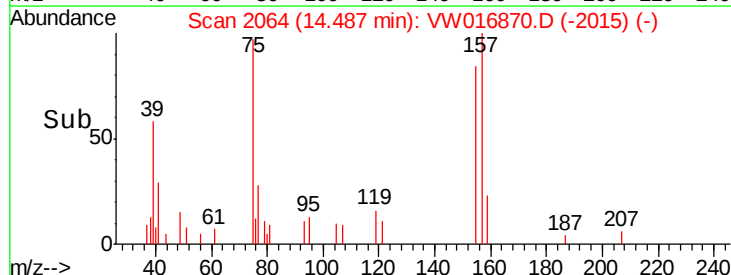
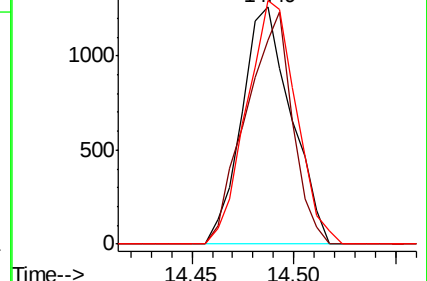
157 102.6 62.2 186.6

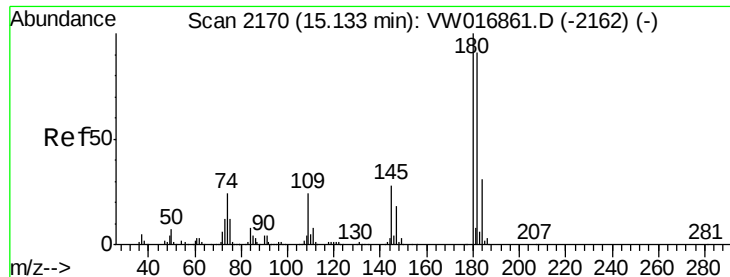


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

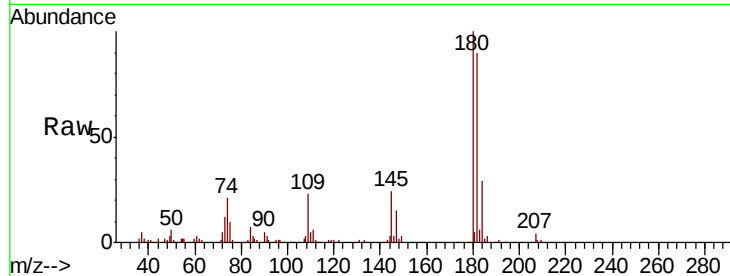




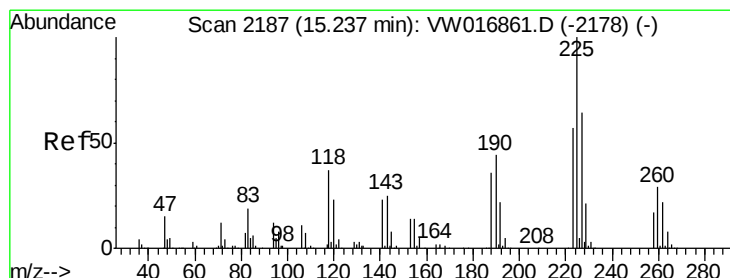
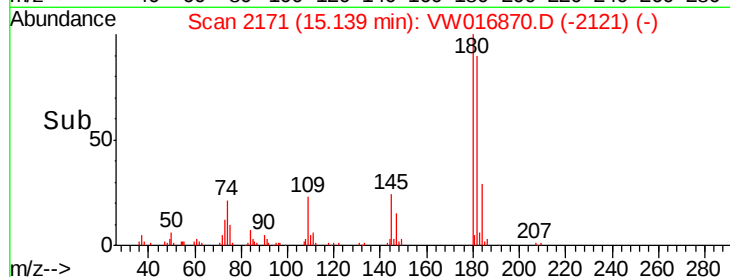
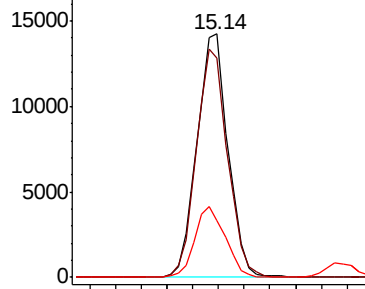
#93
 1,2,4-Trichlorobenzene
 Concen: 4.853 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2020

Tot Ion:180 Resp: 23662
 Ion Ratio Lower Upper
 180 100
 182 94.1 48.3 144.9
 145 28.8 14.9 44.5

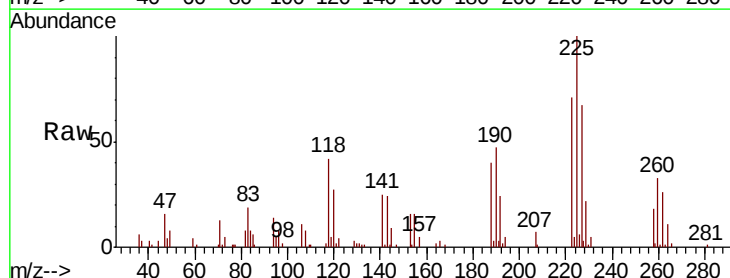


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

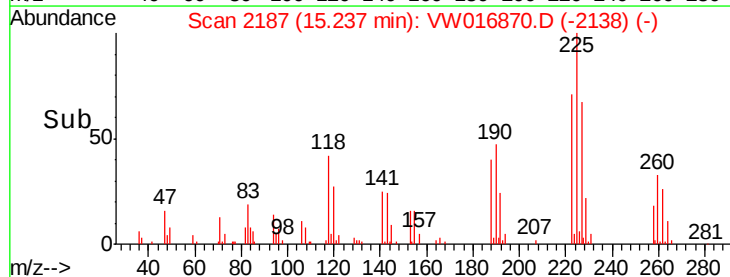
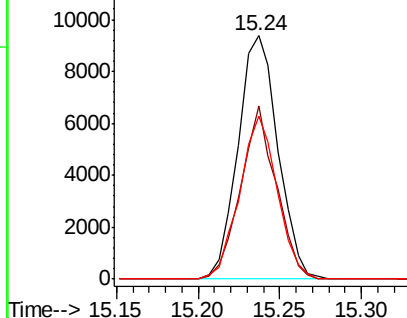


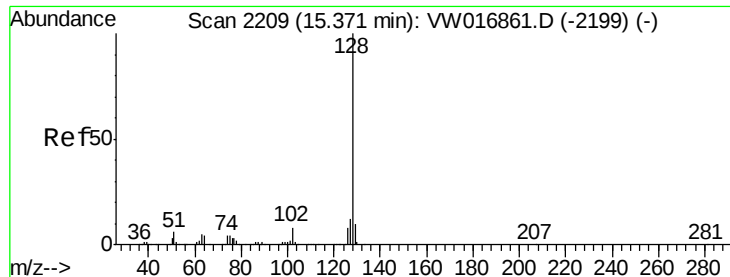
#94
 Hexachlorobutadiene
 Concen: 5.054 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW016870.D
 Acq: 09 Oct 2020 19:41

Tgt Ion:225 Resp: 15976
 Ion Ratio Lower Upper
 225 100
 223 63.2 31.9 95.7
 227 63.4 33.0 99.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

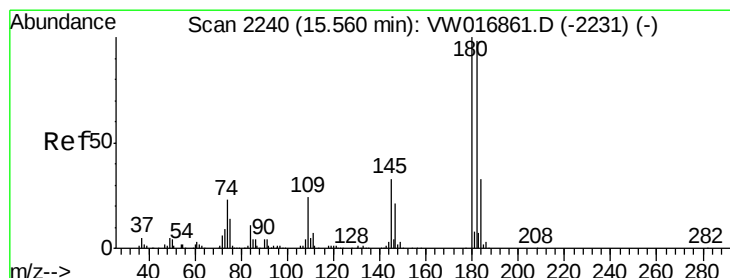
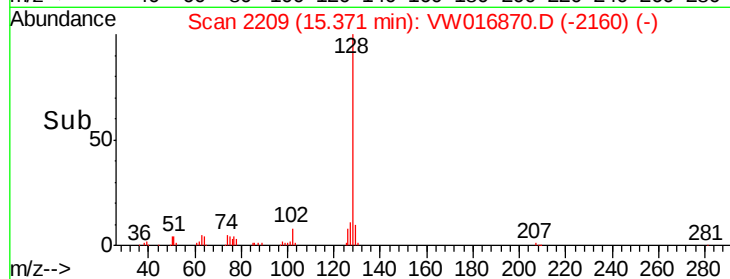
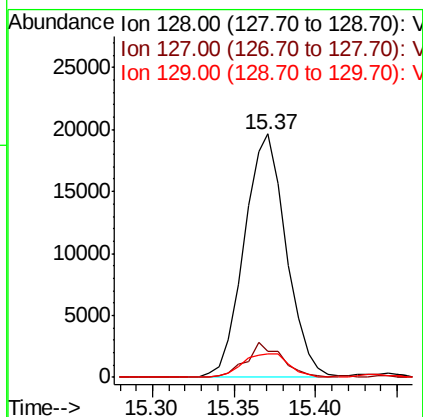
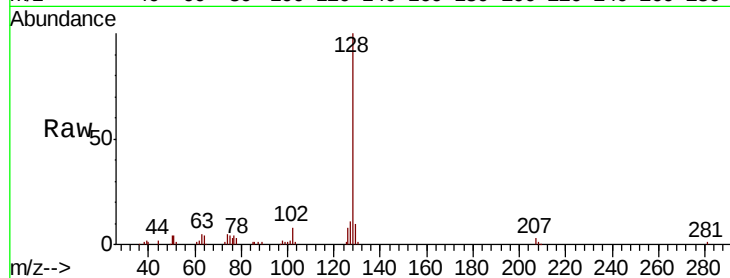




#95
Naphthalene
Concen: 4.434 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2020

Tot Ion:128 Resp: 35136
Ion Ratio Lower Upper
128 100
127 12.4 10.4 15.6
129 10.8 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 4.916 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW016870.D
Acq: 09 Oct 2020 19:41

Tgt Ion:180 Resp: 20855
Ion Ratio Lower Upper
180 100
182 98.1 49.4 148.2
145 30.2 16.3 48.9

