

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101020\
 Data File : VW016868.D
 Acq On : 09 Oct 2020 18:54
 Operator : SY/VA
 Sample : L4214-01 2.5PPBLOD
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

Quant Time: Oct 10 05:31:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101020S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 05:14:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	392801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	584116	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	515776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	257708	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	167171	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
35) Dibromofluoromethane	7.89	113	178835	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	10.33	98	685191	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
62) 4-Bromofluorobenzene	12.62	95	237415	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	5514	2.574	ug/l	100
3) Chloromethane	2.21	50	6968	2.966	ug/l	99
4) Vinyl Chloride	2.37	62	9001	2.650	ug/l	98
5) Bromomethane	2.78	94	7768	2.977	ug/l	96
6) Chloroethane	2.93	64	5483	2.536	ug/l	95
7) Trichlorofluoromethane	3.26	101	6102	2.467	ug/l	99
8) Diethyl Ether	3.68	74	3882	2.513	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.07	101	8716	2.617	ug/l	97
10) Methyl Iodide	4.28	142	13945	2.619	ug/l	98
11) Tert butyl alcohol	5.17	59	3507	22.460	ug/l #	92
12) 1,1-Dichloroethene	4.05	96	8274	2.517	ug/l	92
13) Acrolein	3.90	56	2630	12.459	ug/l	95
14) Allyl chloride	4.68	41	9946	2.528	ug/l	97
15) Acrylonitrile	5.38	53	6234	12.124	ug/l	92
16) Acetone	4.14	43	8703	16.818	ug/l	95
17) Carbon Disulfide	4.39	76	22054	2.522	ug/l	99
18) Methyl Acetate	4.68	43	4004	3.374	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	9672	2.730	ug/l	99
20) Methylene Chloride	4.92	84	21385	5.215	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	9581	2.596	ug/l #	87
22) Diisopropyl ether	6.31	45	18224	2.548	ug/l #	89
23) Vinyl Acetate	6.26	43	51975	11.343	ug/l	97
24) 1,1-Dichloroethane	6.21	63	14095	2.486	ug/l	96
25) 2-Butanone	7.18	43	9982	14.469	ug/l	91
26) 2,2-Dichloropropane	7.17	77	10832	3.122	ug/l	91
27) cis-1,2-Dichloroethene	7.17	96	10434	2.640	ug/l	96
28) Bromochloromethane	7.52	49	6284	2.769	ug/l	96
29) Tetrahydrofuran	7.54	42	4838	12.520	ug/l	95
30) Chloroform	7.68	83	15755	2.556	ug/l	92
31) Cyclohexane	7.96	56	17958	3.713	ug/l #	63
32) 1,1,1-Trichloroethane	7.88	97	13427	2.582	ug/l	97
36) 1,1-Dichloropropene	8.09	75	13452	2.664	ug/l	95
37) Ethyl Acetate	7.26	43	3960	2.400	ug/l #	80
38) Carbon Tetrachloride	8.07	117	12554	2.391	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	14384	2.498	ug/l	98
40) Benzene	8.33	78	35463	2.520	ug/l	99
41) Methacrylonitrile	7.49	41	2065	2.112	ug/l	93
42) 1,2-Dichloroethane	8.40	62	10215	2.654	ug/l	97
43) Isopropyl Acetate	8.43	43	7082	2.241	ug/l	92
44) Trichloroethene	9.10	130	11048	2.537	ug/l	98
45) 1,2-Dichloropropane	9.37	63	7668	2.390	ug/l	94
46) Dibromomethane	9.46	93	4459	2.430	ug/l	97
47) Bromodichloromethane	9.65	83	11252	2.466	ug/l	93
48) Methyl methacrylate	9.44	41	3449	2.368	ug/l	95
49) 1,4-Dioxane	9.47	88	1114	52.772	ug/l #	84
51) 4-Methyl-2-Pentanone	10.21	43	19821	12.397	ug/l	97
52) Toluene	10.39	92	24105	2.592	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	8808	2.120	ug/l	98
54) cis-1,3-Dichloropropene	10.08	75	11409	2.249	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	6533	2.501	ug/l	91
56) Ethyl methacrylate	10.65	69	6545	2.303	ug/l	94
57) 1,3-Dichloropropane	10.93	76	10913	2.525	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	18409	11.690	ug/l	98
59) 2-Hexanone	10.98	43	11675	11.036	ug/l	97
60) Dibromochloromethane	11.13	129	7523	2.348	ug/l	95
61) 1,2-Dibromoethane	11.24	107	6281	2.428	ug/l	100
64) Tetrachloroethene	10.87	164	9652	2.627	ug/l	95
65) Chlorobenzene	11.66	112	27127	2.681	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	8235	2.302	ug/l	96
67) Ethyl Benzene	11.73	91	44419	2.520	ug/l	96
68) m/p-Xylenes	11.84	106	33372	4.867	ug/l	98
69) o-Xylene	12.17	106	15368	2.443	ug/l	100
70) Styrene	12.18	104	24892	2.377	ug/l	100
71) Bromoform	12.35	173	3829	2.132	ug/l #	99
73) Isopropylbenzene	12.47	105	42545	2.484	ug/l	99
74) N-amyl acetate	12.28	43	6058	2.202	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.71	83	6493	2.416	ug/l	94
76) 1,2,3-Trichloropropane	12.77	75	8173	4.250	ug/l #	1
77) Bromobenzene	12.75	156	11370	2.685	ug/l	96
78) n-propylbenzene	12.80	91	50607	2.562	ug/l	99
79) 2-Chlorotoluene	12.90	91	30152	2.676	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	35885	2.500	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	116054	162.222	ug/l #	11
82) 4-Chlorotoluene	12.99	91	30679	2.637	ug/l	97
83) tert-Butylbenzene	13.21	119	32167	2.580	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	36152	2.527	ug/l	99
85) sec-Butylbenzene	13.38	105	44218	2.548	ug/l	98
86) p-Isopropyltoluene	13.50	119	39690	2.456	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	22360	2.731	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	22288	2.762	ug/l	89
89) n-Butylbenzene	13.82	91	35393	2.431	ug/l	100
90) Hexachloroethane	14.10	117	6141	2.463	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	19105	2.704	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.48	75	967	2.350	ug/l	89

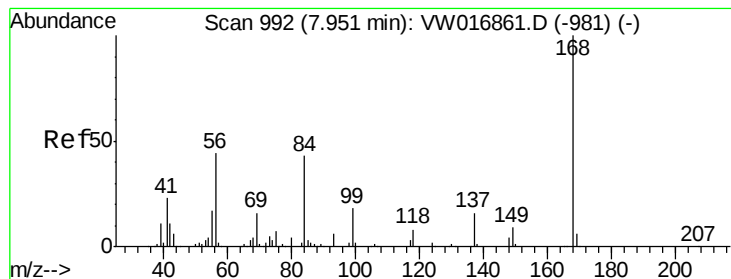
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	12874	2.641	ug/l	94
94) Hexachlorobutadiene	15.24	225	8428	2.667	ug/l	96
95) Naphthalene	15.36	128	18026	2.275	ug/l	97
96) 1,2,3-Trichlorobenzene	15.55	180	11333	2.672	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: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

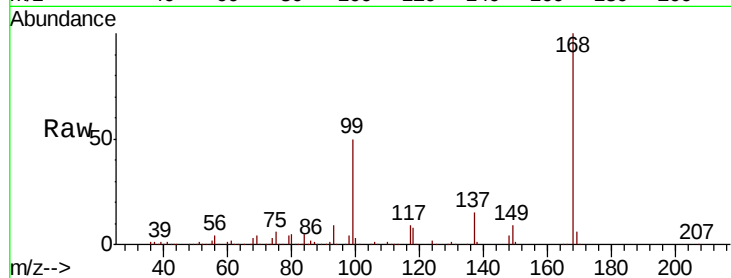
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:168 Resp: 392801

Ion Ratio Lower Upper

168 100

99 50.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

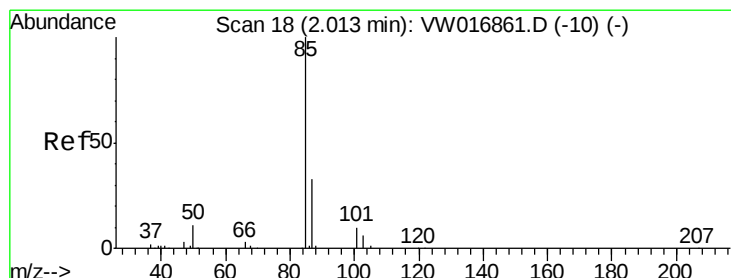
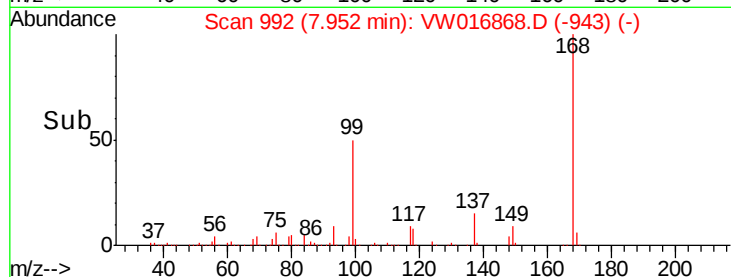
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 2.574 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW016868.D

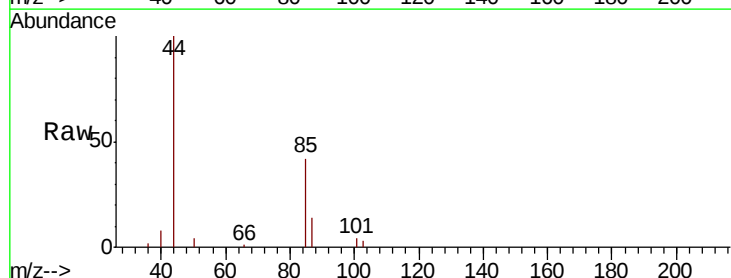
Acq: 09 Oct 2020 18:54

Tgt Ion: 85 Resp: 5514

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2500

2000

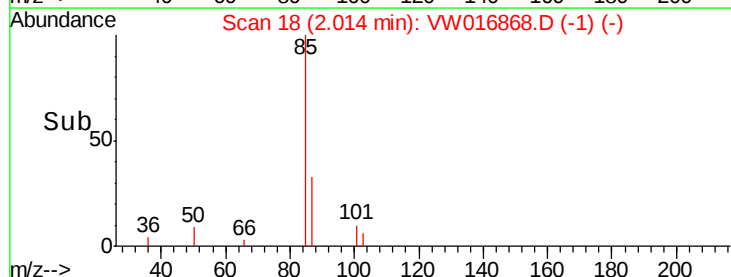
1500

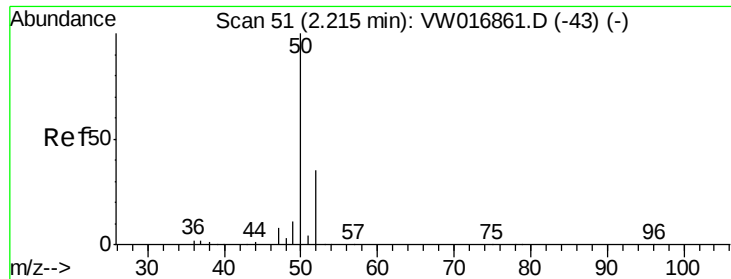
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 2.966 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

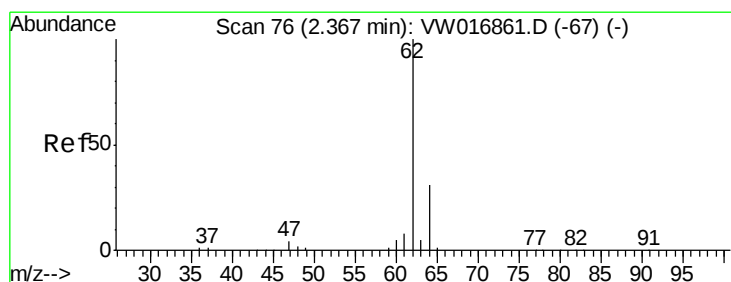
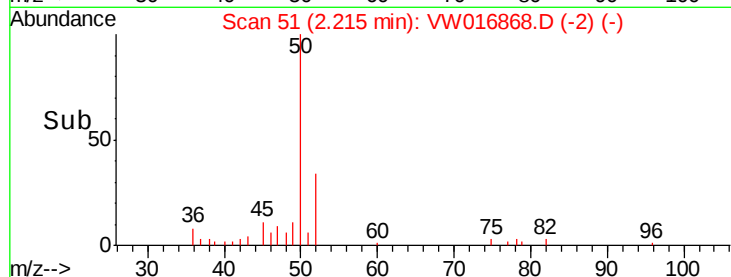
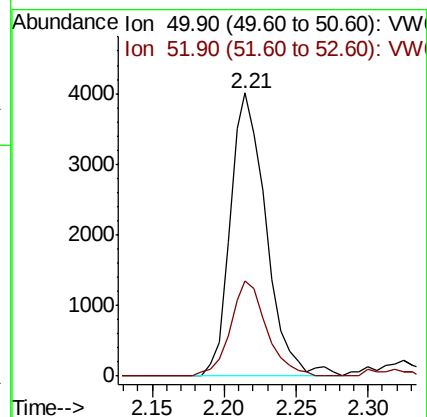
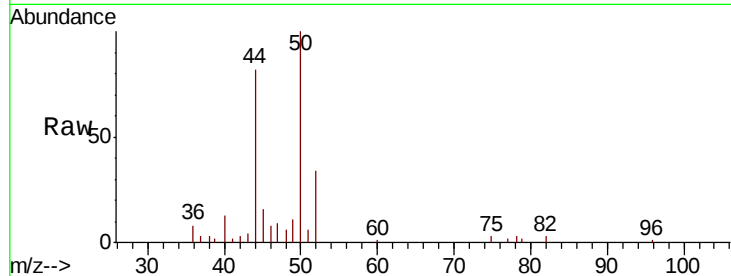
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 50 Resp: 6968

Ion Ratio Lower Upper

50 100

52 33.8 27.6 41.4



#4

Vinyl Chloride

Concen: 2.650 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016868.D

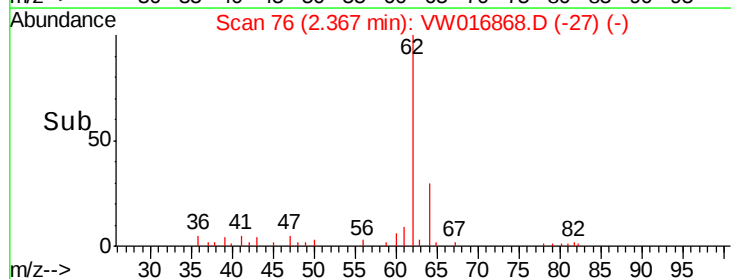
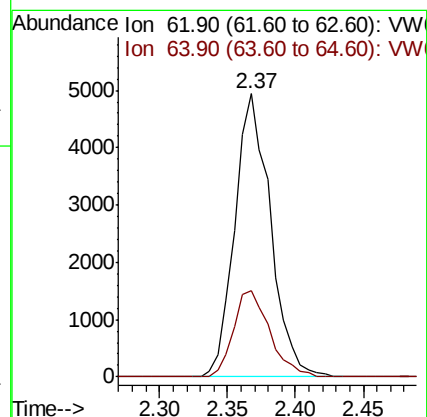
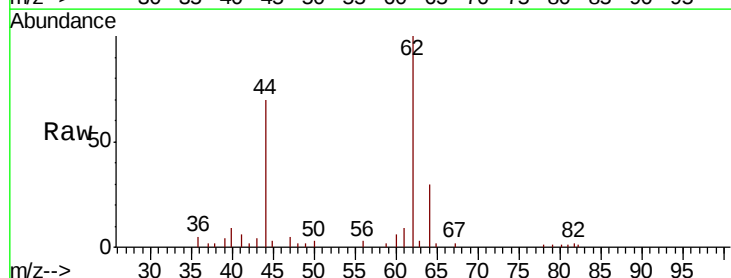
Acq: 09 Oct 2020 18:54

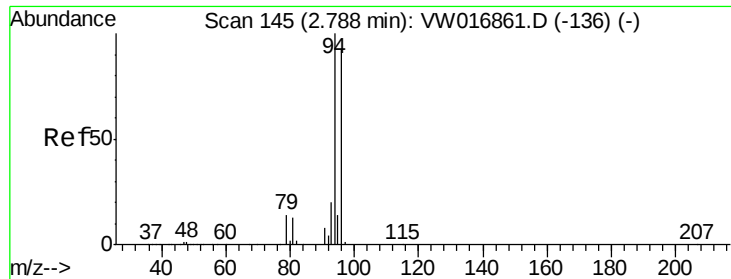
Tgt Ion: 62 Resp: 9001

Ion Ratio Lower Upper

62 100

64 30.3 25.0 37.4





#5

Bromomethane

Concen: 2.977 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

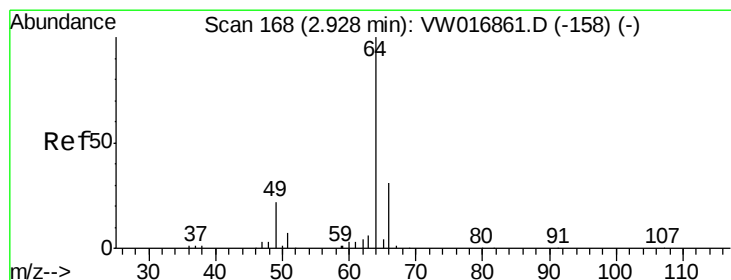
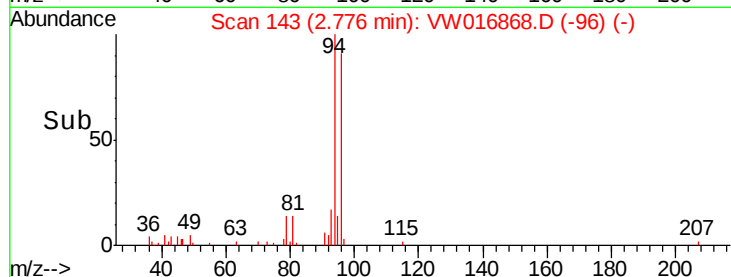
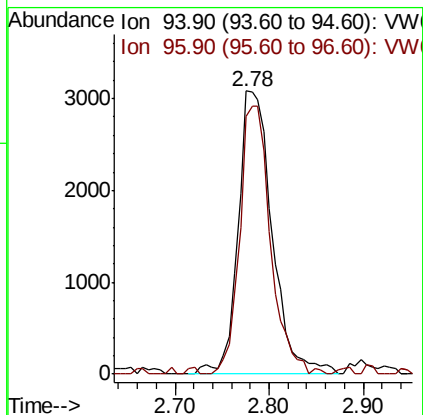
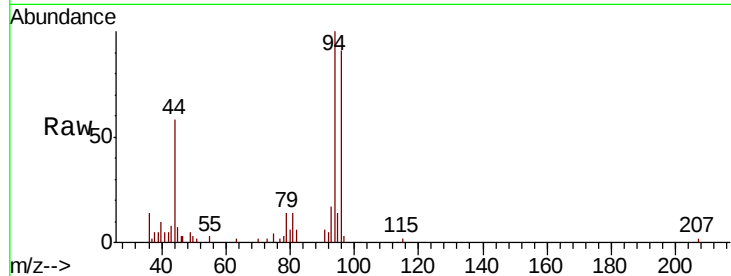
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 94 Resp: 7768

Ion Ratio Lower Upper

94 100

96 89.5 74.7 112.1



#6

Chloroethane

Concen: 2.536 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016868.D

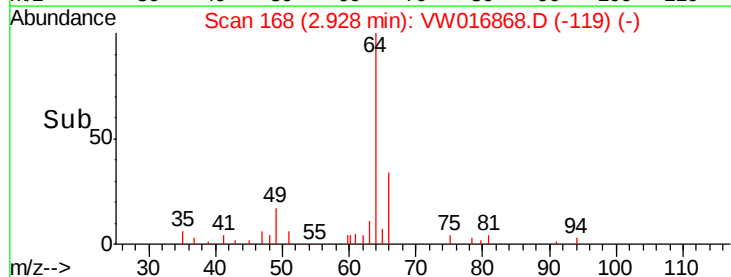
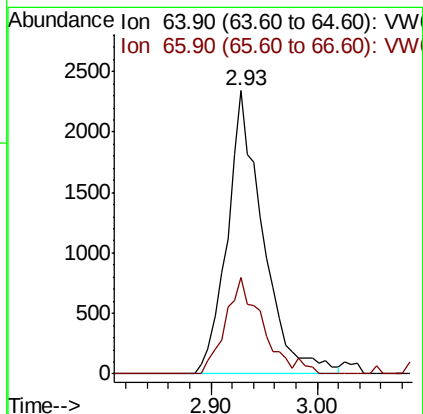
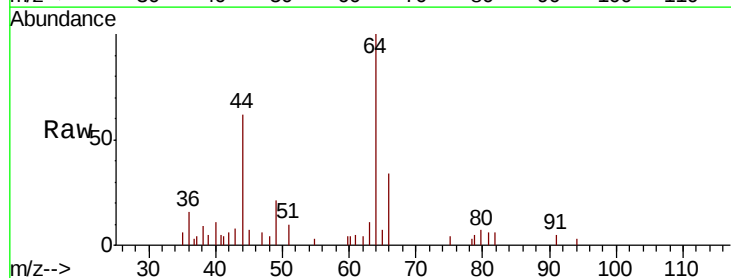
Acq: 09 Oct 2020 18:54

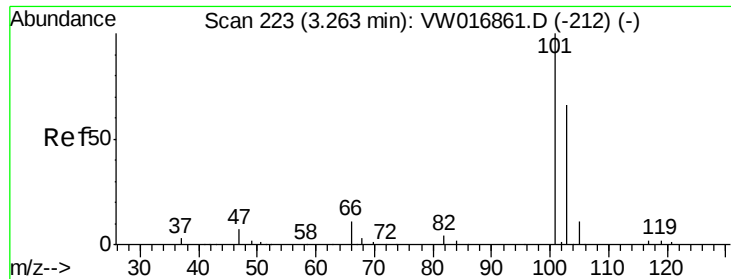
Tgt Ion: 64 Resp: 5483

Ion Ratio Lower Upper

64 100

66 34.3 25.0 37.6



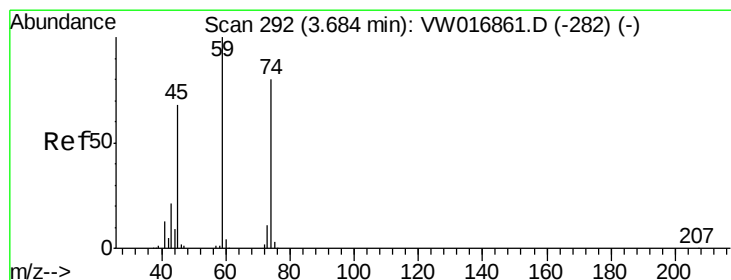
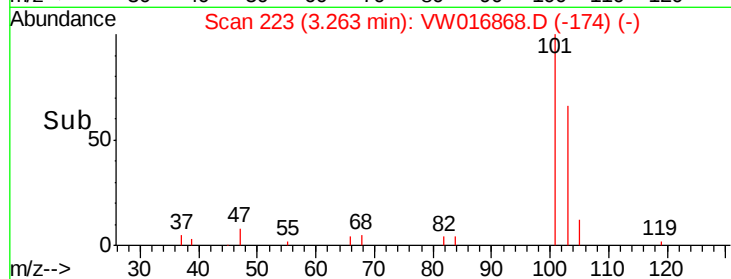
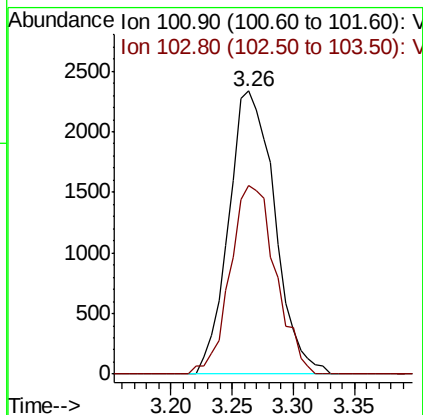
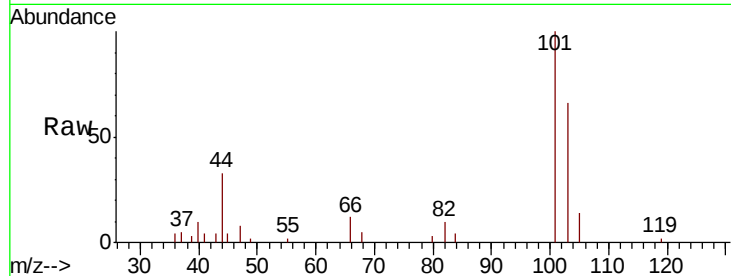


#7

Trichlorofluoromethane
 Concen: 2.467 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Instrument :
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 LOD-MDL-SOIL-01-QT4-2020

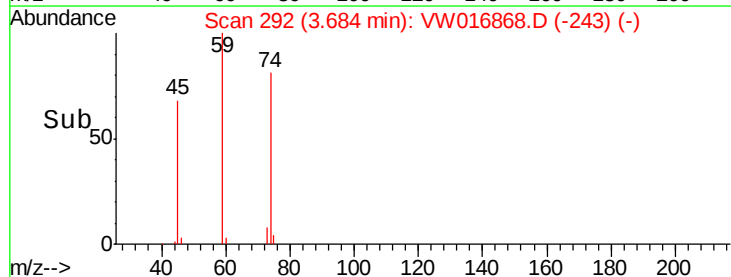
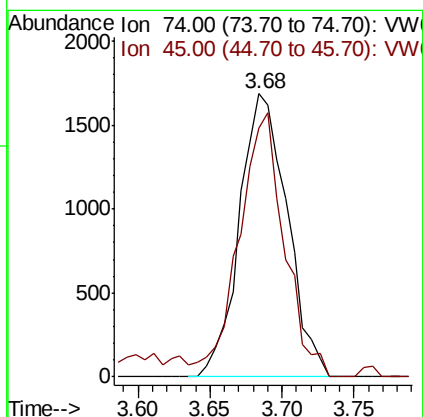
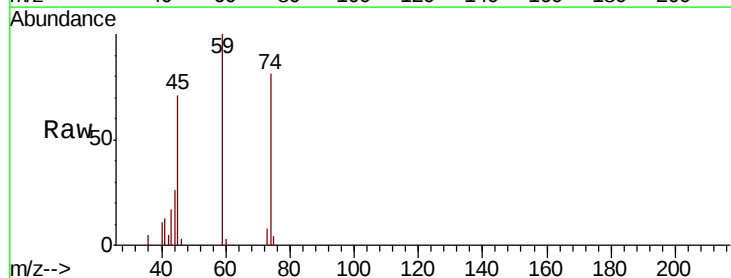
Tot Ion:101 Resp: 6102
 Ion Ratio Lower Upper
 101 100
 103 66.5 52.6 79.0

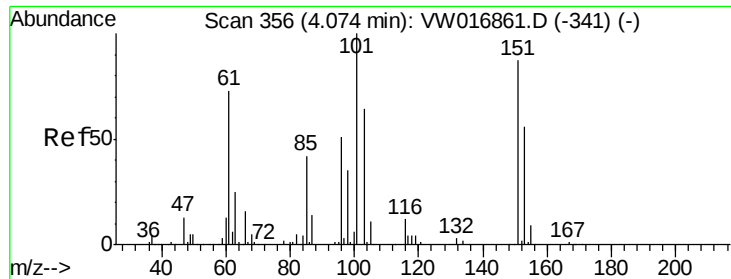


#8

Diethyl Ether
 Concen: 2.513 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 74 Resp: 3882
 Ion Ratio Lower Upper
 74 100
 45 88.5 41.1 123.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.617 ug/l

RT: 4.07 min Scan# 356

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

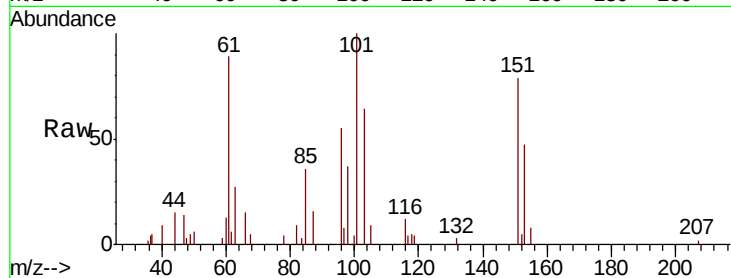
Tot Ion:101 Resp: 8716

Ion Ratio Lower Upper

101 100

85 37.7 33.2 49.8

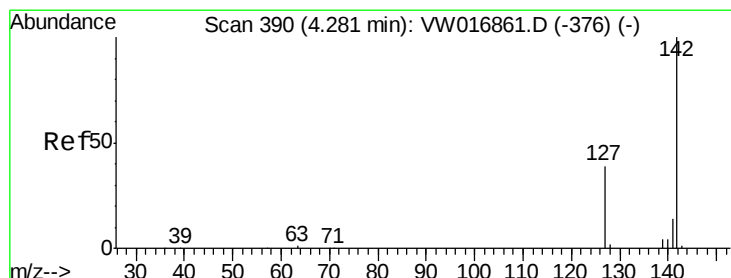
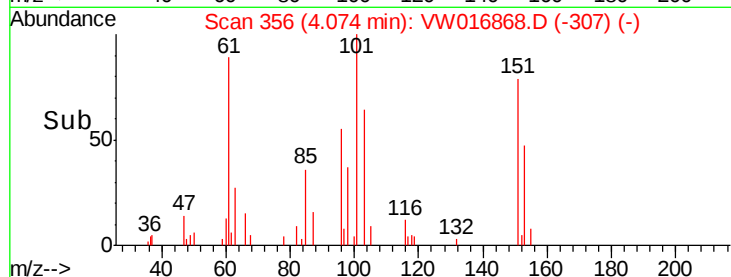
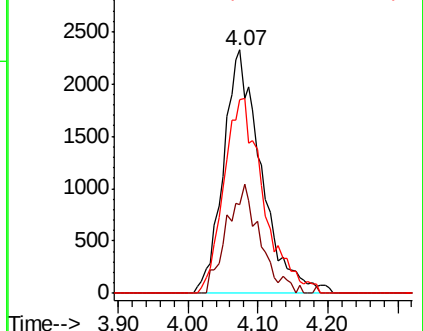
151 84.0 66.6 100.0



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: 2.619 ug/l

RT: 4.28 min Scan# 389

Delta R.T. -0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

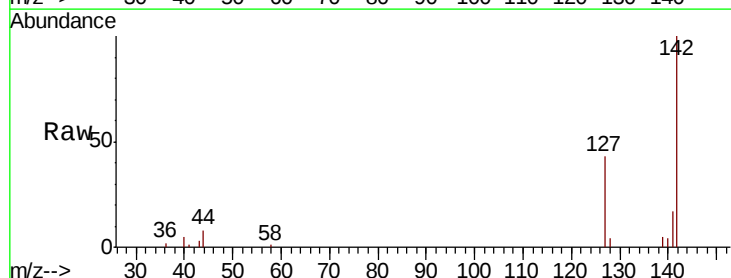
Tgt Ion:142 Resp: 13945

Ion Ratio Lower Upper

142 100

127 39.3 32.4 48.6

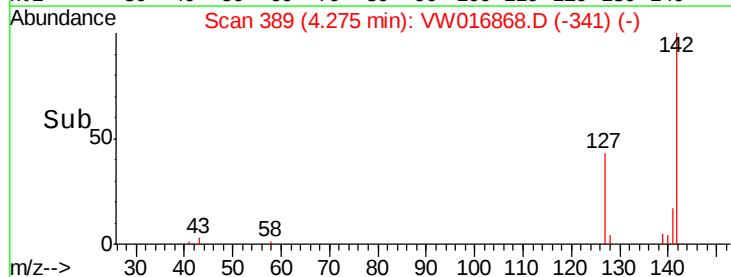
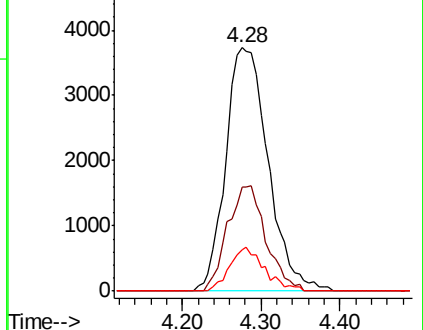
141 14.7 11.4 17.0

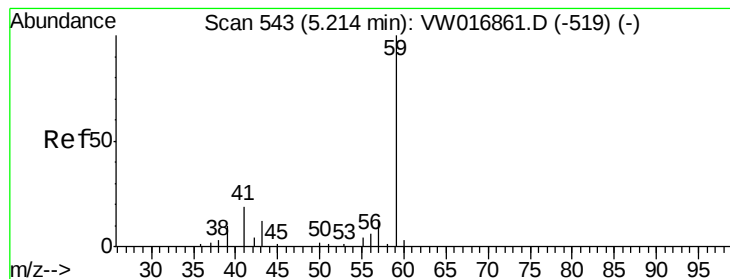


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



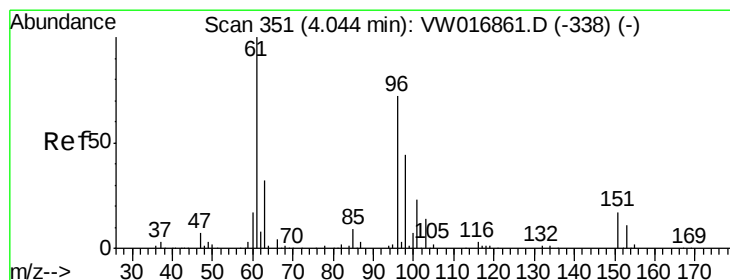
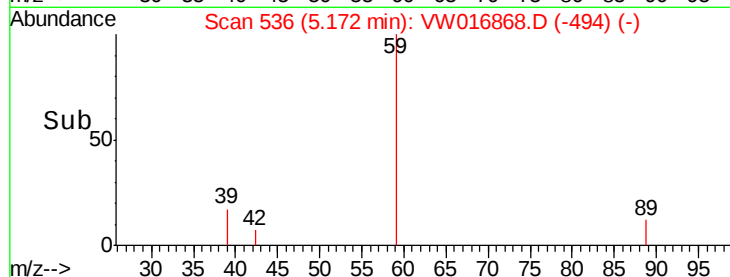
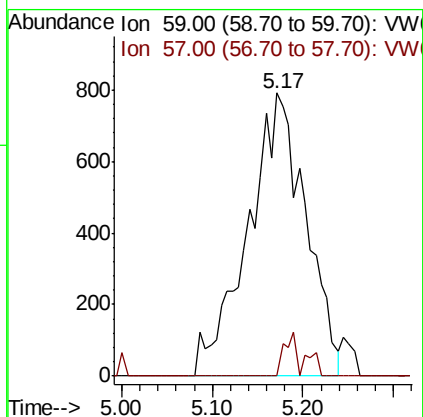
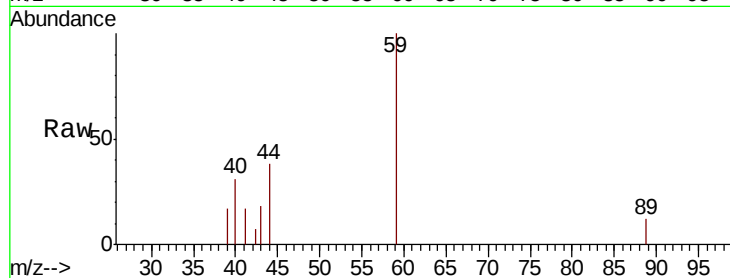


#11

Tert butyl alcohol
Concen: 22.460 ug/l
RT: 5.17 min Scan# 536
Delta R.T. -0.04 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

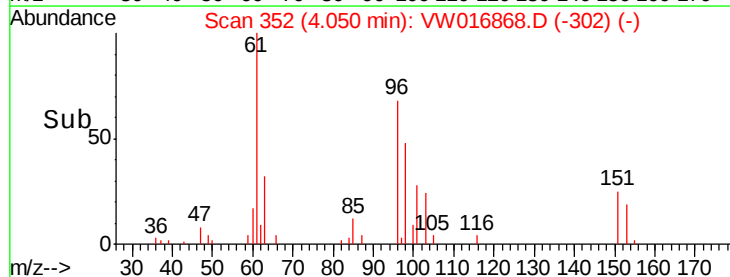
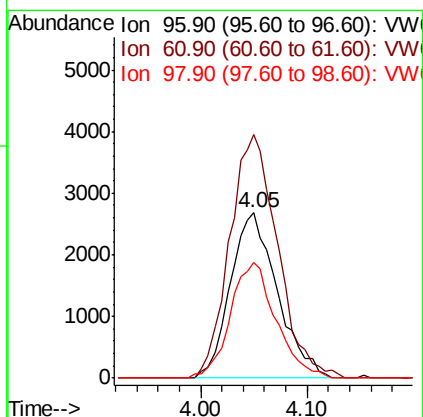
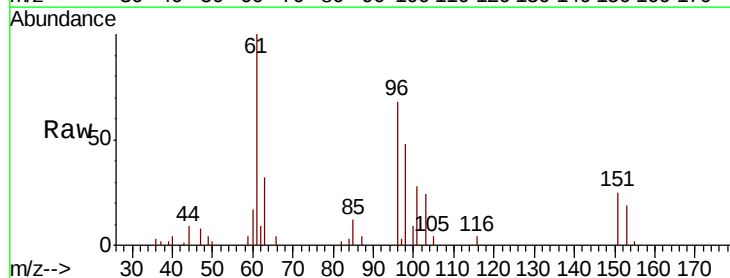
Tot Ion: 59 Resp: 3507
Ion Ratio Lower Upper
59 100
57 3.1 4.7 7.1#

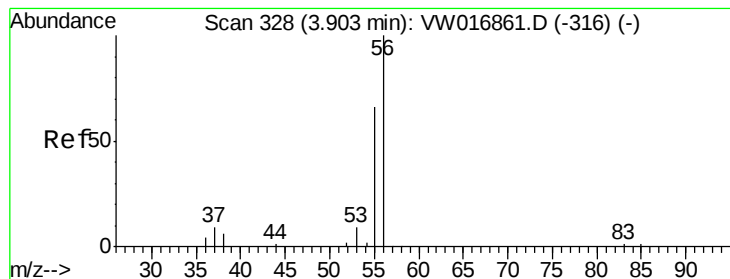


#12

1,1-Dichloroethene
Concen: 2.517 ug/l
RT: 4.05 min Scan# 352
Delta R.T. 0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 96 Resp: 8274
Ion Ratio Lower Upper
96 100
61 147.6 111.7 167.5
98 70.4 49.0 73.4





#13

Acrolein

Concen: 12.459 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

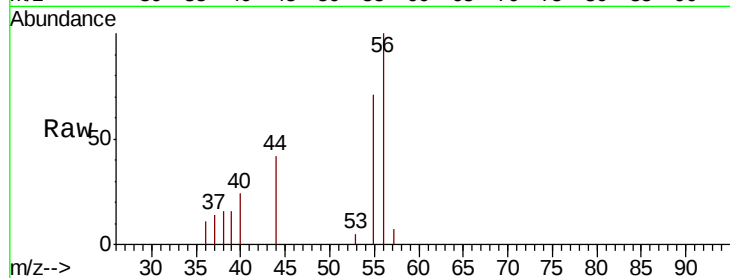
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 56 Resp: 2630

Ion Ratio Lower Upper

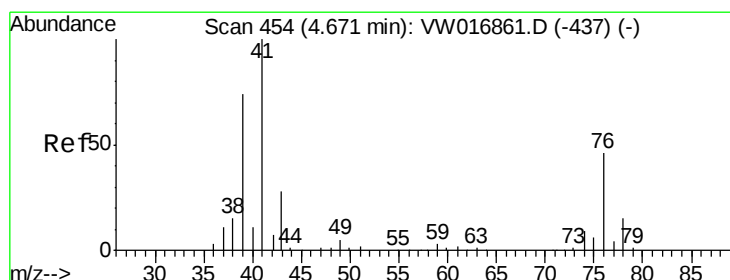
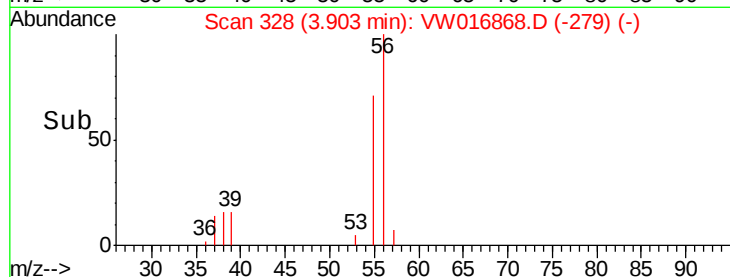
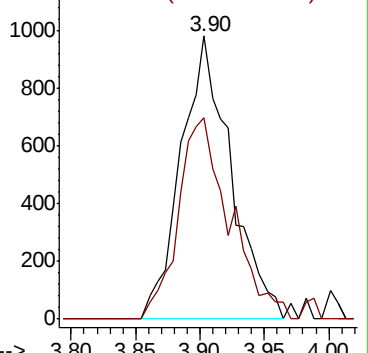
56 100

55 73.6 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 2.528 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

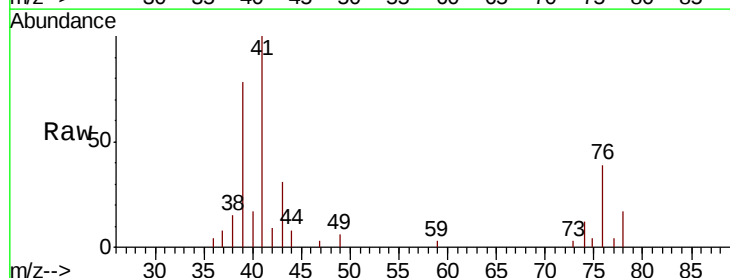
Tgt Ion: 41 Resp: 9946

Ion Ratio Lower Upper

41 100

39 75.3 57.8 86.8

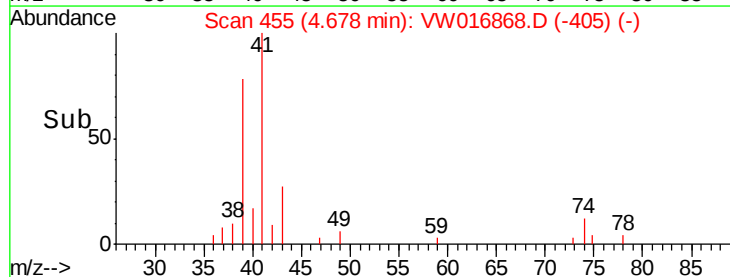
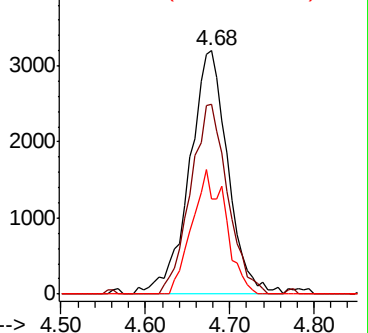
76 44.3 35.1 52.7

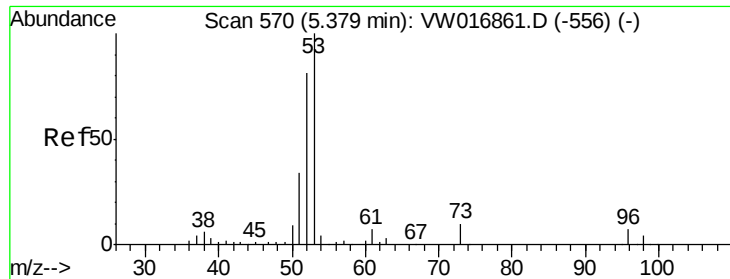


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 12.124 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

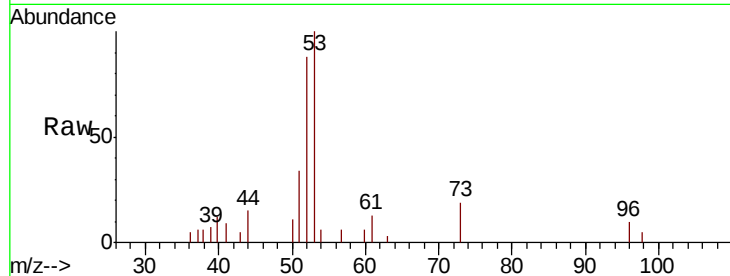
Tot Ion: 53 Resp: 6234

Ion Ratio Lower Upper

53 100

52 89.3 65.0 97.4

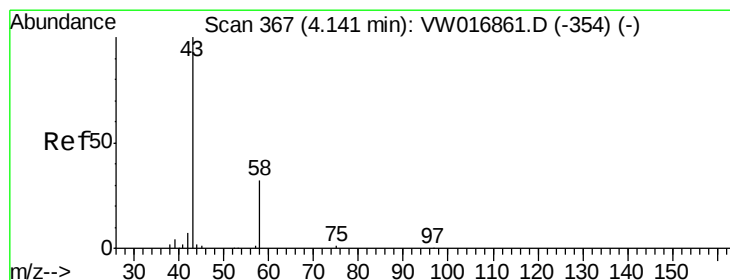
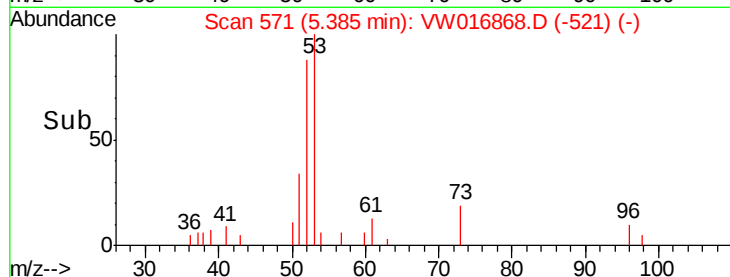
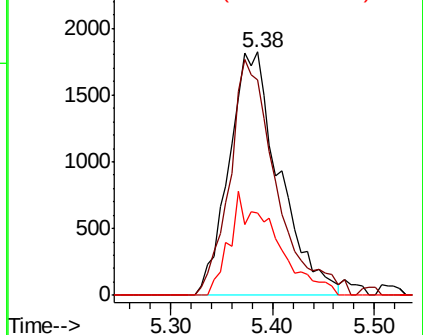
51 39.1 29.1 43.7



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 16.818 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW016868.D

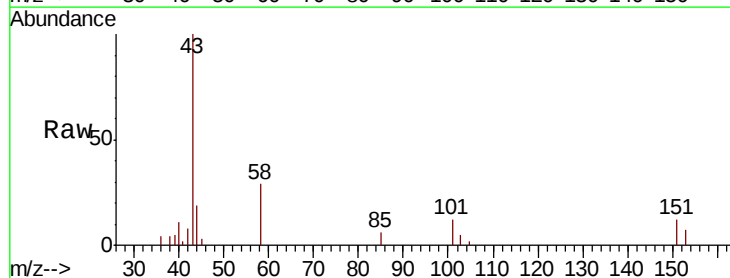
Acq: 09 Oct 2020 18:54

Tgt Ion: 43 Resp: 8703

Ion Ratio Lower Upper

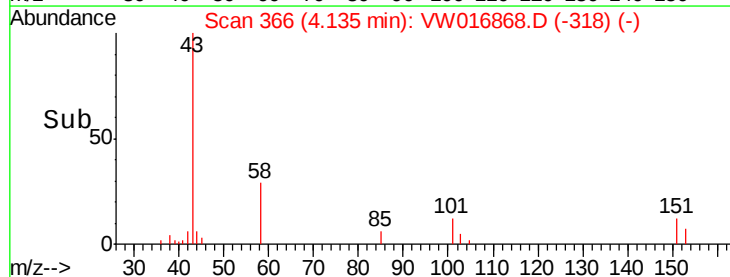
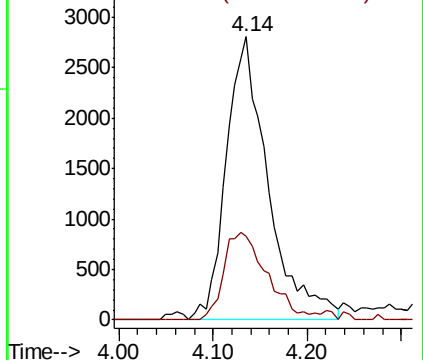
43 100

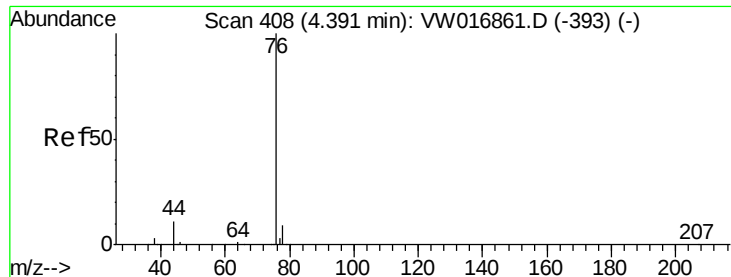
58 29.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 2.522 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

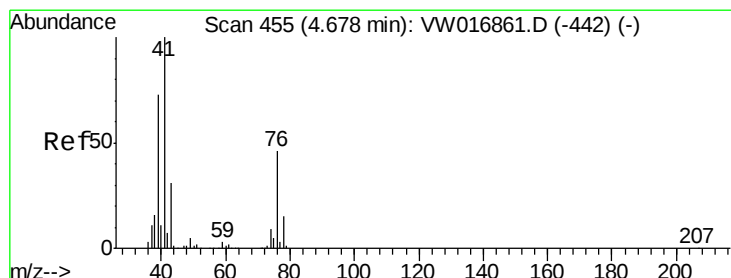
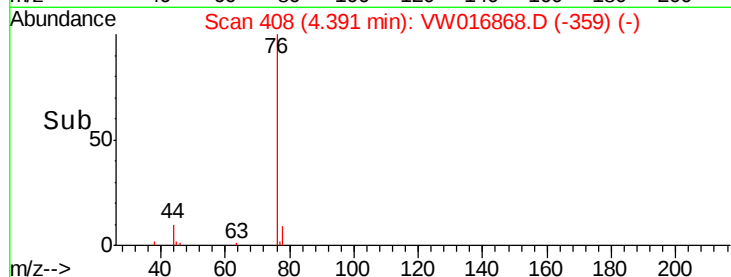
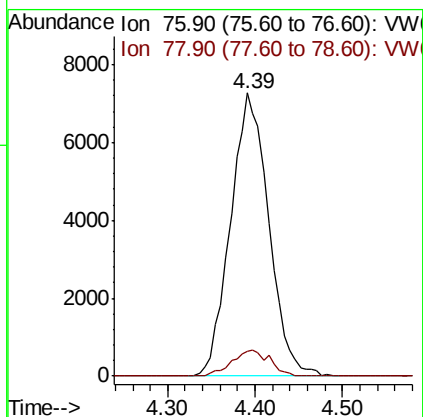
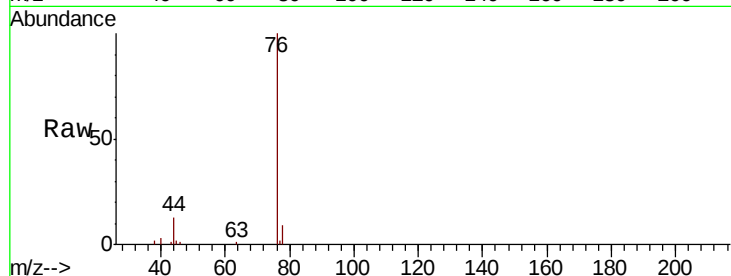
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 76 Resp: 22054

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2



#18

Methyl Acetate

Concen: 3.374 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW016868.D

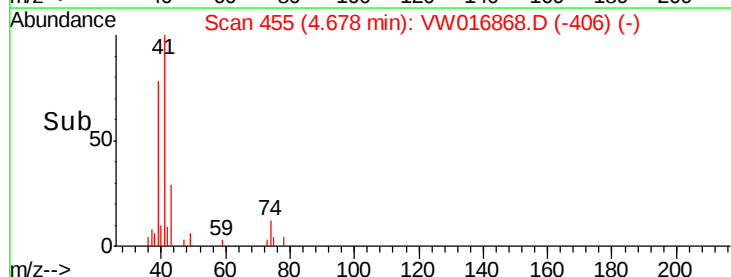
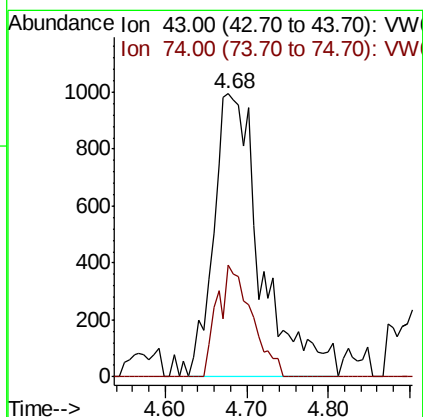
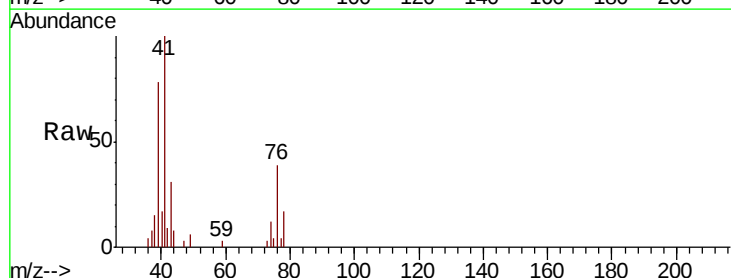
Acq: 09 Oct 2020 18:54

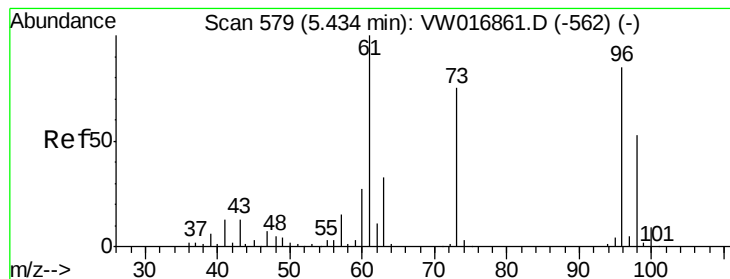
Tgt Ion: 43 Resp: 4004

Ion Ratio Lower Upper

43 100

74 28.8 23.8 35.6



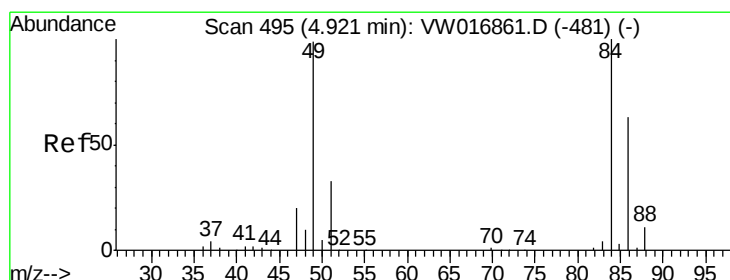
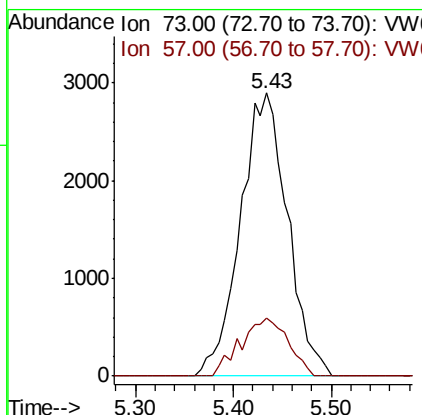
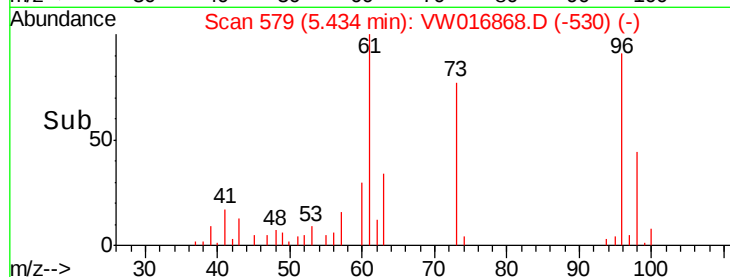
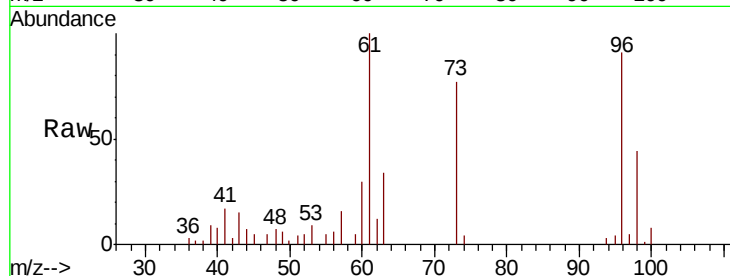


#19

Methyl tert-butyl Ether
 Concen: 2.730 ug/l
 RT: 5.43 min Scan# 579
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

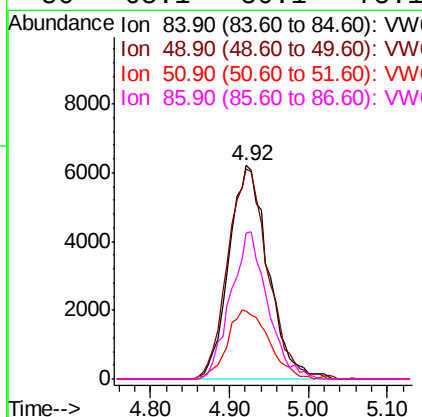
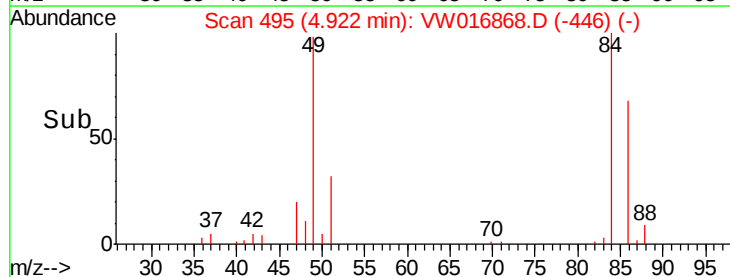
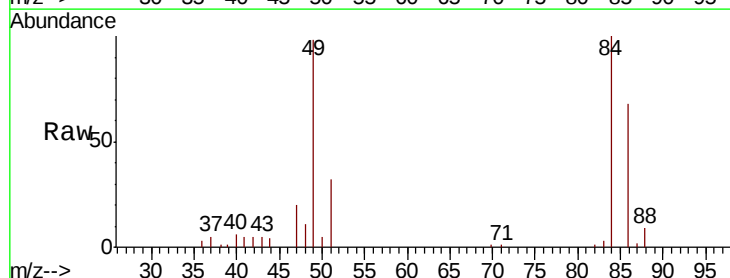
Tot Ion: 73 Resp: 9672
 Ion Ratio Lower Upper
 73 100
 57 20.4 16.1 24.1

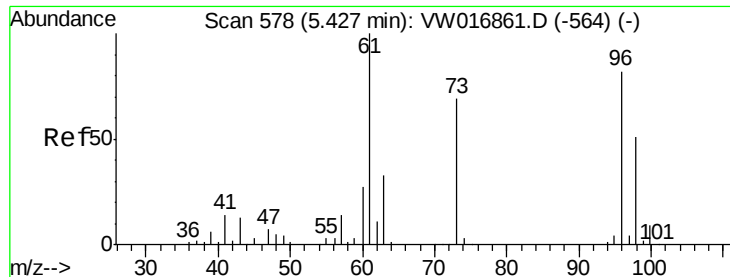


#20

Methylene Chloride
 Concen: 5.215 ug/l
 RT: 4.92 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 84 Resp: 21385
 Ion Ratio Lower Upper
 84 100
 49 98.3 79.0 118.6
 51 32.0 26.1 39.1
 86 68.1 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 2.596 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

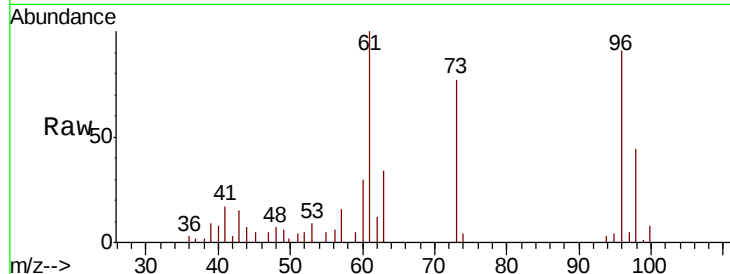
Tot Ion: 96 Resp: 9581

Ion Ratio Lower Upper

96 100

61 110.0 97.4 146.0

98 48.0 49.4 74.0#

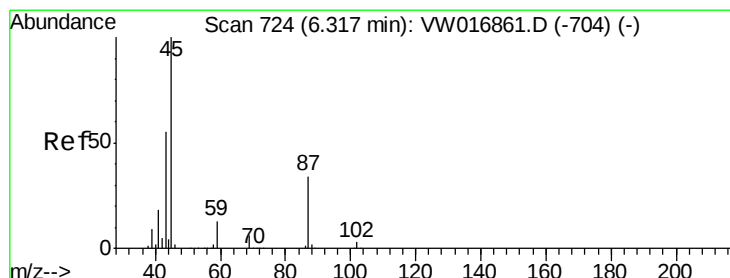
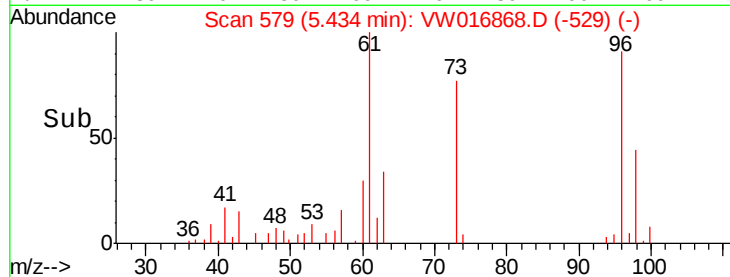
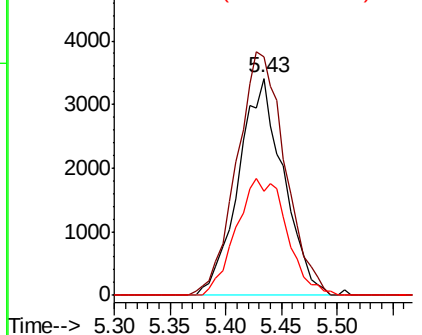


Abundance

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: 2.548 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Tgt Ion: 45 Resp: 18224

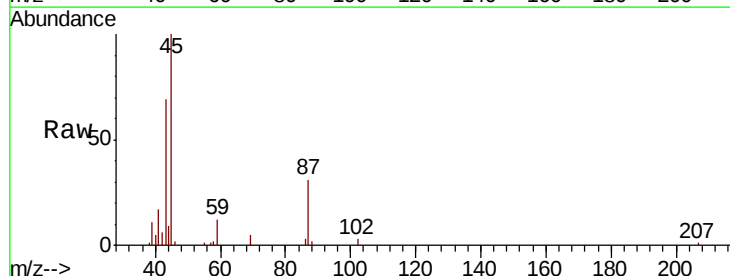
Ion Ratio Lower Upper

45 100

43 66.9 43.8 65.8#

87 31.1 27.6 41.4

59 11.8 10.8 16.2



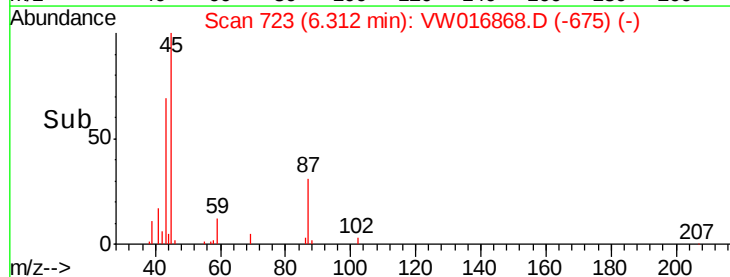
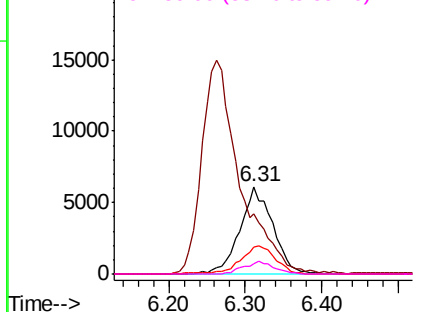
Abundance

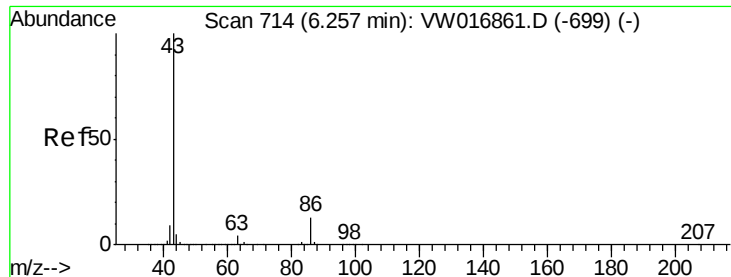
Ion 45.00 (44.70 to 45.70): VW

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: 11.343 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

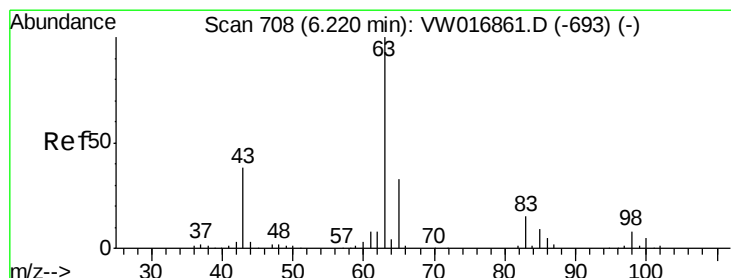
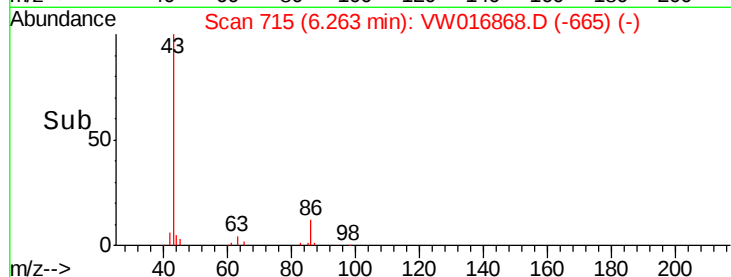
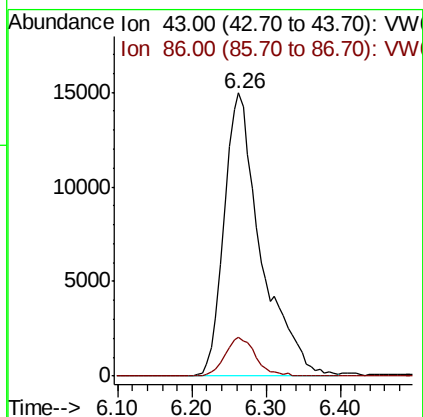
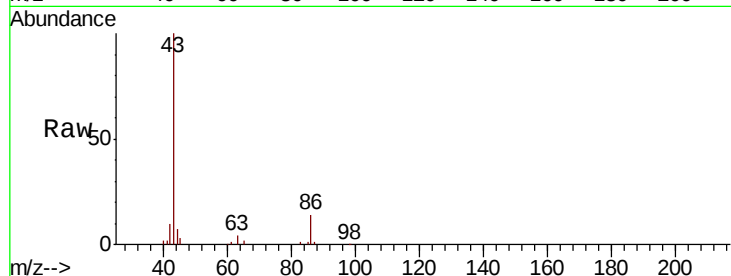
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 51975

Ion Ratio Lower Upper

43 100

86 13.8 10.2 15.4



#24

1,1-Dichloroethane

Concen: 2.486 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

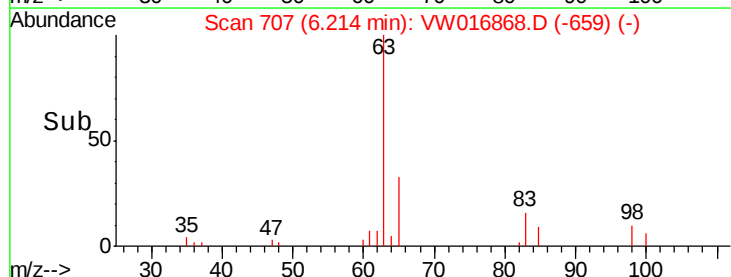
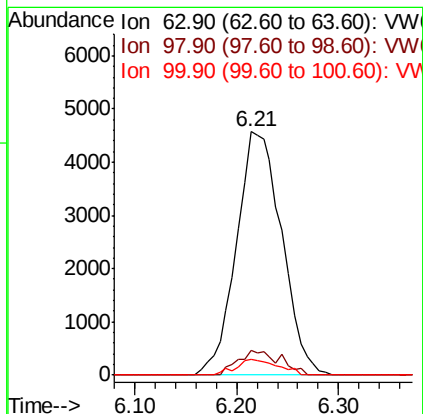
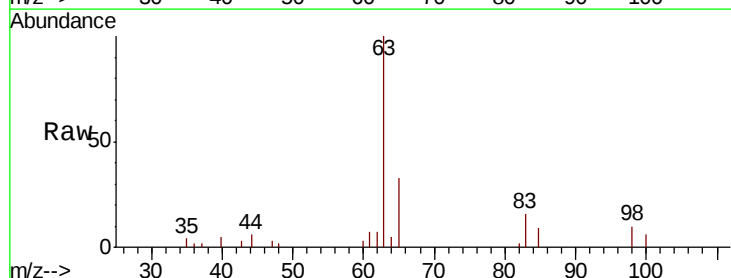
Tgt Ion: 63 Resp: 14095

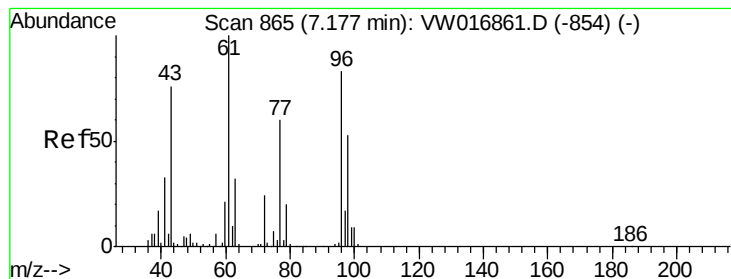
Ion Ratio Lower Upper

63 100

98 10.0 4.2 12.6

100 6.4 2.6 7.8





#25

2-Butanone

Concen: 14.469 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

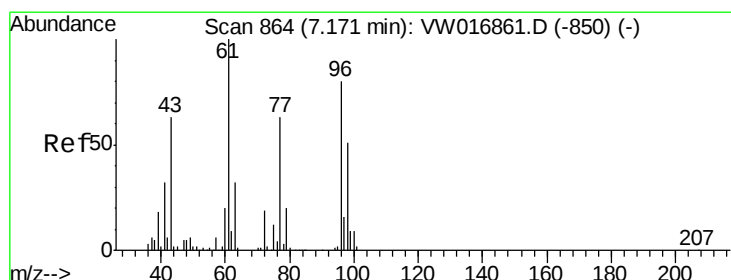
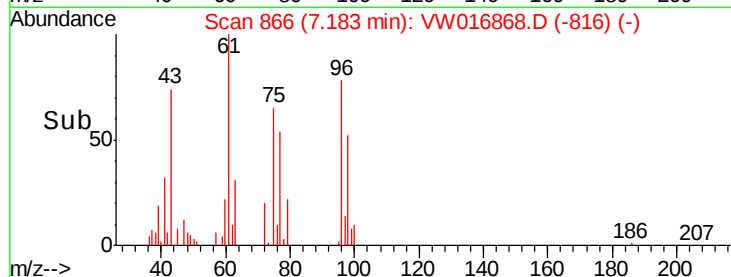
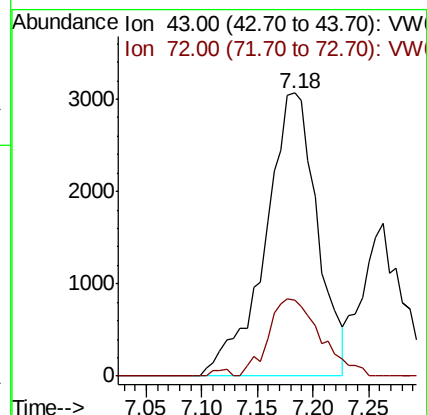
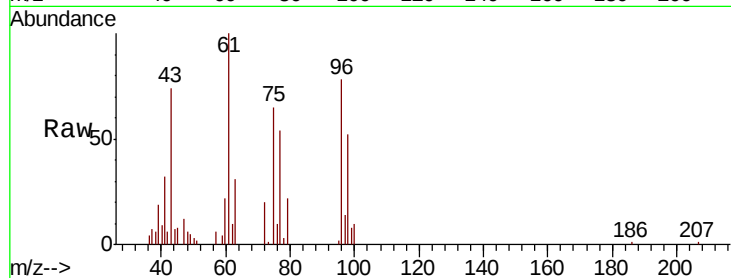
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 9982

Ion Ratio Lower Upper

43 100

72 26.9 25.4 38.2



#26

2,2-Dichloropropane

Concen: 3.122 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016868.D

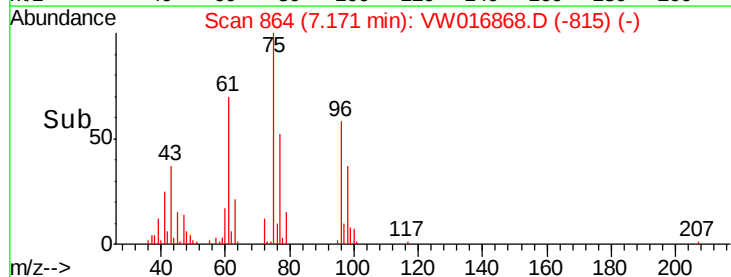
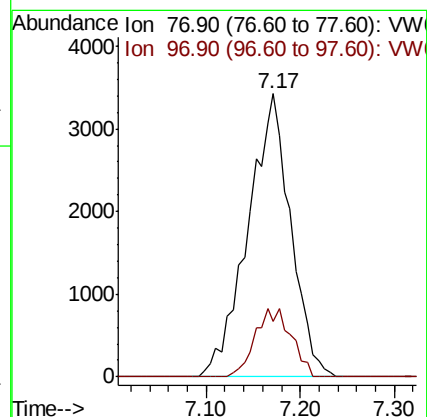
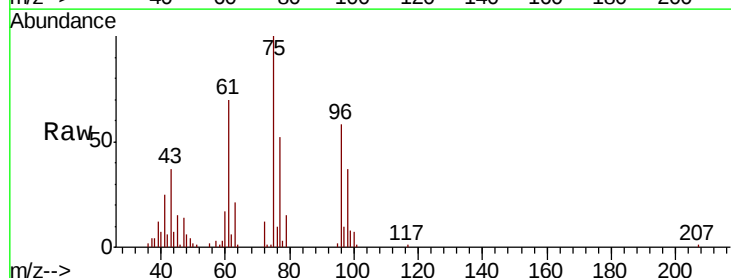
Acq: 09 Oct 2020 18:54

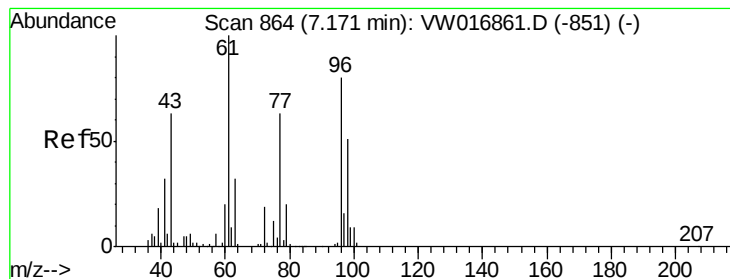
Tgt Ion: 77 Resp: 10832

Ion Ratio Lower Upper

77 100

97 20.3 12.4 37.4





#27

cis-1,2-Dichloroethene

Concen: 2.640 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

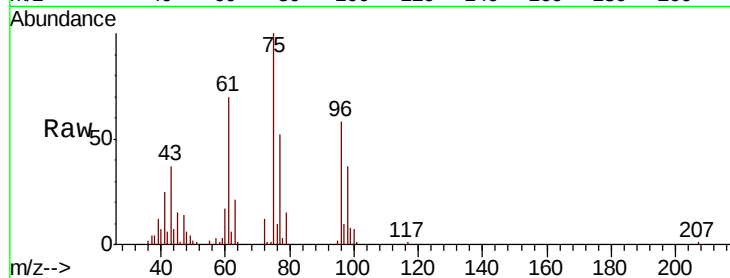
Tot Ion: 96 Resp: 10434

Ion Ratio Lower Upper

96 100

61 130.8 0.0 249.6

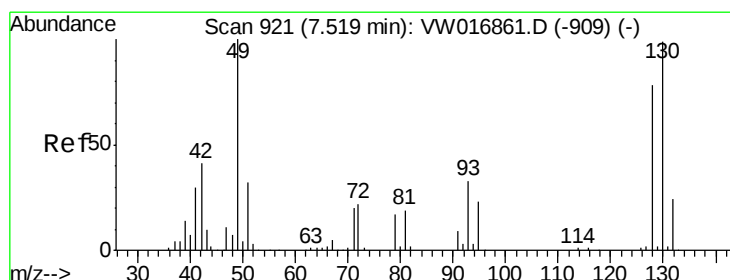
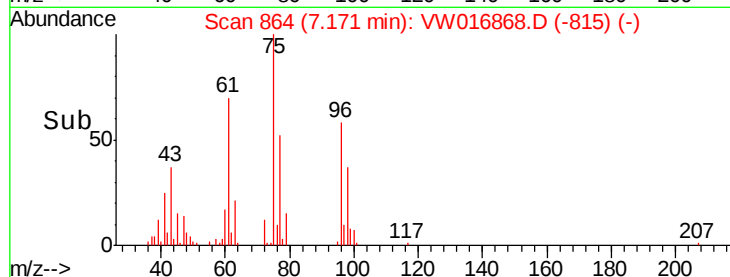
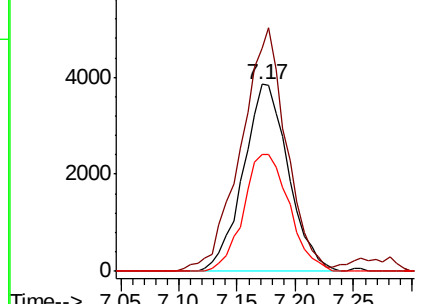
98 63.0 0.0 129.4



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



#28

Bromochloromethane

Concen: 2.769 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

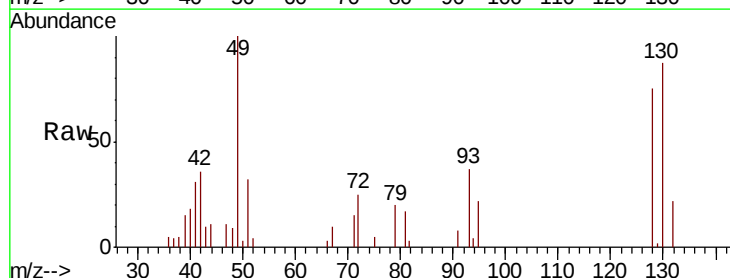
Tgt Ion: 49 Resp: 6284

Ion Ratio Lower Upper

49 100

129 0.7 0.0 4.8

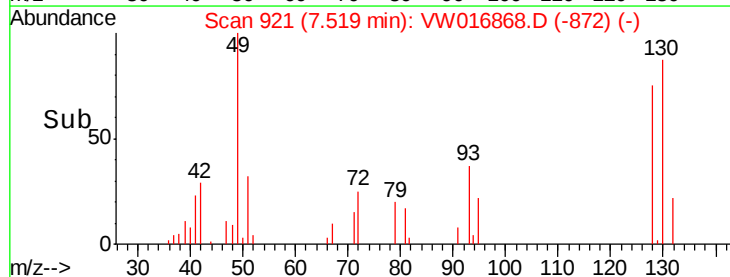
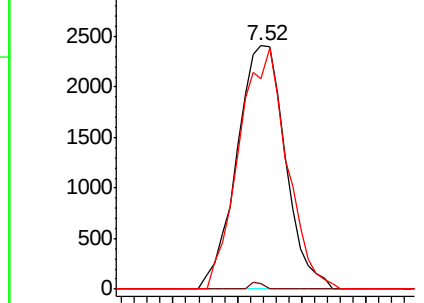
130 97.9 81.3 121.9

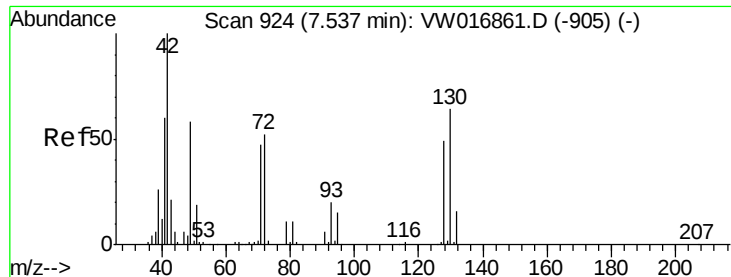


Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

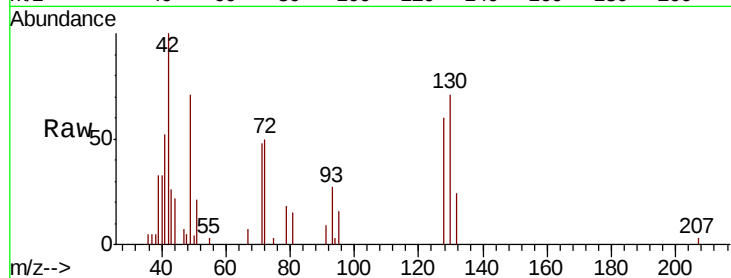




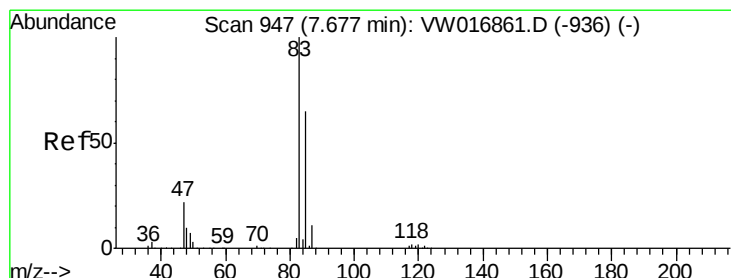
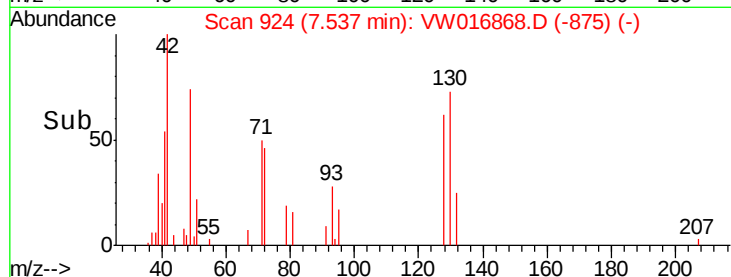
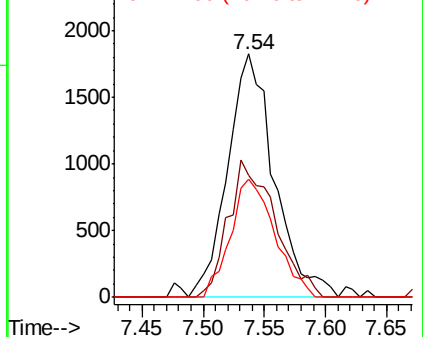
#29
Tetrahydrofuran
Concen: 12.520 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 42 Resp: 4838
Ion Ratio Lower Upper
42 100
72 56.8 42.0 63.0
71 46.0 39.0 58.6

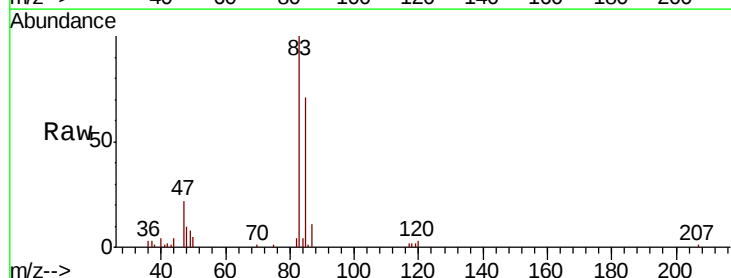


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

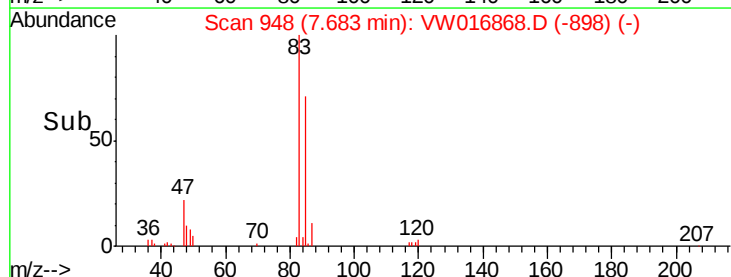
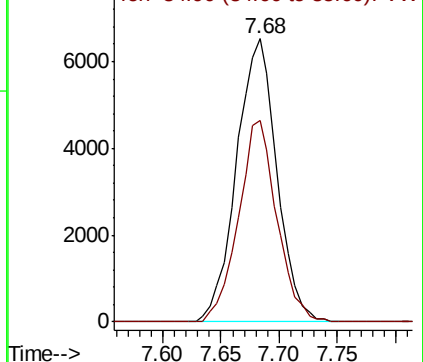


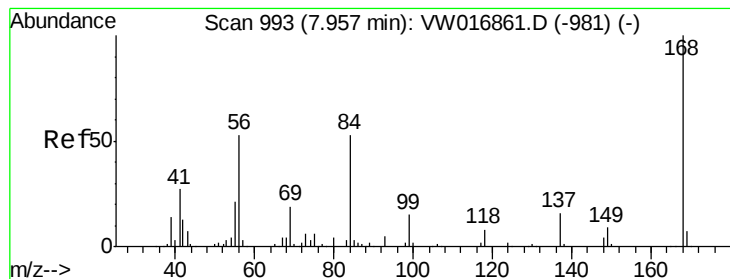
#30
Chloroform
Concen: 2.556 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 83 Resp: 15755
Ion Ratio Lower Upper
83 100
85 71.1 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: 3.713 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

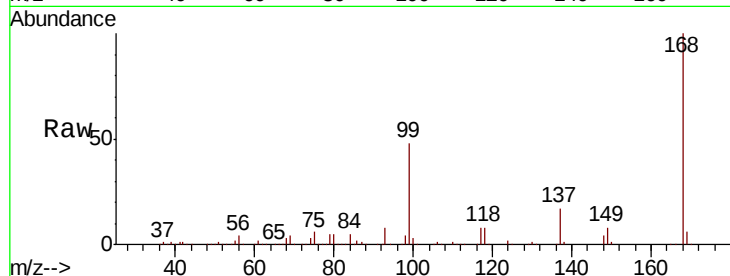
Tot Ion: 56 Resp: 17958

Ion Ratio Lower Upper

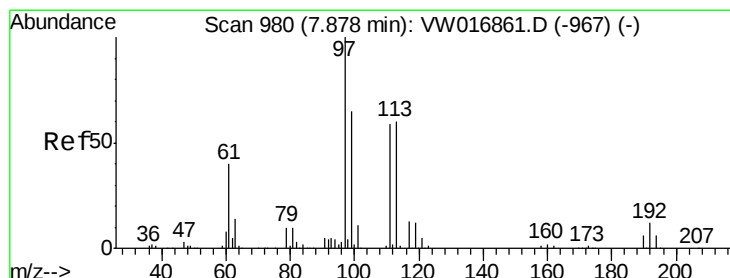
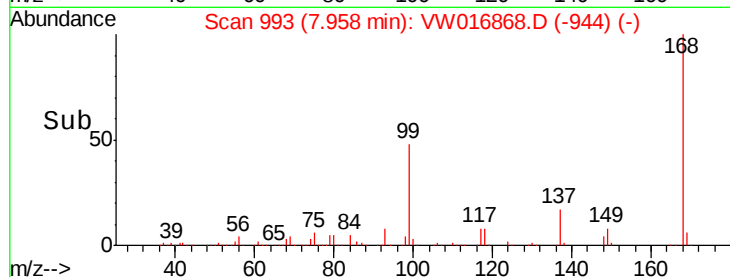
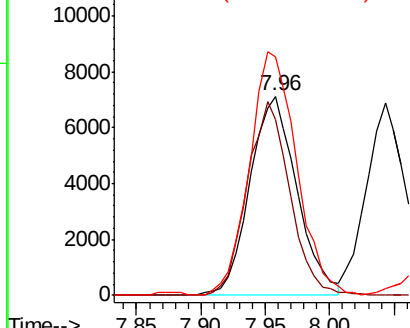
56 100

69 88.4 29.3 43.9#

84 119.8 80.5 120.7



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



#32

1,1,1-Trichloroethane

Concen: 2.582 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

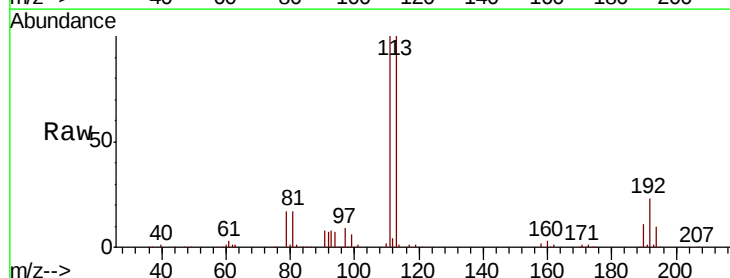
Tgt Ion: 97 Resp: 13427

Ion Ratio Lower Upper

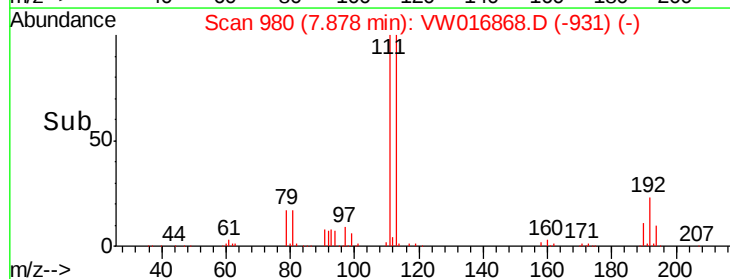
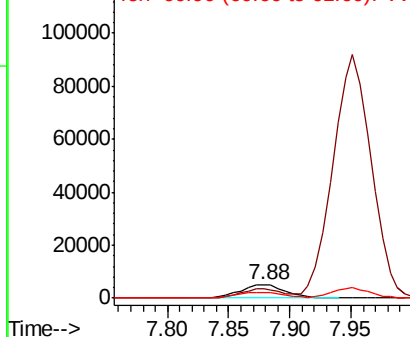
97 100

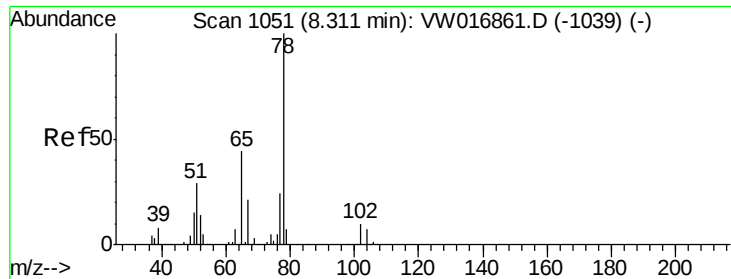
99 63.3 52.4 78.6

61 42.0 31.9 47.9



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

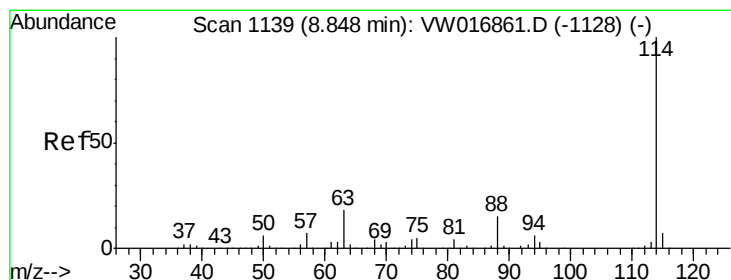
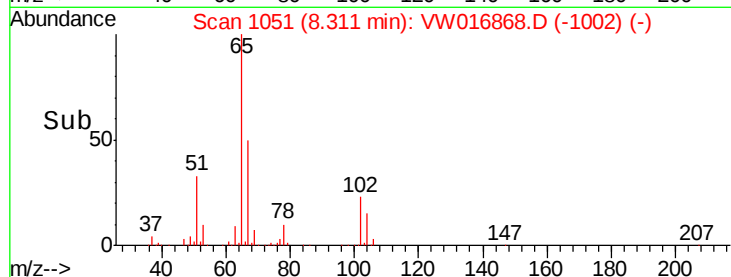
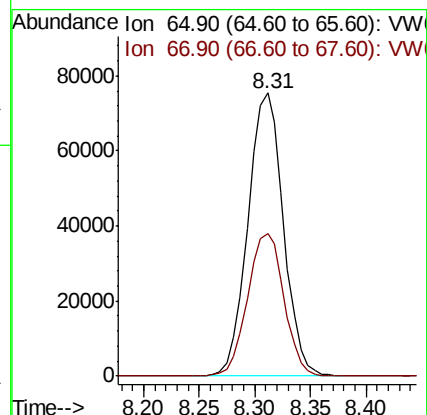
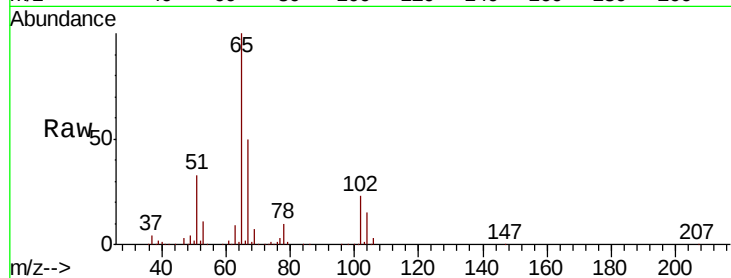




#33
 1,2-Dichloroethane-d4
 Concen: 52.322 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

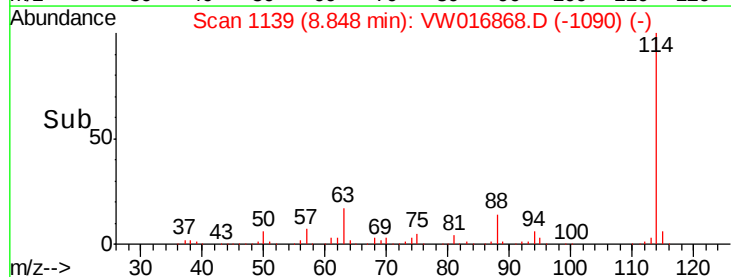
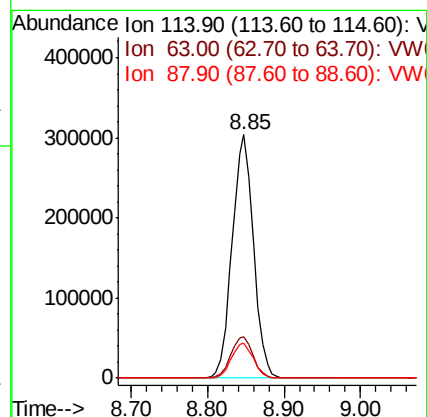
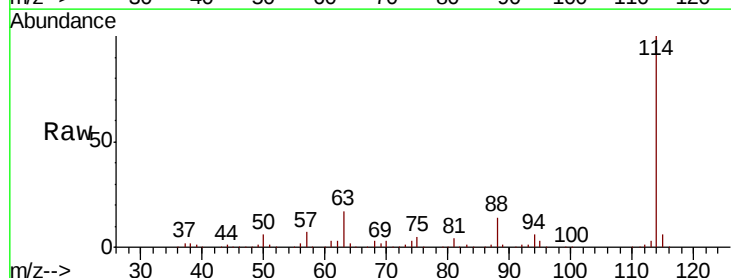
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

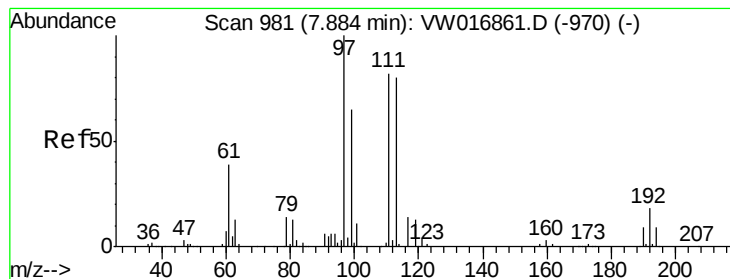
Tot Ion: 65 Resp: 167171
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 114 Resp: 584116
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.6
 88 14.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.952 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

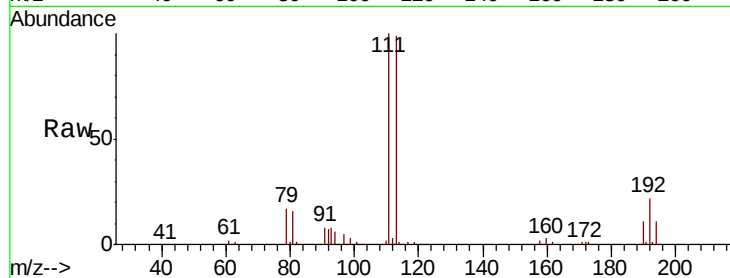
Tot Ion:113 Resp: 178835

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.2

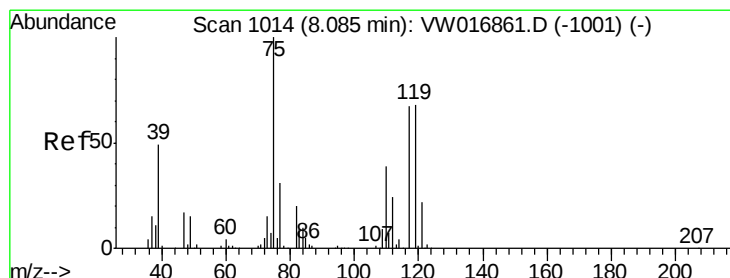
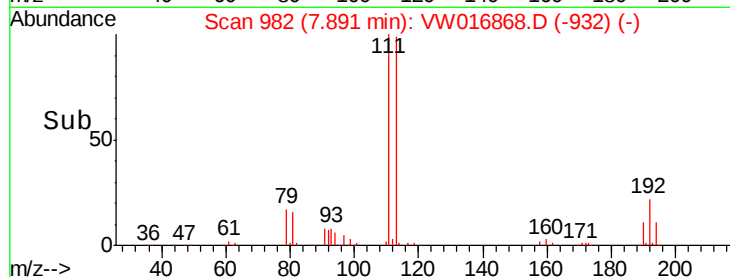
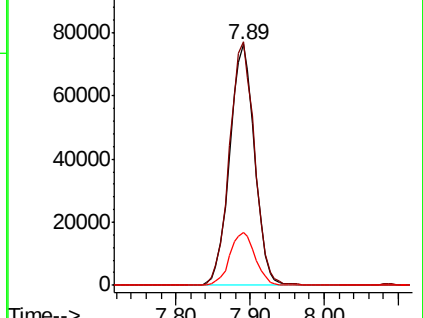
192 22.3 17.8 26.8



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: 2.664 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

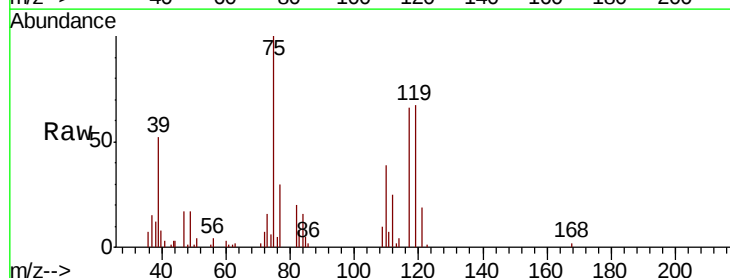
Tgt Ion: 75 Resp: 13452

Ion Ratio Lower Upper

75 100

110 36.3 19.3 57.9

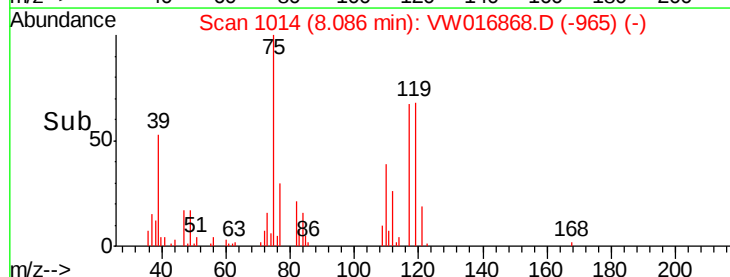
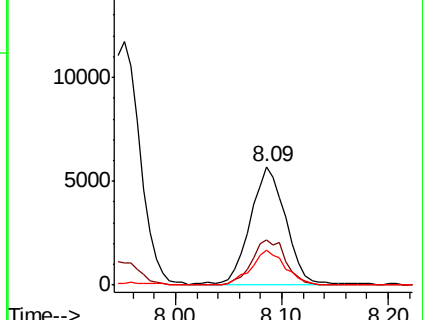
77 28.0 25.0 37.6

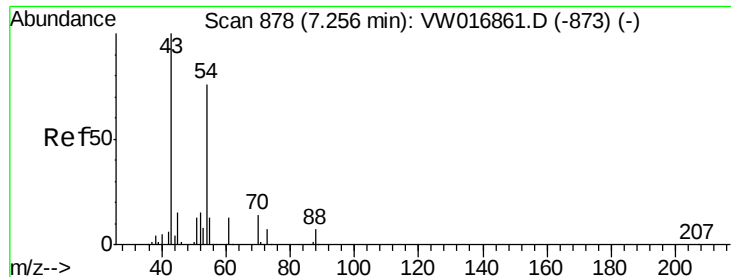


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

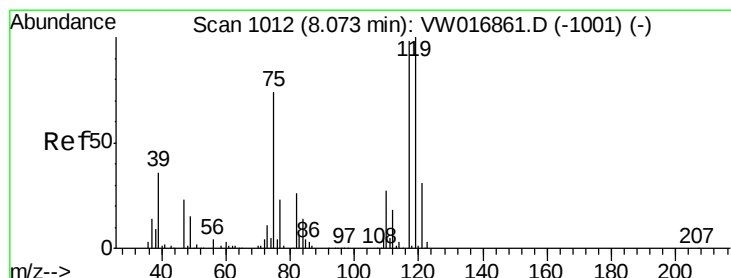
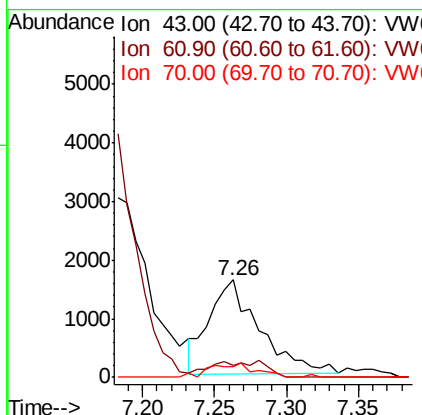
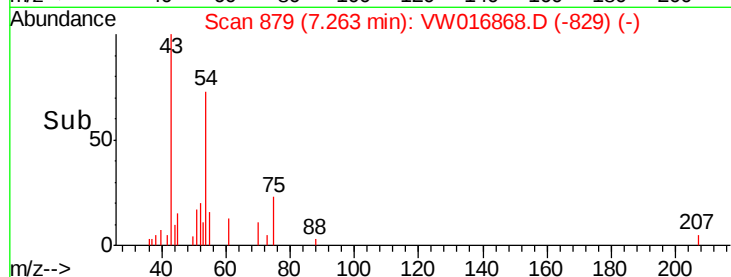
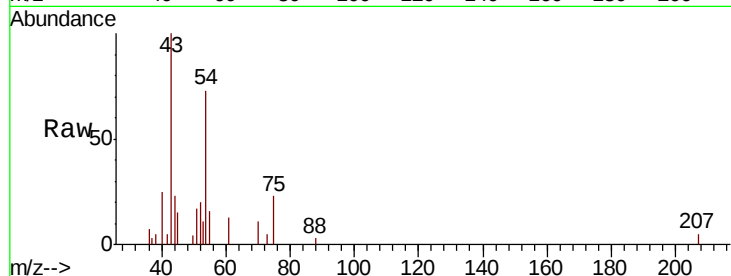




#37
Ethyl Acetate
Concen: 2.400 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

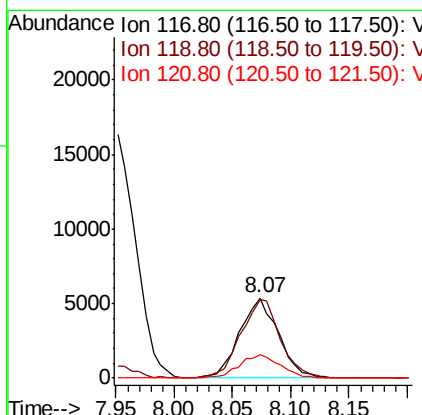
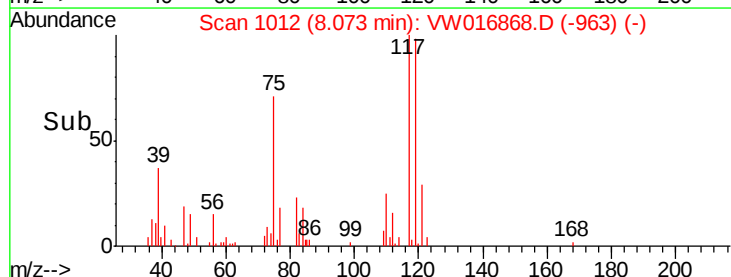
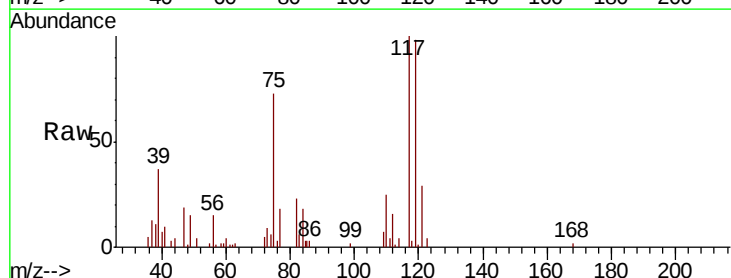
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

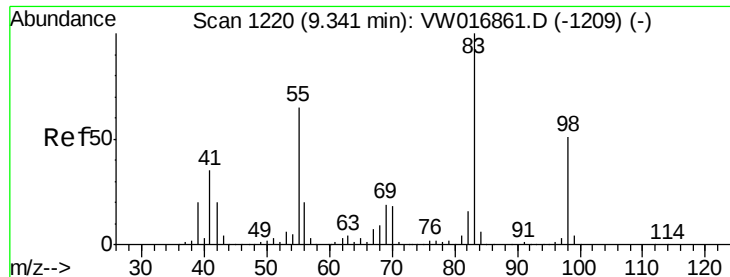
Tot Ion: 43 Resp: 3960
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 12.8 9.9 14.9



#38
Carbon Tetrachloride
Concen: 2.391 ug/l
RT: 8.07 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 117 Resp: 12554
Ion Ratio Lower Upper
117 100
119 98.0 81.6 122.4
121 29.1 25.7 38.5

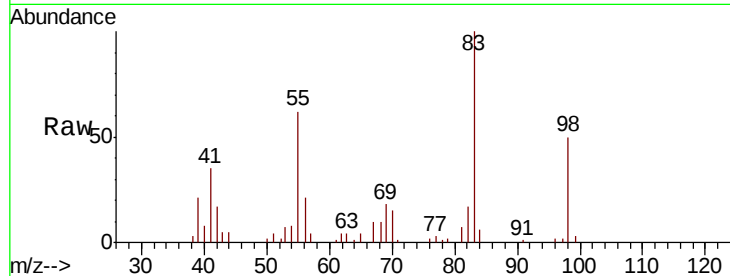




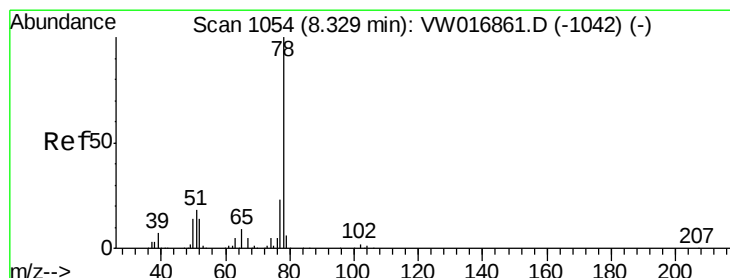
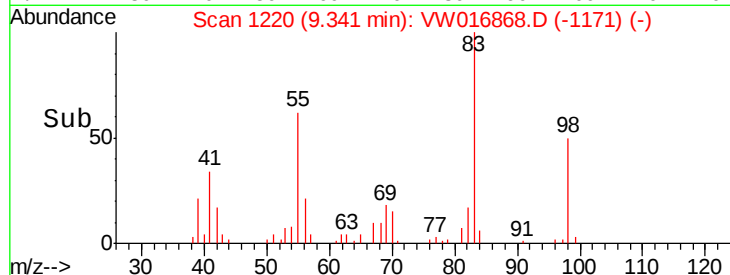
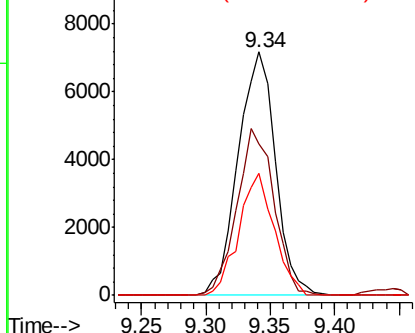
#39
Methvlcvclohexane
Concen: 2.498 ug/l
RT: 9.34 min Scan# 1220
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 83 Resp: 14384
Ion Ratio Lower Upper
83 100
55 62.4 51.7 77.5
98 50.0 41.0 61.4

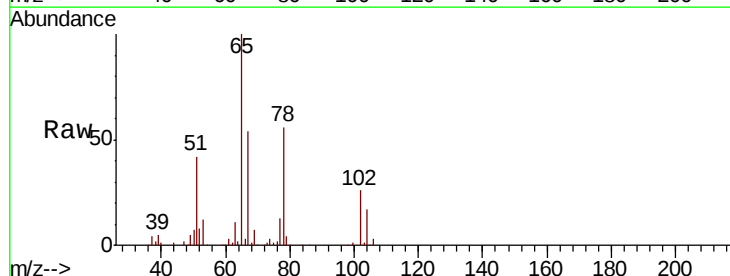


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

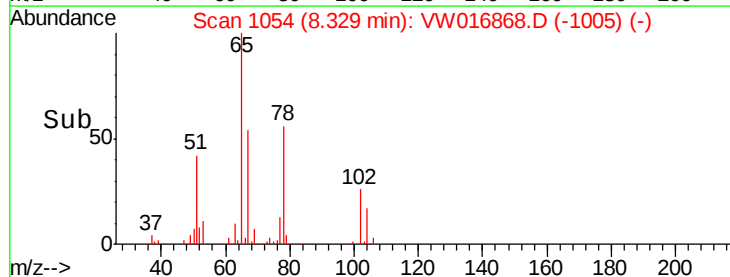
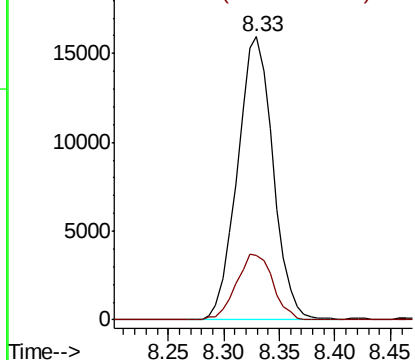


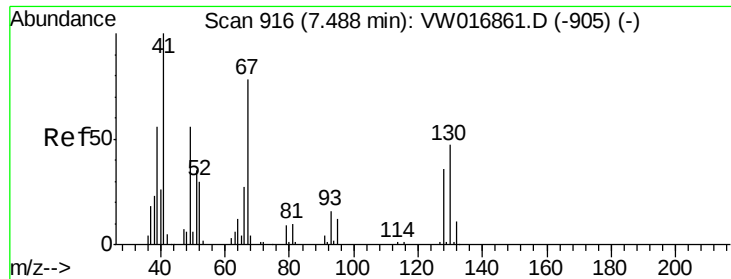
#40
Benzene
Concen: 2.520 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 78 Resp: 35463
Ion Ratio Lower Upper
78 100
77 22.8 18.5 27.7



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

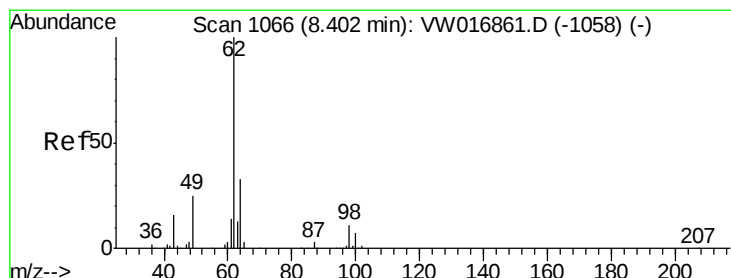
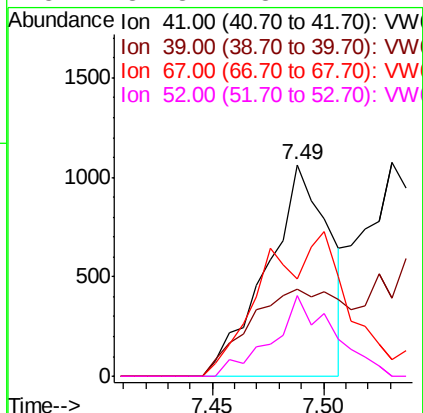
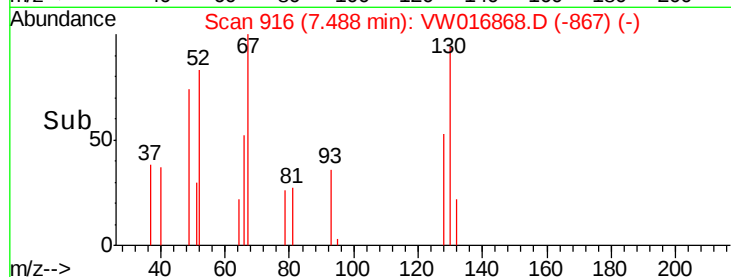
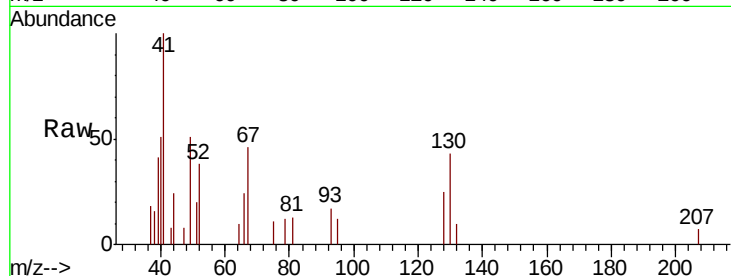




#41
Methacrylonitrile
Concen: 2.112 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

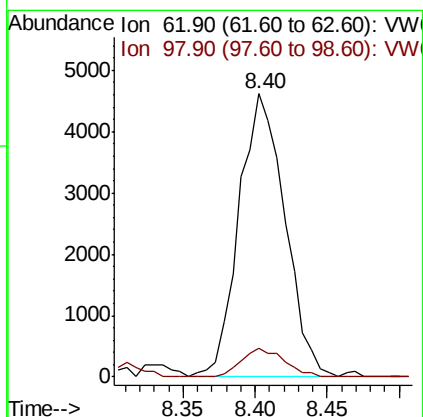
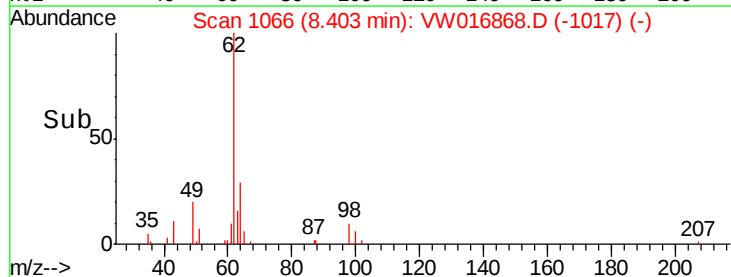
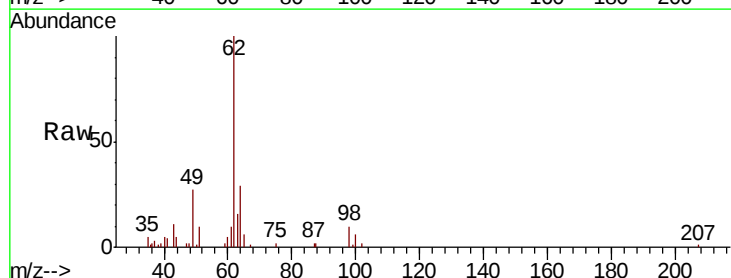
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

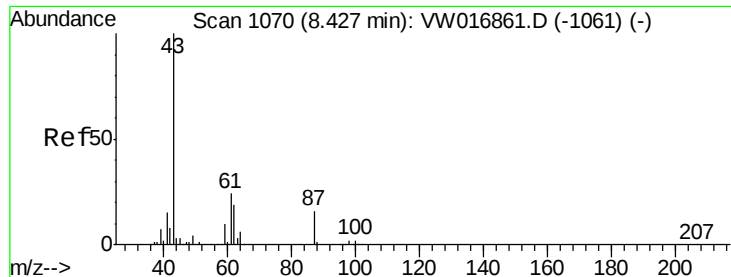
Tot Ion: 41 Resp: 2065
Ion Ratio Lower Upper
41 100
39 62.6 47.0 70.6
67 95.1 68.6 102.8
52 37.3 28.1 42.1



#42
1,2-Dichloroethane
Concen: 2.654 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 62 Resp: 10215
Ion Ratio Lower Upper
62 100
98 9.5 0.0 21.0





#43

Isopropyl Acetate

Concen: 2.241 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

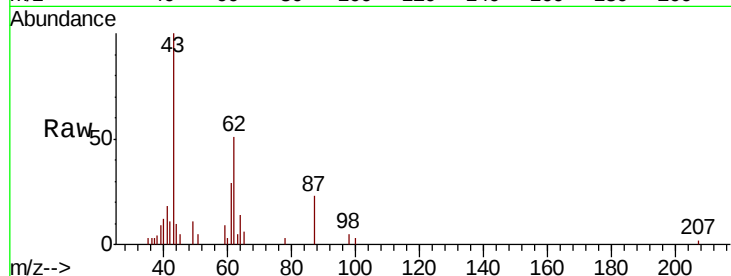
Tot Ion: 43 Resp: 7082

Ion Ratio Lower Upper

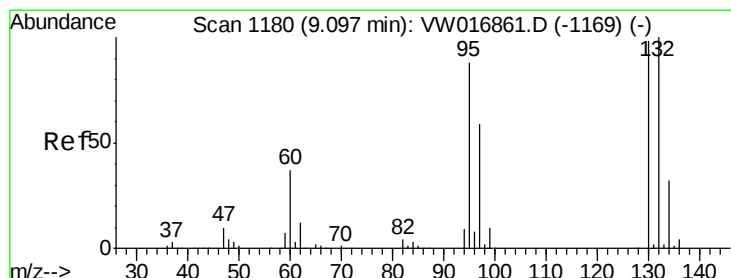
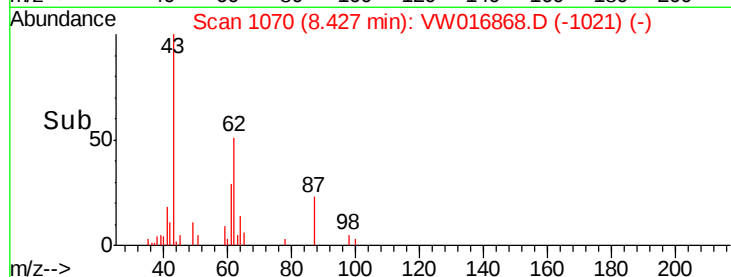
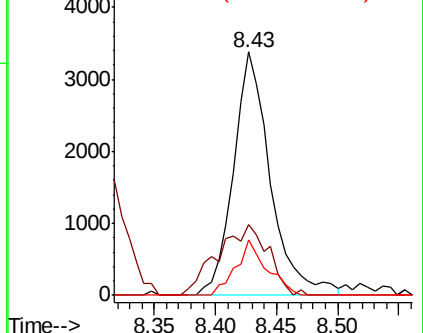
43 100

61 40.0 27.5 41.3

87 19.0 13.6 20.4



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



#44

Trichloroethene

Concen: 2.537 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016868.D

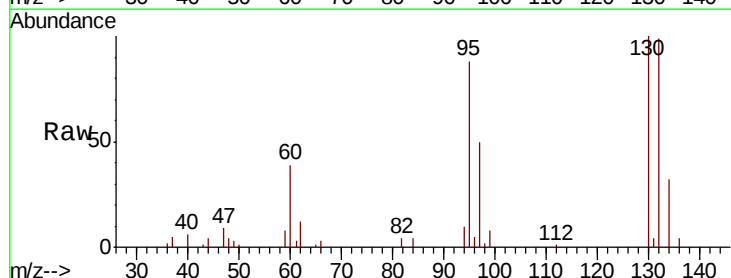
Acq: 09 Oct 2020 18:54

Tgt Ion: 130 Resp: 11048

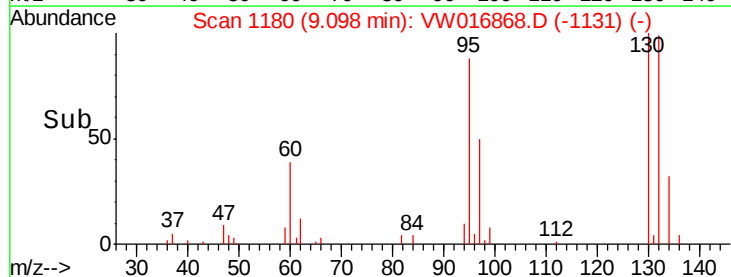
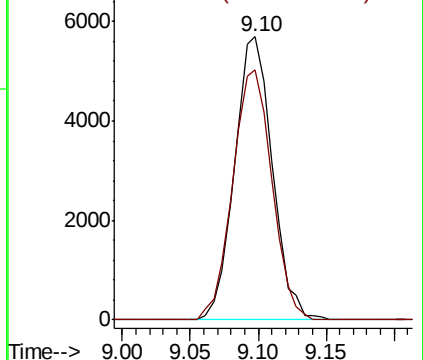
Ion Ratio Lower Upper

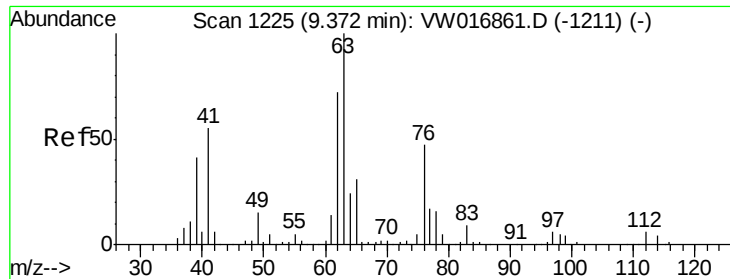
130 100

95 88.3 0.0 180.2



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

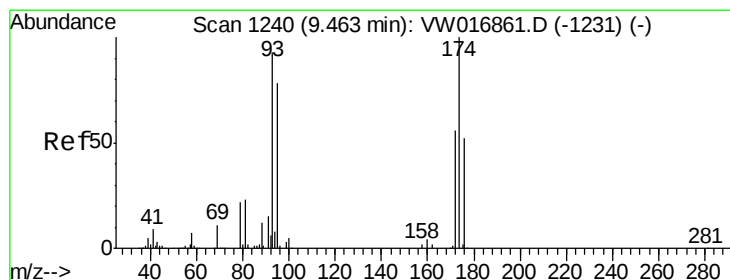
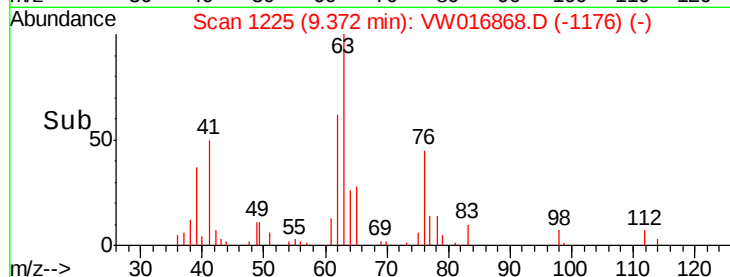
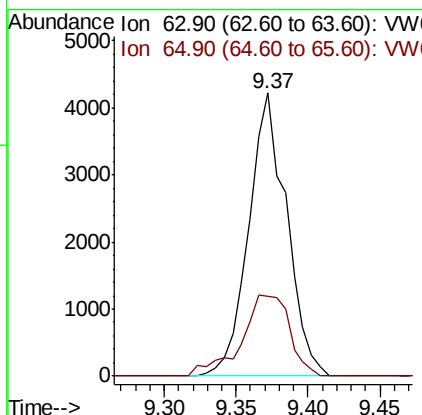
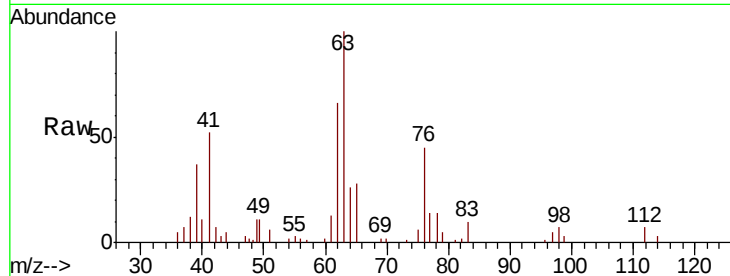




#45
 1,2-Dichloropropane
 Concen: 2.390 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

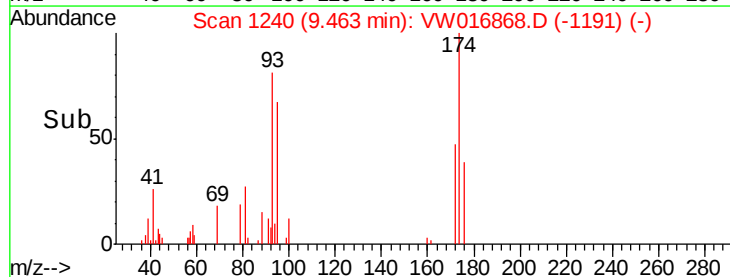
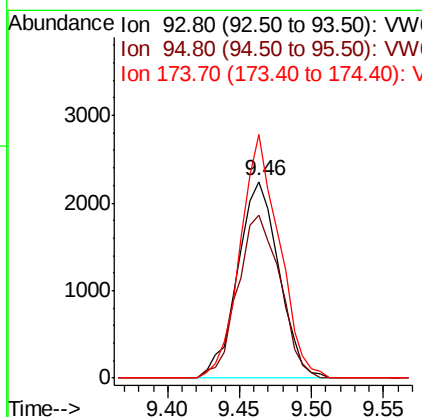
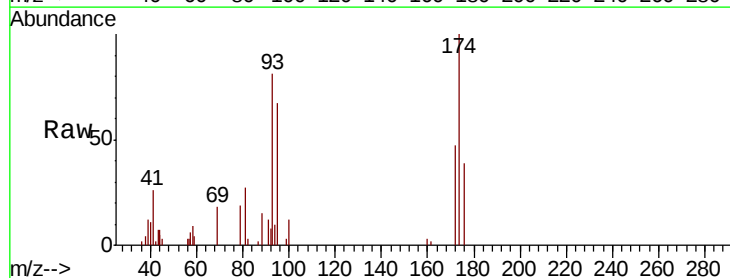
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

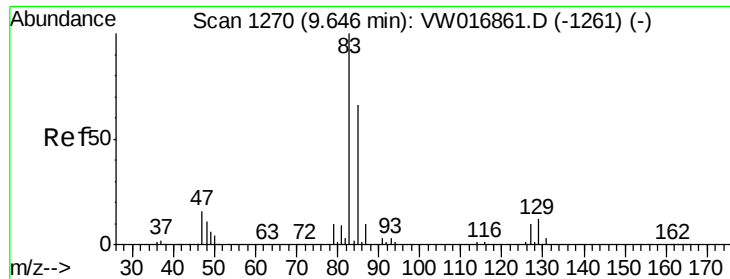
Tot Ion: 63 Resp: 7668
 Ion Ratio Lower Upper
 63 100
 65 28.3 25.1 37.7



#46
 Dibromomethane
 Concen: 2.430 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 93 Resp: 4459
 Ion Ratio Lower Upper
 93 100
 95 85.8 66.5 99.7
 174 117.0 91.0 136.6





#47

Bromodichloromethane

Concen: 2.466 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

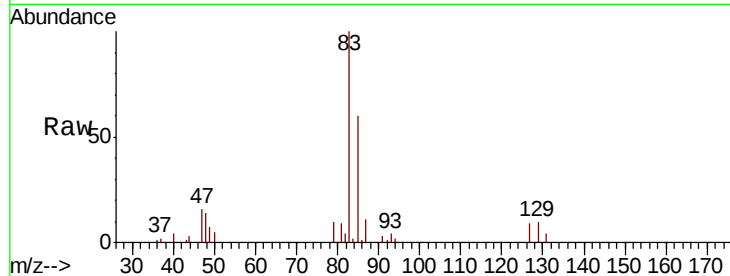
Tot Ion: 83 Resp: 11252

Ion Ratio Lower Upper

83 100

85 60.0 52.7 79.1

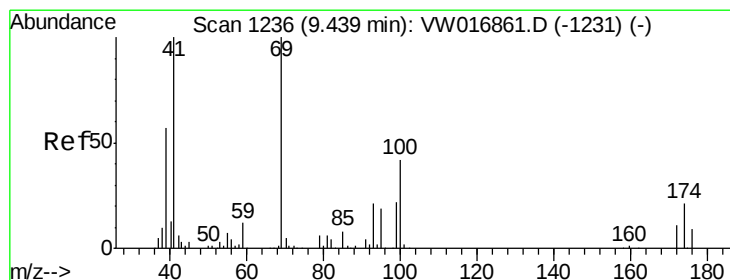
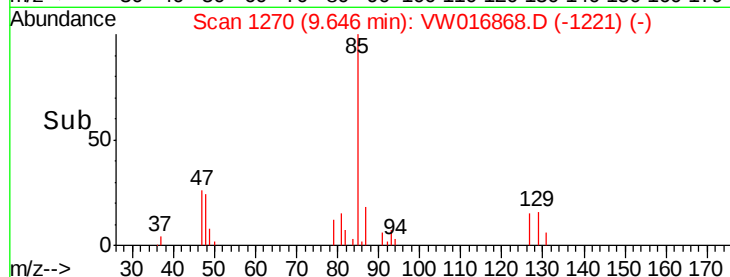
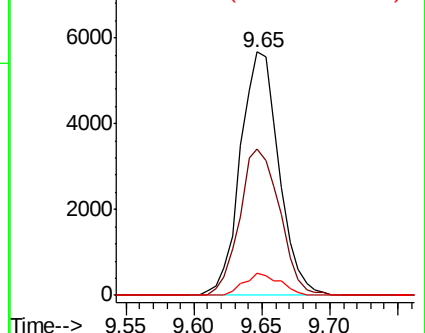
127 8.9 7.8 11.6



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): VW



#48

Methyl methacrylate

Concen: 2.368 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

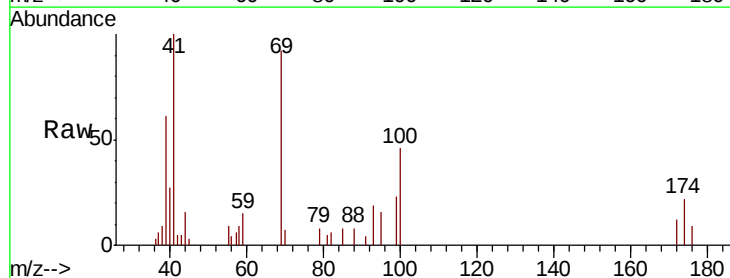
Tgt Ion: 41 Resp: 3449

Ion Ratio Lower Upper

41 100

69 100.9 83.5 125.3

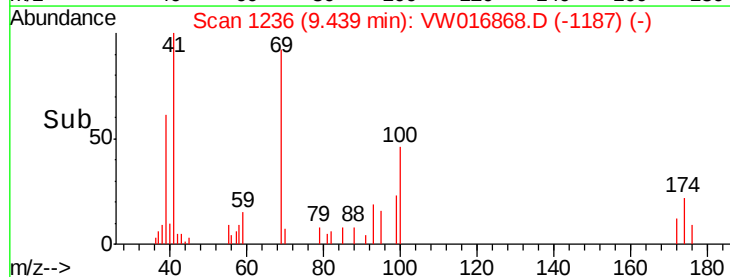
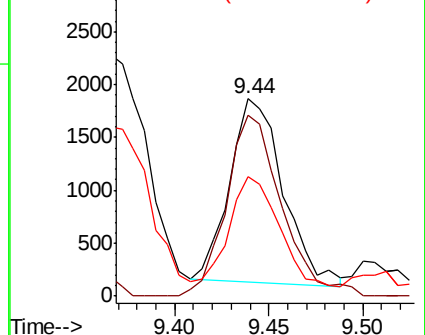
39 57.3 50.9 76.3

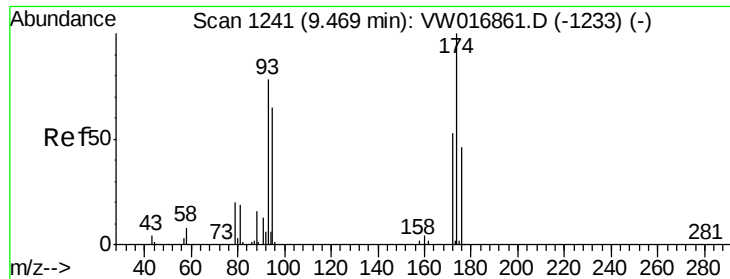


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

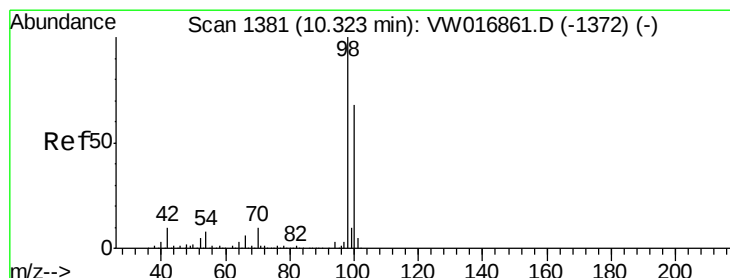
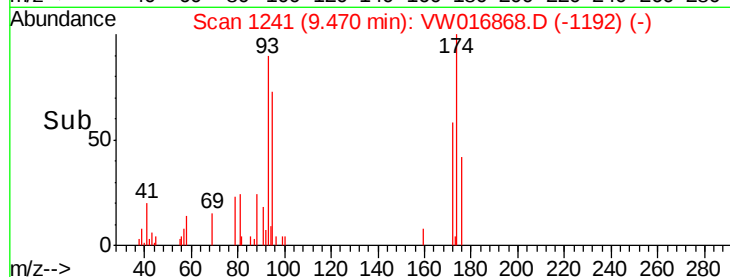
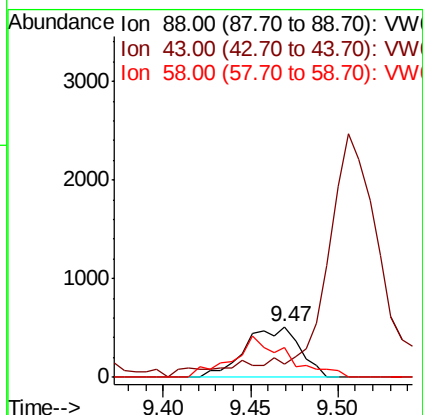
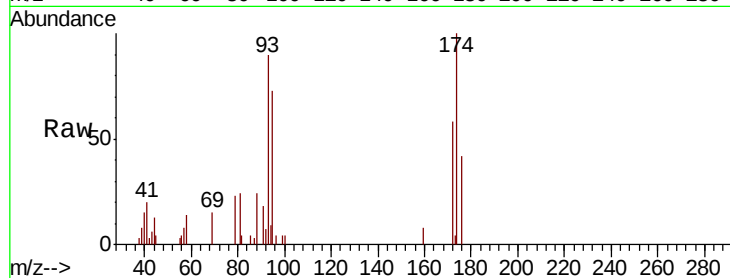




#49
1,4-Dioxane
Concen: 52.772 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

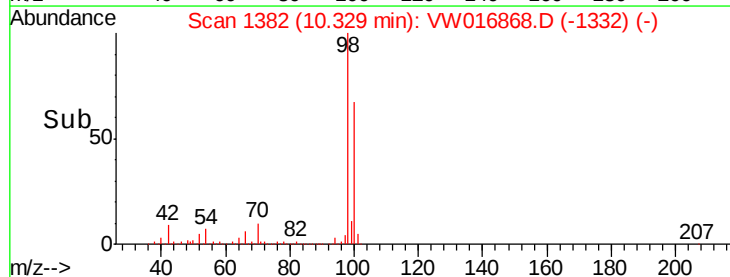
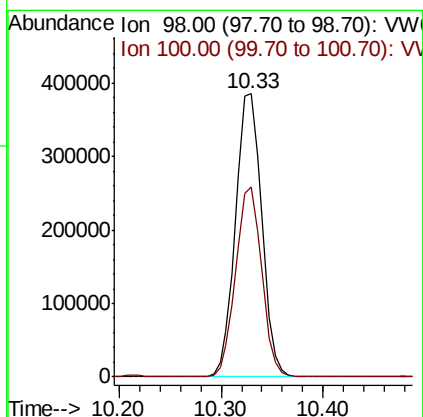
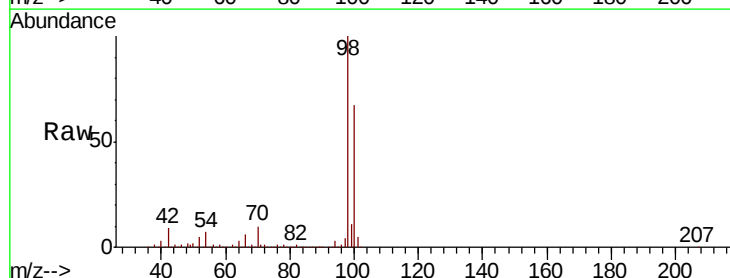
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

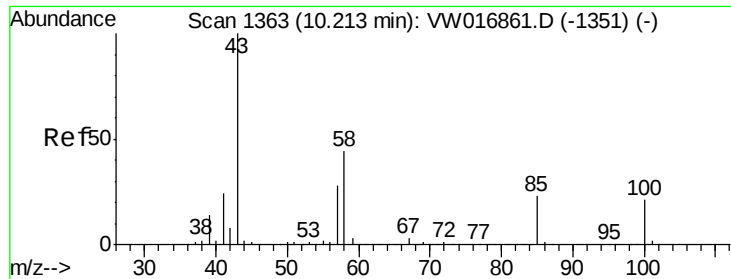
Tot Ion: 88 Resp: 1114
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 80.5 54.0 81.0



#50
Toluene-d8
Concen: 51.042 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 98 Resp: 685191
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 12.397 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

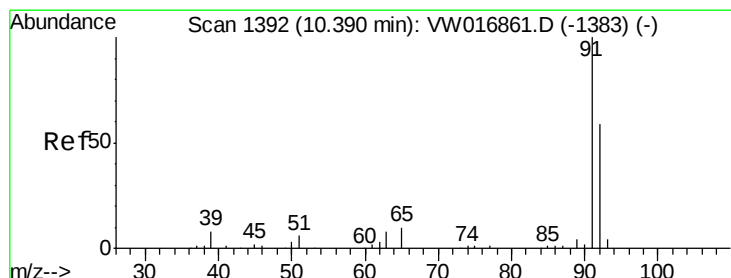
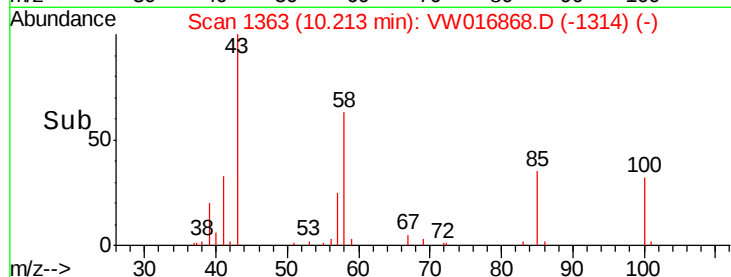
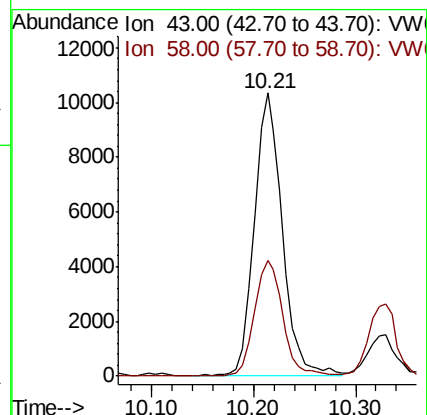
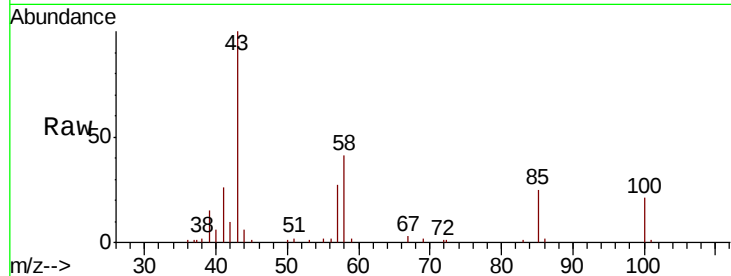
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 19821

Ion Ratio Lower Upper

43 100

58 41.5 34.7 52.1



#52

Toluene

Concen: 2.592 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016868.D

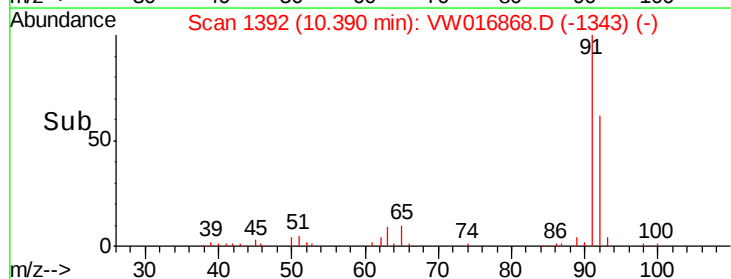
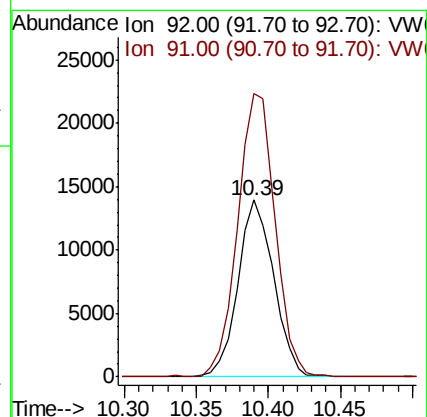
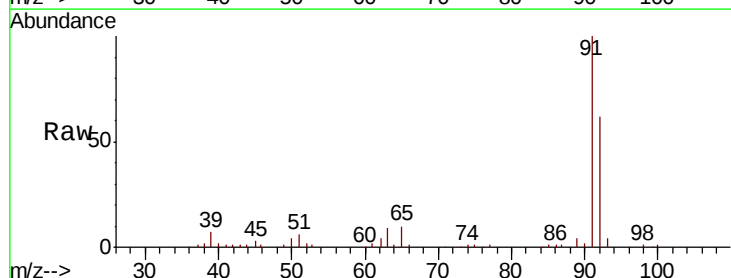
Acq: 09 Oct 2020 18:54

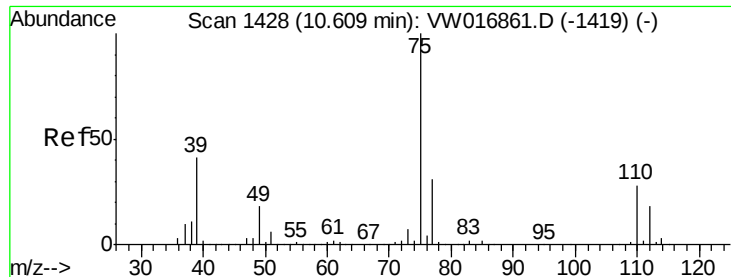
Tgt Ion: 92 Resp: 24105

Ion Ratio Lower Upper

92 100

91 167.6 134.7 202.1

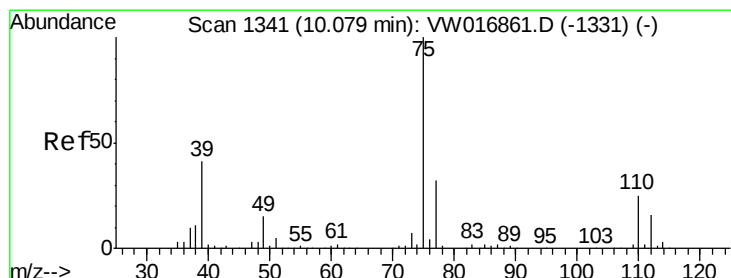
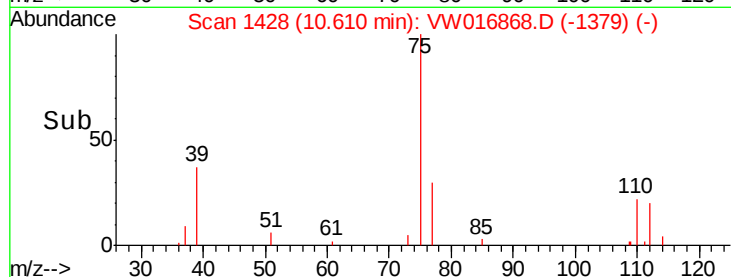
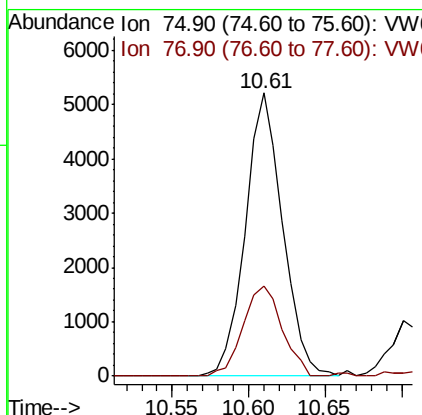
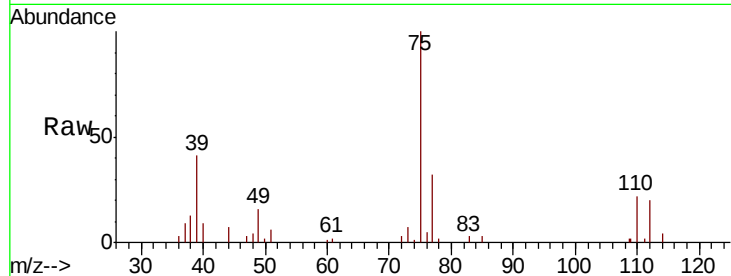




#53
t-1,3-Dichloropropene
Concen: 2.120 ug/l
RT: 10.61 min Scan# 1428
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

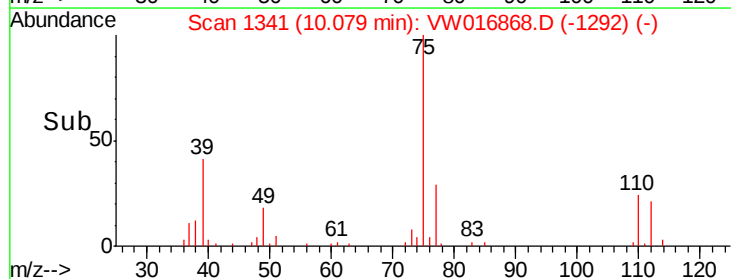
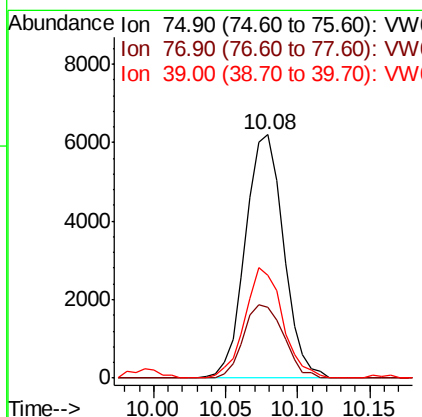
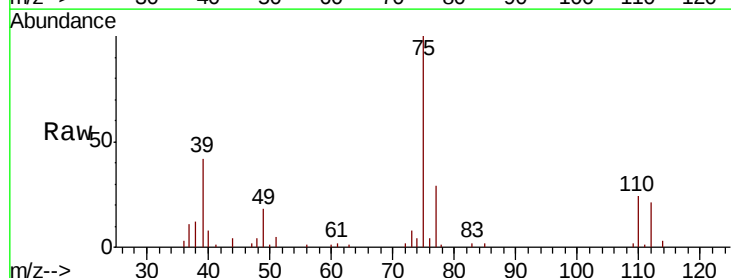
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

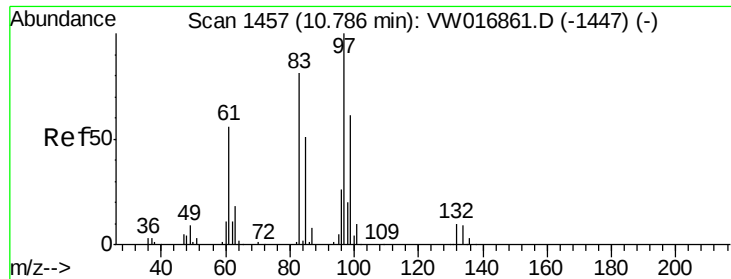
Tot Ion: 75 Resp: 8808
Ion Ratio Lower Upper
75 100
77 31.9 24.8 37.2



#54
cis-1,3-Dichloropropene
Concen: 2.249 ug/l
RT: 10.08 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 75 Resp: 11409
Ion Ratio Lower Upper
75 100
77 29.0 25.8 38.6
39 42.2 32.9 49.3





#55

1,1,2-Trichloroethane

Concen: 2.501 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 97 Resp: 6533

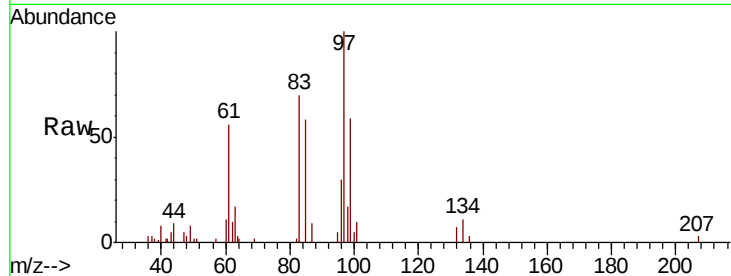
Ion Ratio Lower Upper

97 100

83 69.9 64.6 97.0

85 57.9 40.6 61.0

99 58.6 49.0 73.6



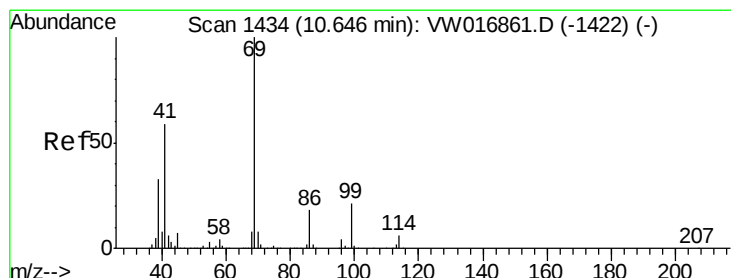
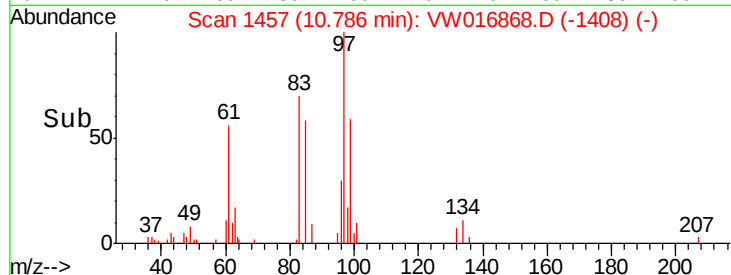
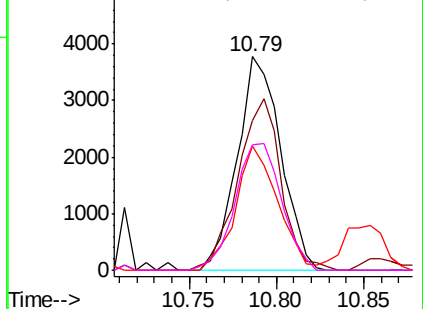
Abundance

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: 2.303 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

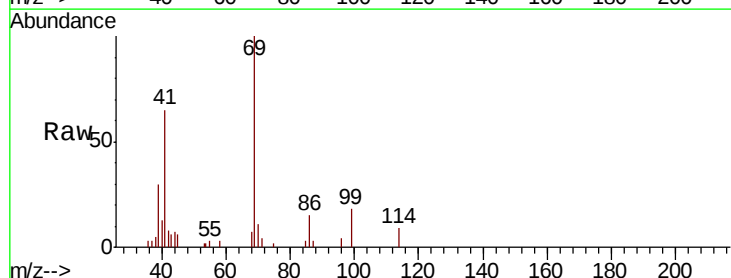
Tgt Ion: 69 Resp: 6545

Ion Ratio Lower Upper

69 100

41 64.2 46.3 69.5

39 31.0 25.9 38.9

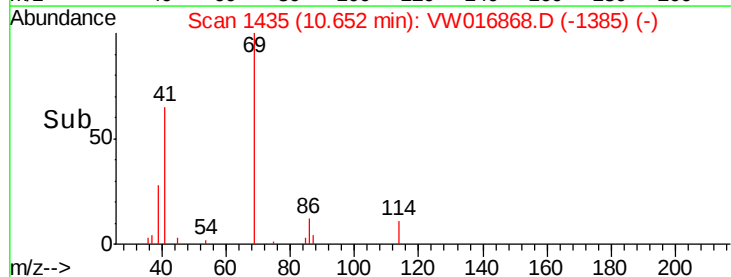
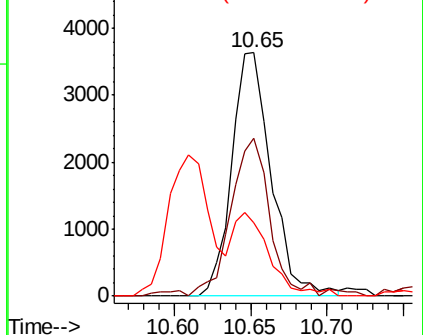


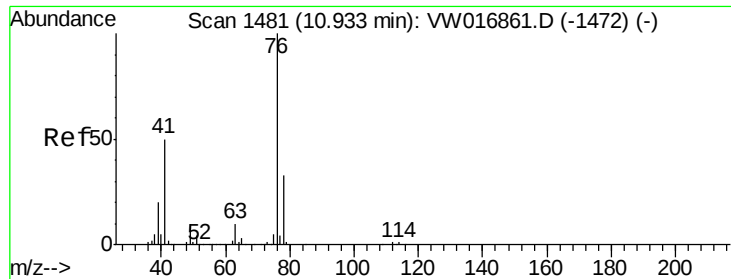
Abundance

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

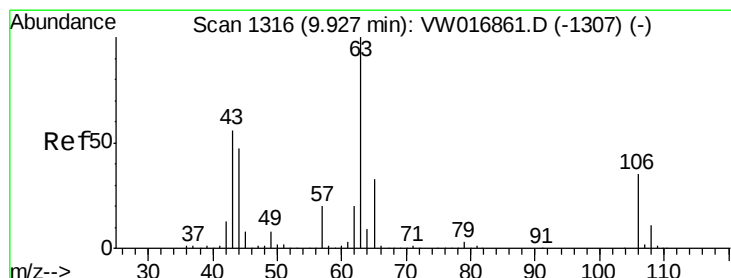
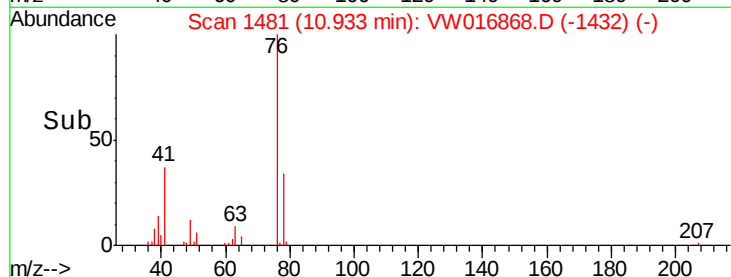
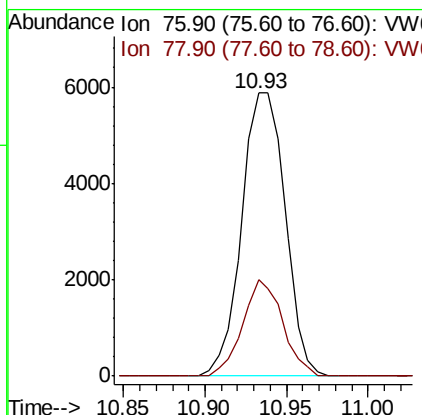
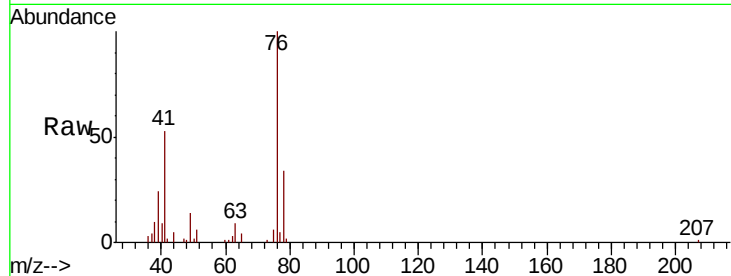




#57
 1,3-Dichloropropane
 Concen: 2.525 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

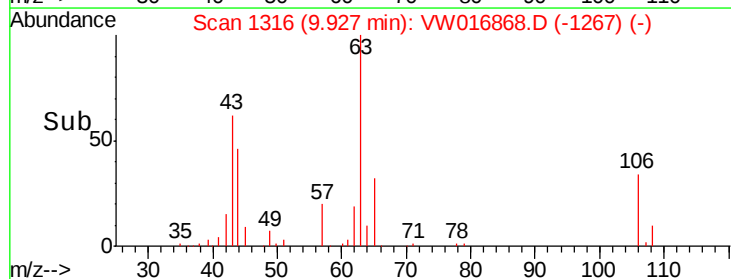
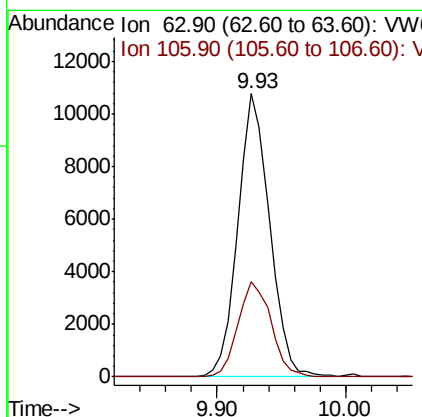
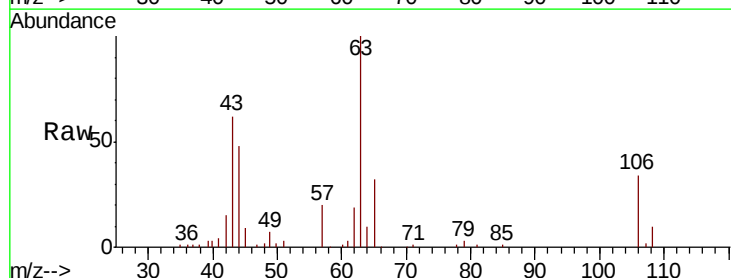
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

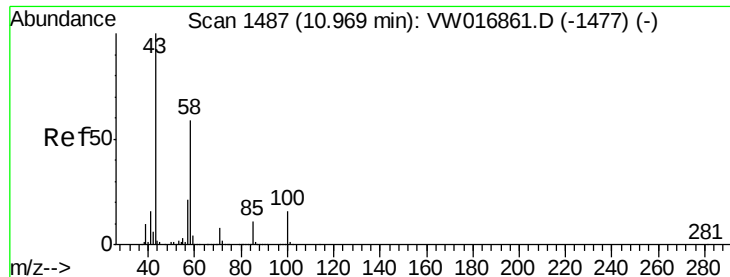
Tot Ion: 76 Resp: 10913
 Ion Ratio Lower Upper
 76 100
 78 31.4 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.690 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 63 Resp: 18409
 Ion Ratio Lower Upper
 63 100
 106 34.8 27.0 40.4





#59

2-Hexanone

Concen: 11.036 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

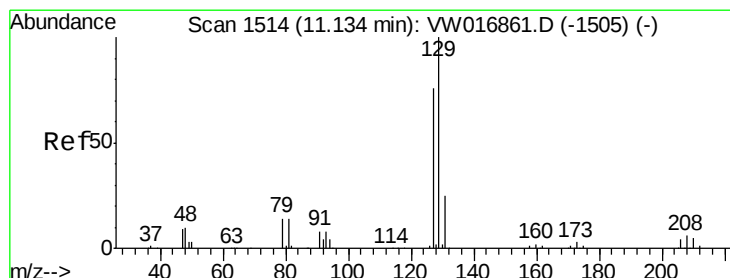
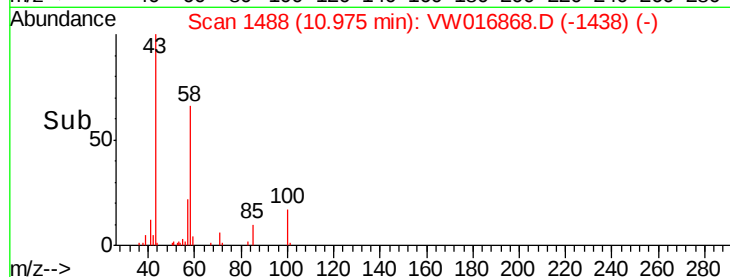
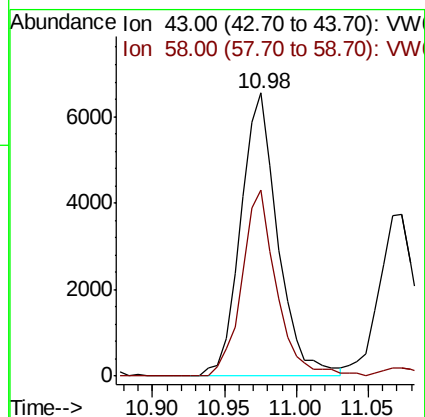
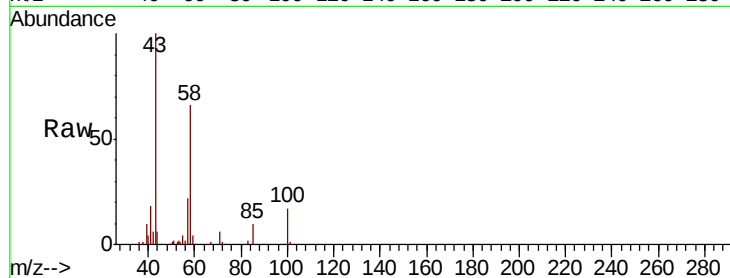
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 11675

Ion Ratio Lower Upper

43 100

58 61.5 29.5 88.5



#60

Dibromochloromethane

Concen: 2.348 ug/l

RT: 11.13 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VW016868.D

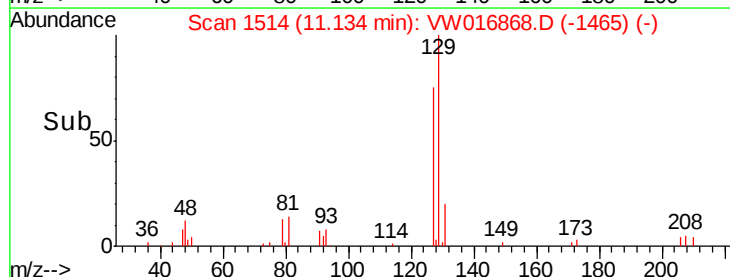
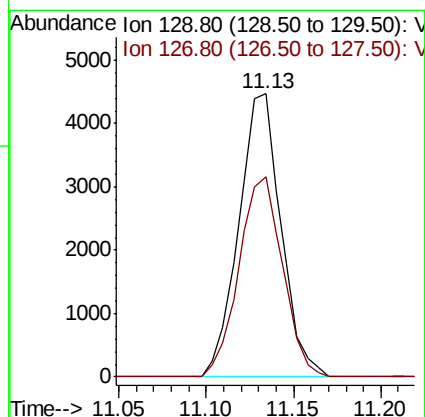
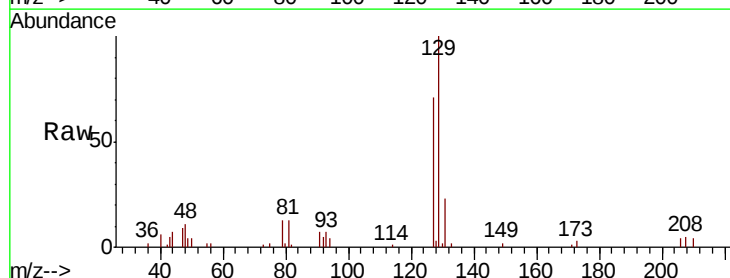
Acq: 09 Oct 2020 18:54

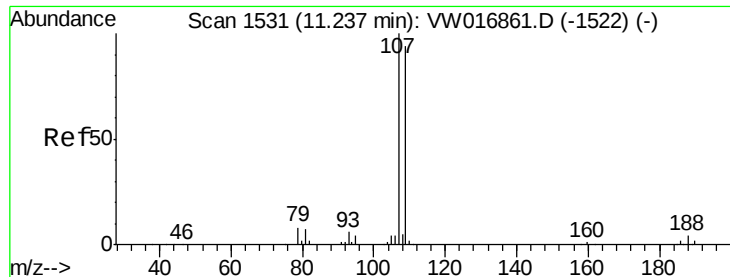
Tgt Ion: 129 Resp: 7523

Ion Ratio Lower Upper

129 100

127 73.2 38.9 116.6

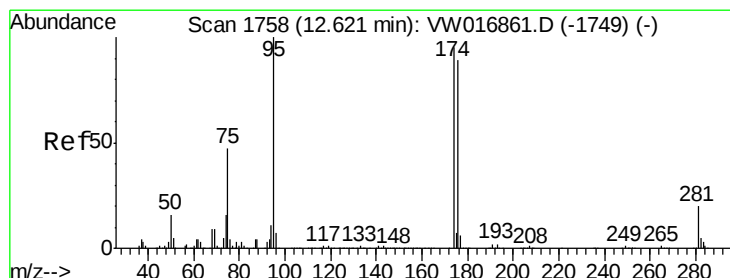
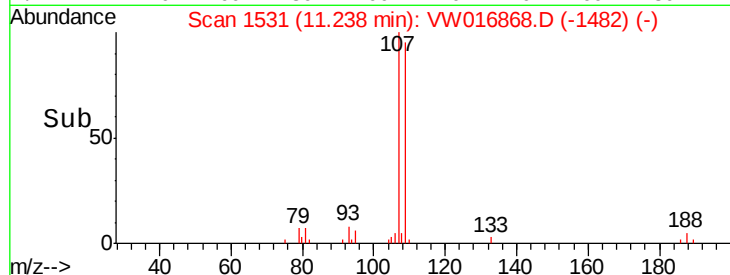
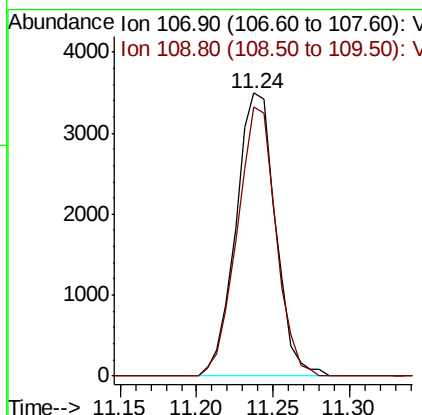
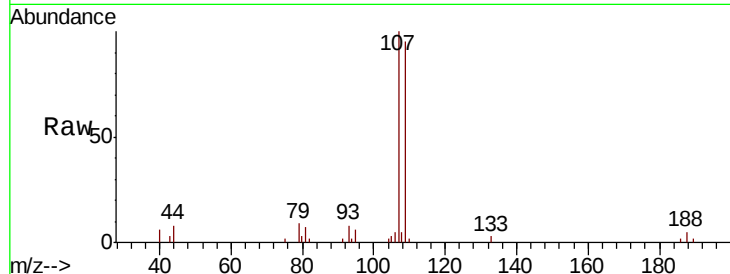




#61
 1,2-Dibromoethane
 Concen: 2.428 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

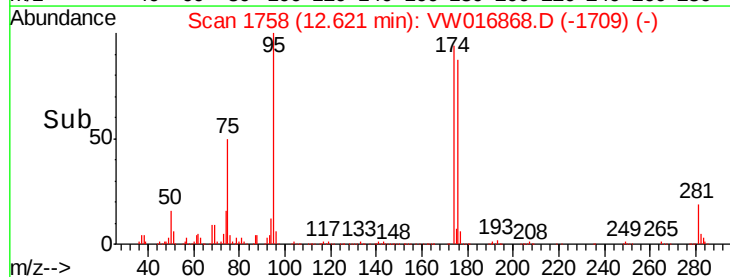
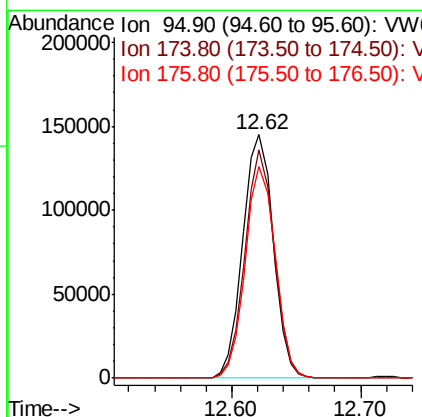
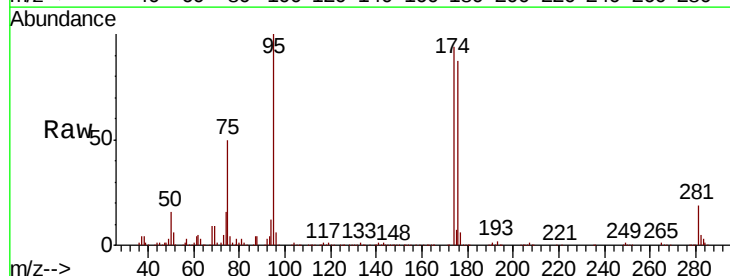
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

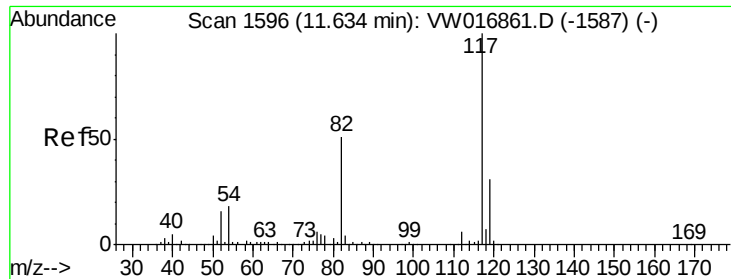
Tot Ion: 107 Resp: 6281
 Ion Ratio Lower Upper
 107 100
 109 93.1 74.7 112.1



#62
 4-Bromofluorobenzene
 Concen: 51.288 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion: 95 Resp: 237415
 Ion Ratio Lower Upper
 95 100
 174 89.8 0.0 180.6
 176 85.4 0.0 177.6

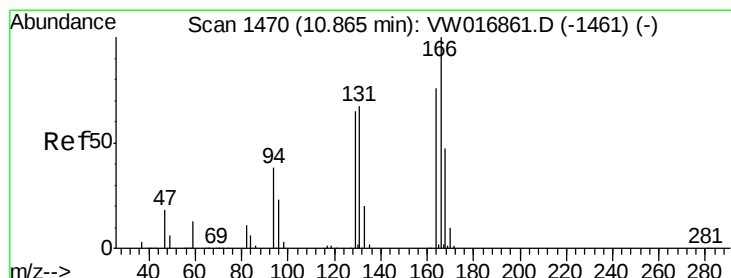
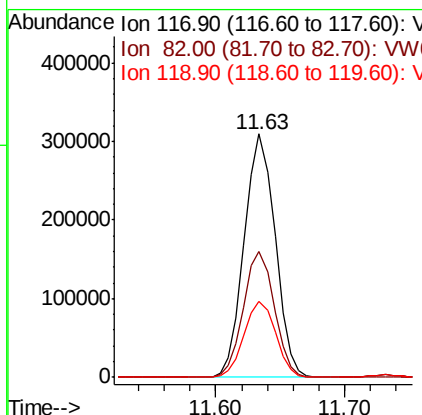
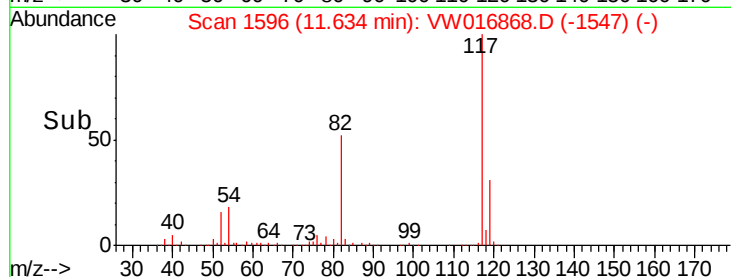
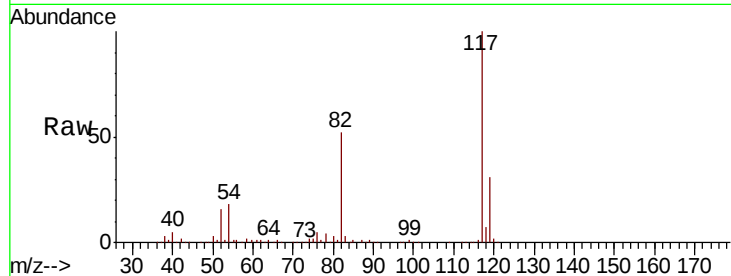




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

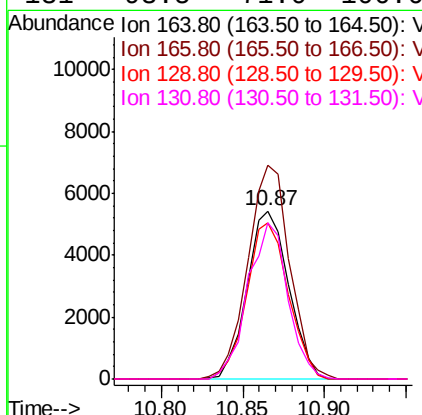
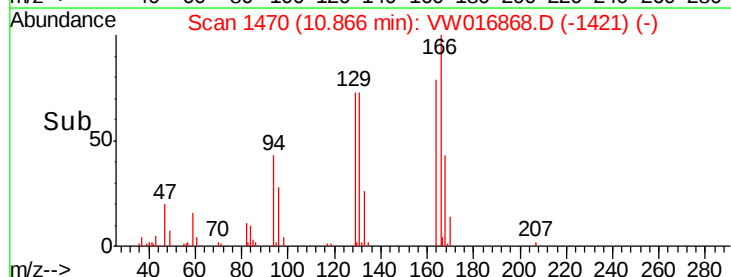
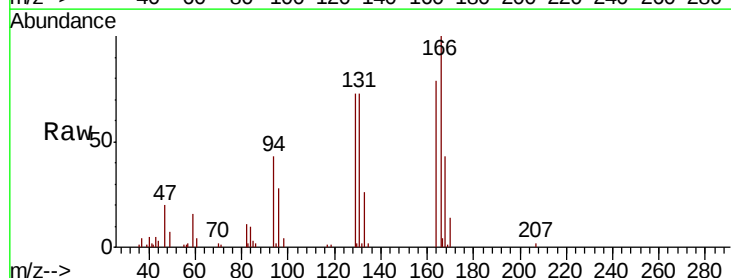
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

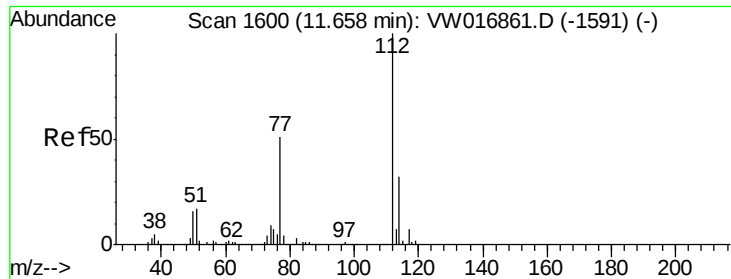
Tot Ion:117 Resp: 515776
Ion Ratio Lower Upper
117 100
82 51.8 40.7 61.1
119 31.1 25.0 37.4



#64
Tetrachloroethene
Concen: 2.627 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion:164 Resp: 9652
Ion Ratio Lower Upper
164 100
166 127.4 105.3 157.9
129 92.9 68.8 103.2
131 93.5 71.0 106.6

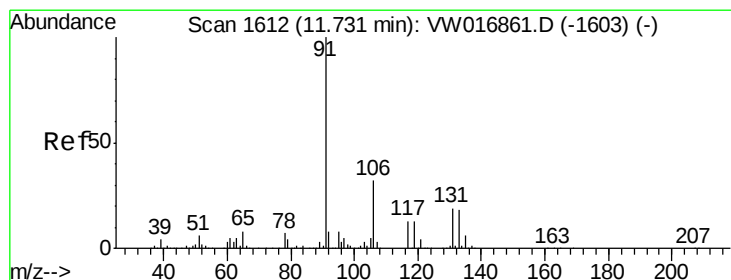
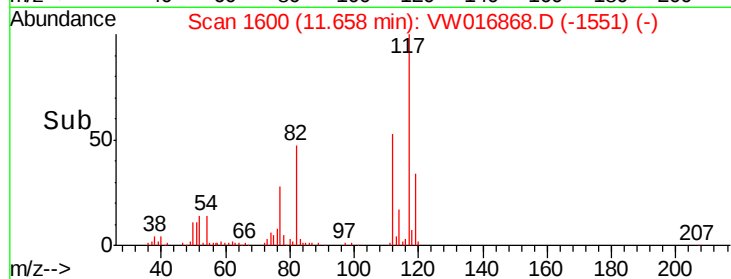
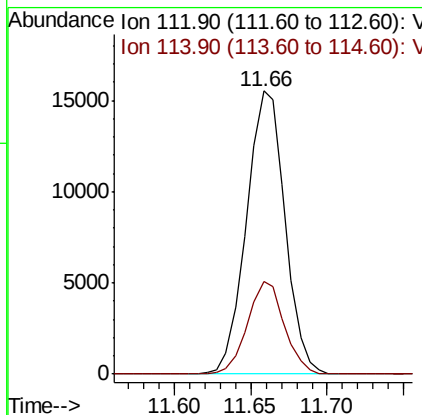
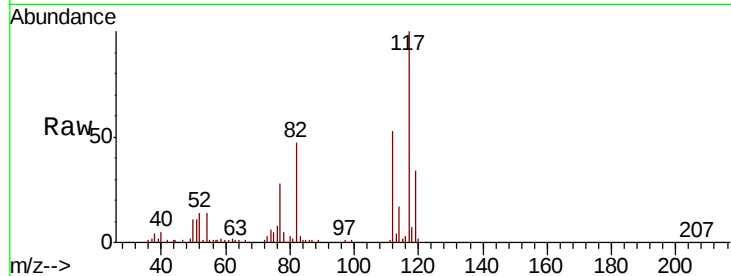




#65
Chlorobenzene
Concen: 2.681 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

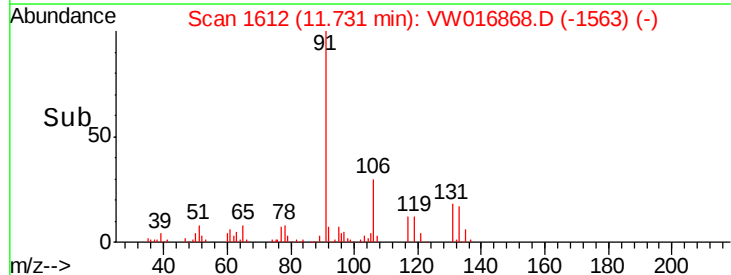
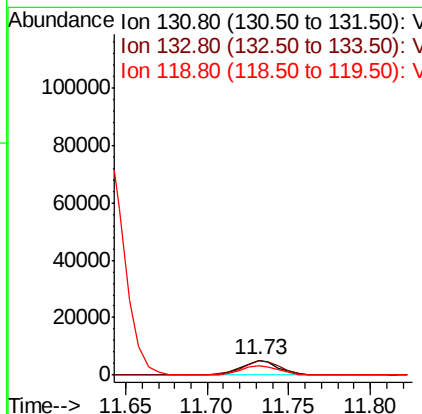
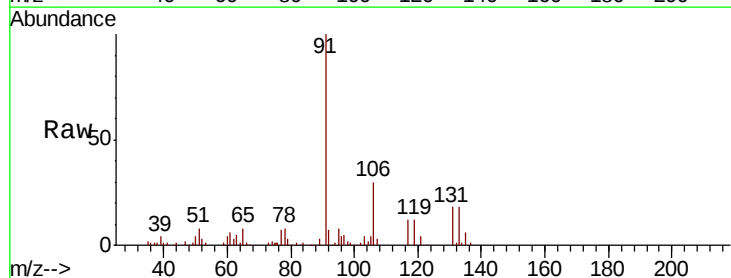
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

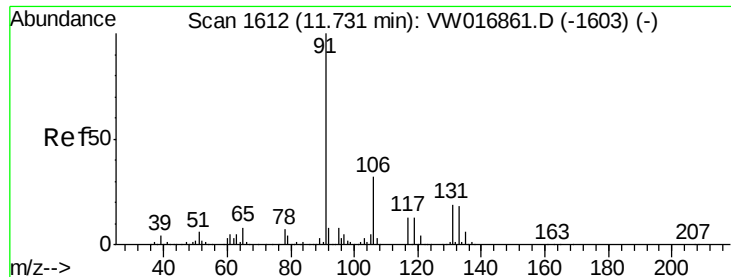
Tot Ion:112 Resp: 27127
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.302 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion:131 Resp: 8235
Ion Ratio Lower Upper
131 100
133 101.0 48.1 144.3
119 67.8 32.5 97.4

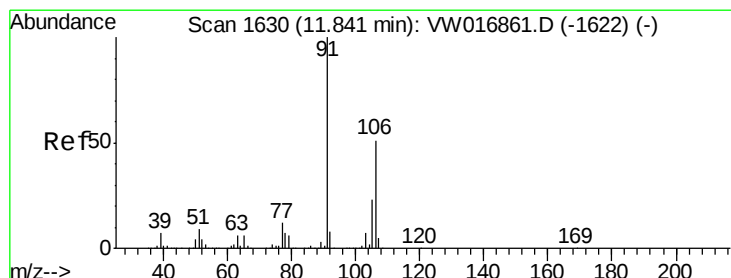
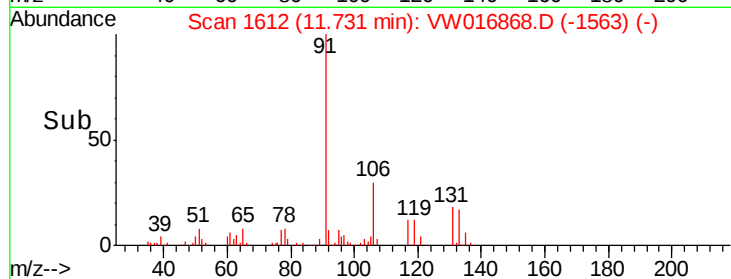
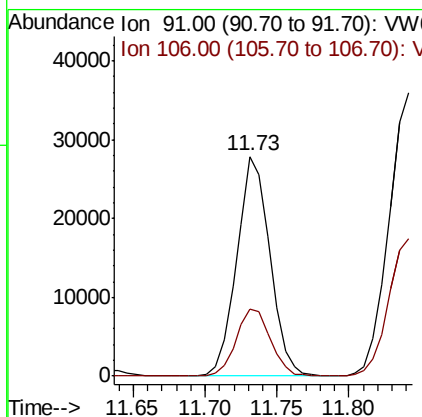
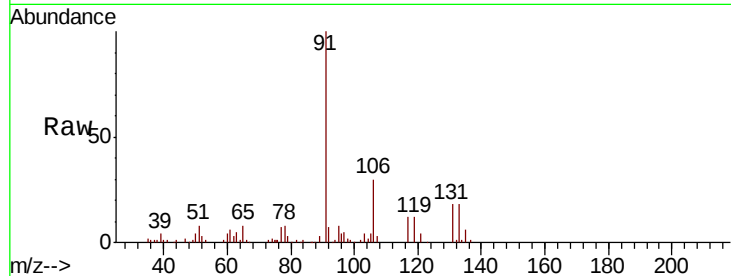




#67
Ethyl Benzene
Concen: 2.520 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

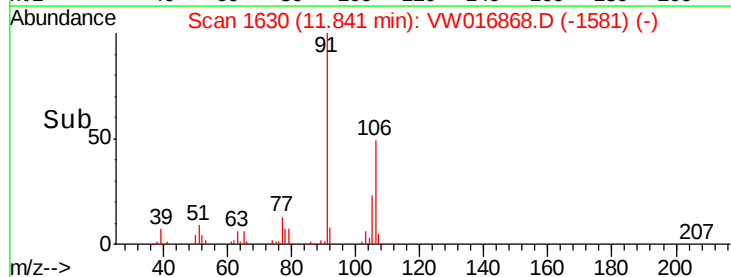
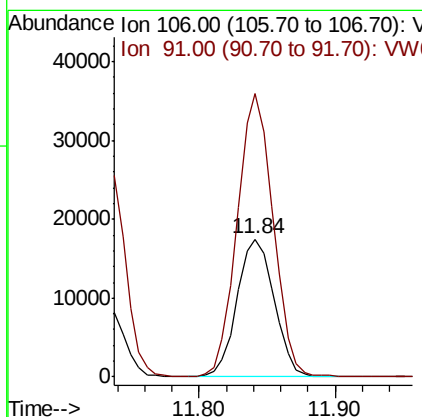
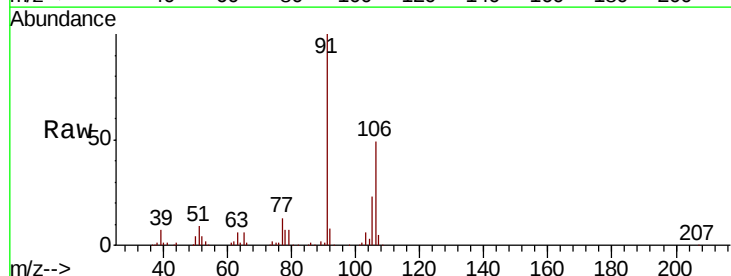
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

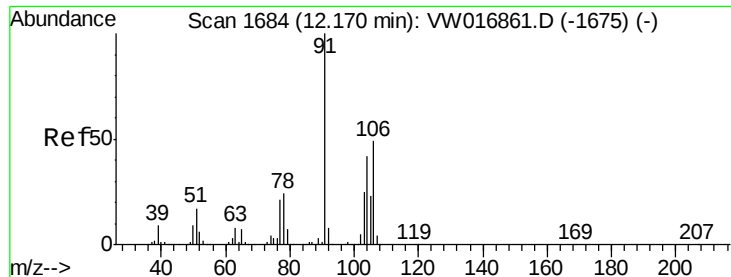
Tot Ion: 91 Resp: 44419
Ion Ratio Lower Upper
91 100
106 30.3 25.9 38.9



#68
m/p-Xylenes
Concen: 4.867 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion: 106 Resp: 33372
Ion Ratio Lower Upper
106 100
91 199.4 157.4 236.0

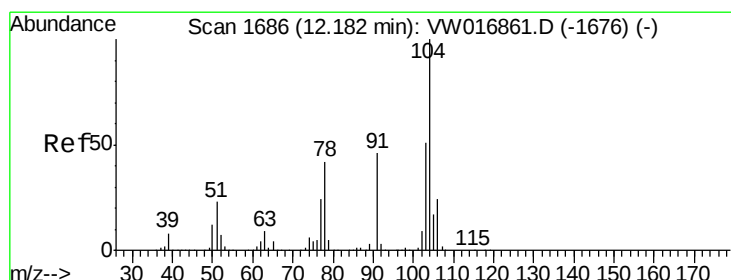
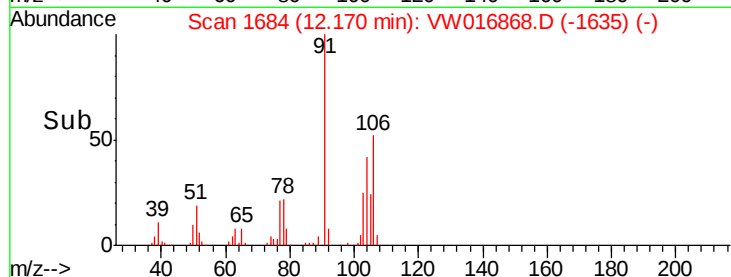
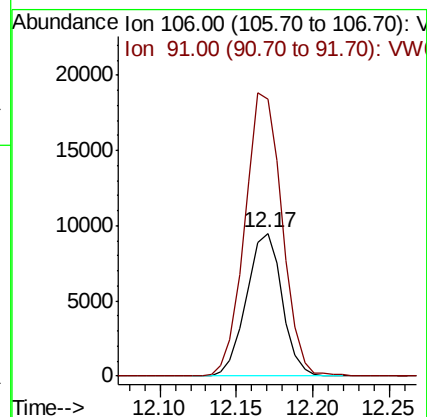
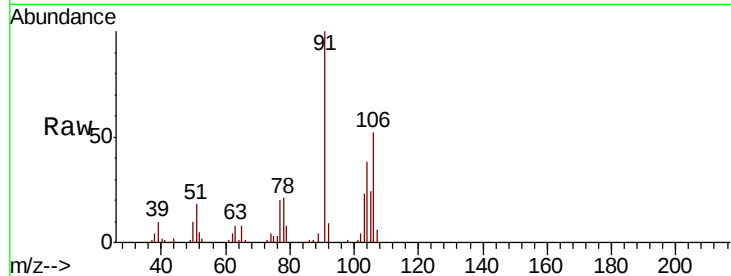




#69
o-Xylene
Concen: 2.443 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

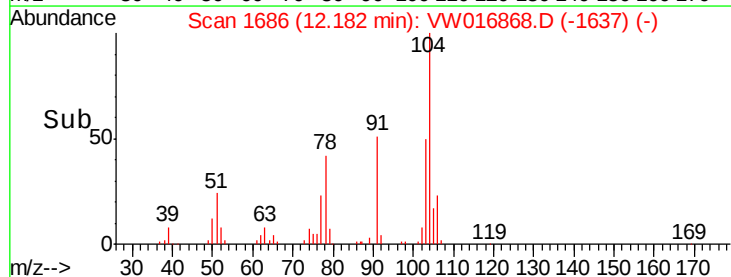
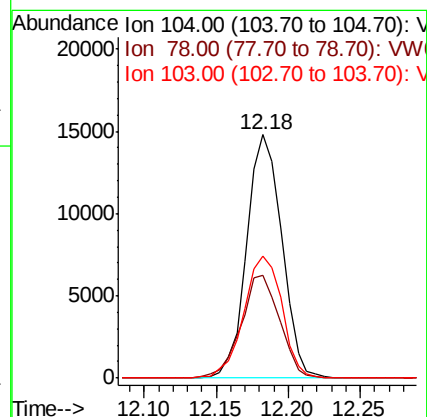
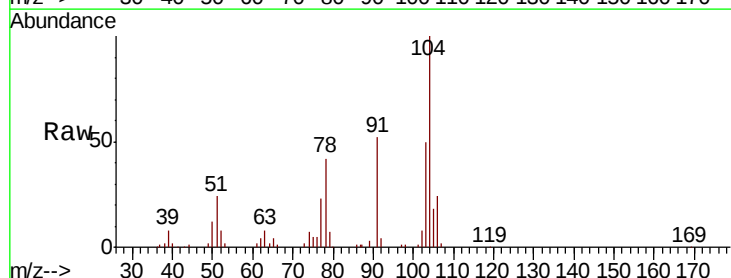
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

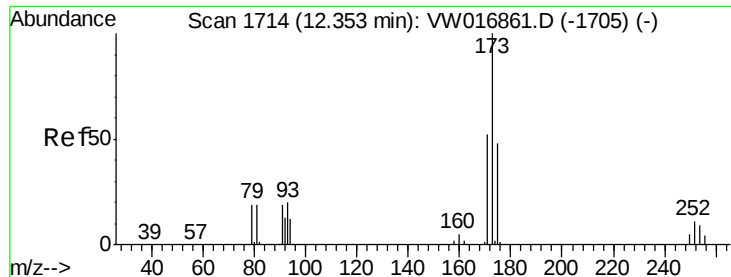
Tot Ion:106 Resp: 15368
Ion Ratio Lower Upper
106 100
91 206.9 103.6 310.9



#70
Styrene
Concen: 2.377 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion:104 Resp: 24892
Ion Ratio Lower Upper
104 100
78 46.8 37.6 56.4
103 54.6 43.6 65.4





#71

Bromoform

Concen: 2.132 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

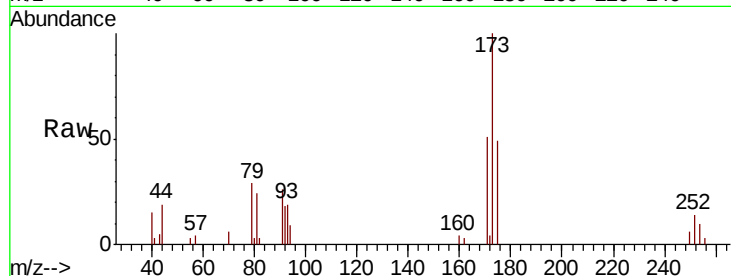
Tot Ion:173 Resp: 3829

Ion Ratio Lower Upper

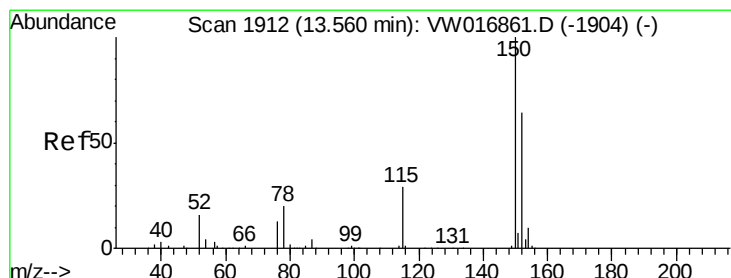
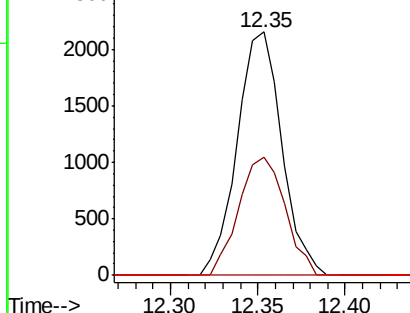
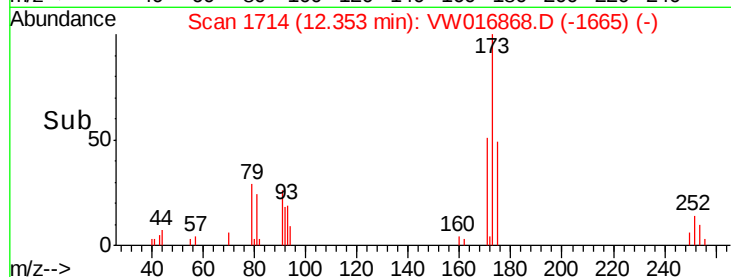
173 100

175 50.3 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: VW016868.D

Acq: 09 Oct 2020 18:54

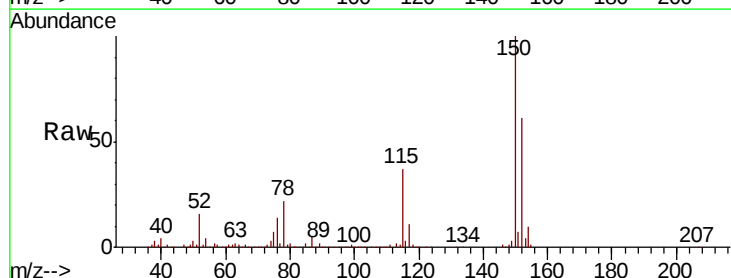
Tgt Ion:152 Resp: 257708

Ion Ratio Lower Upper

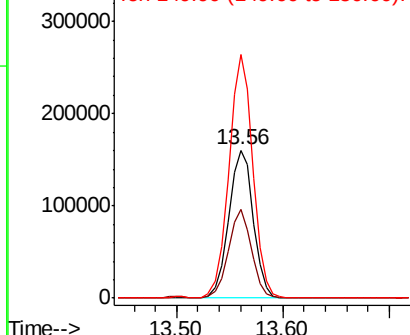
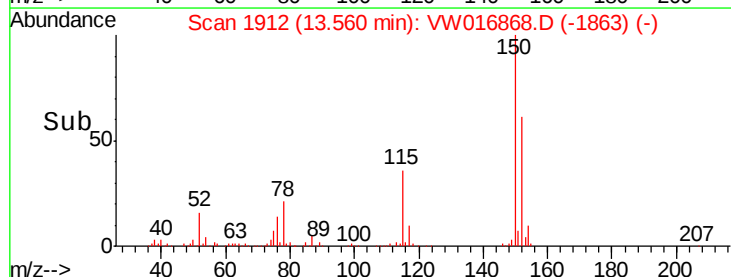
152 100

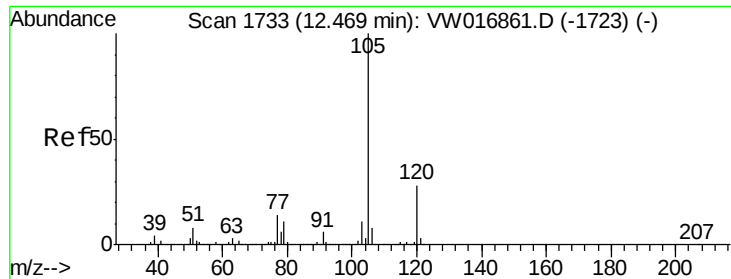
115 56.5 27.9 83.7

150 159.9 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: 2.484 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

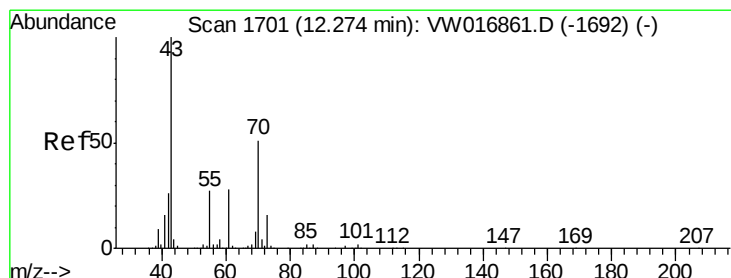
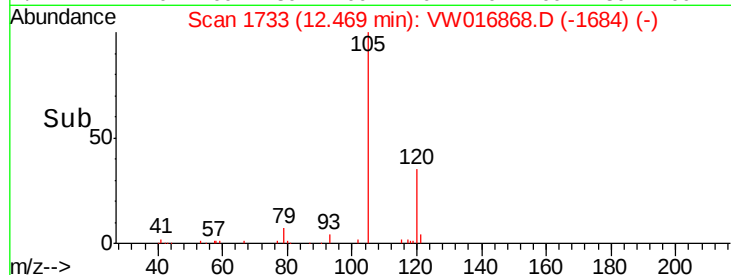
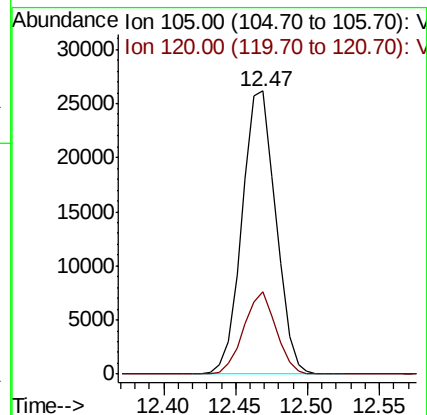
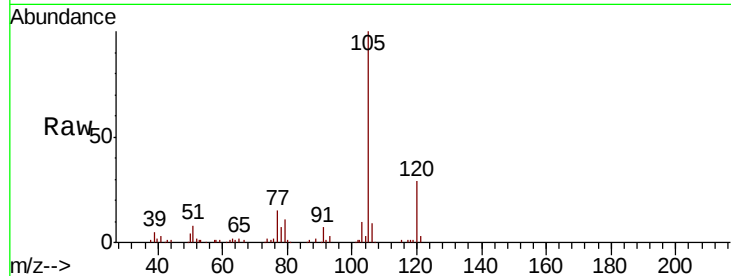
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:105 Resp: 42545

Ion Ratio Lower Upper

105 100

120 27.8 13.6 40.7



#74

N-ethyl acetate

Concen: 2.202 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Tgt Ion: 43 Resp: 6058

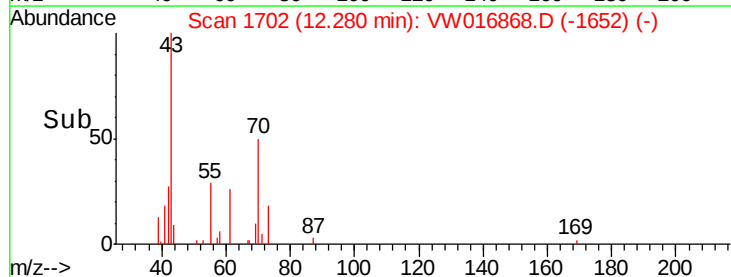
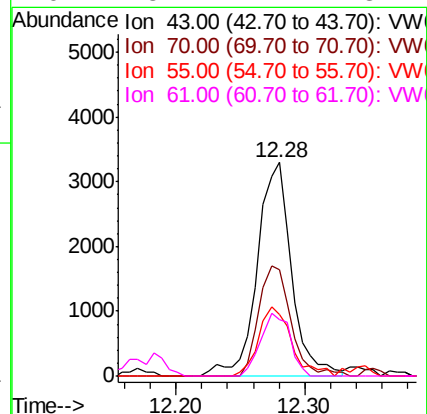
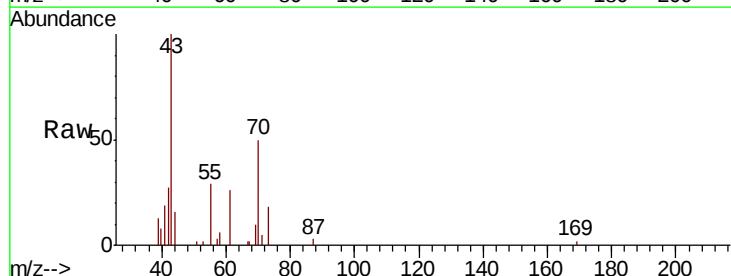
Ion Ratio Lower Upper

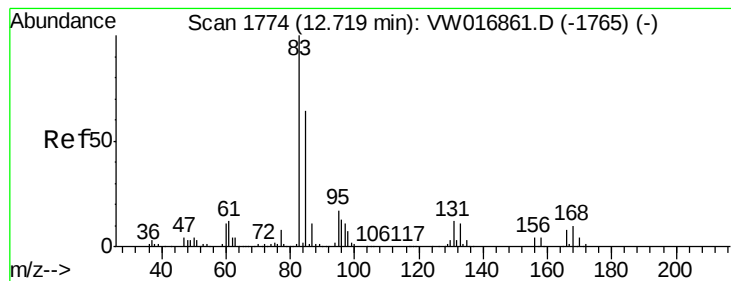
43 100

70 48.2 40.2 60.4

55 30.9 21.4 32.0

61 25.1 21.4 32.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.416 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

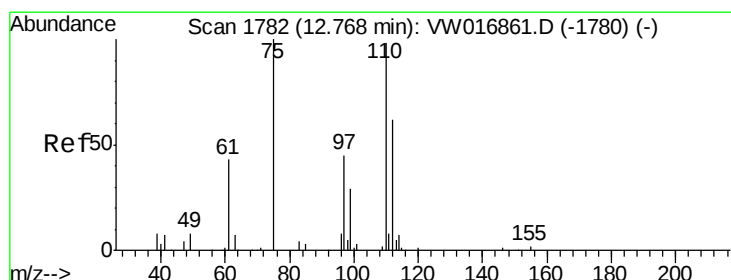
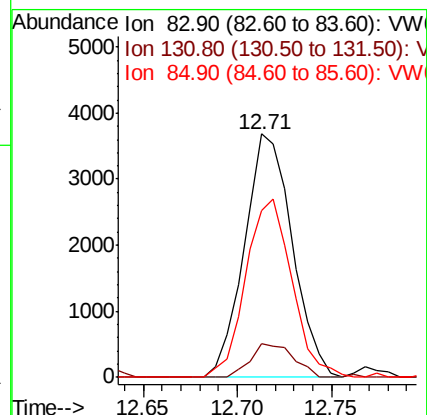
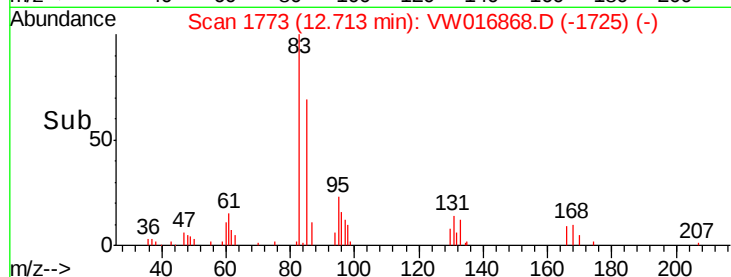
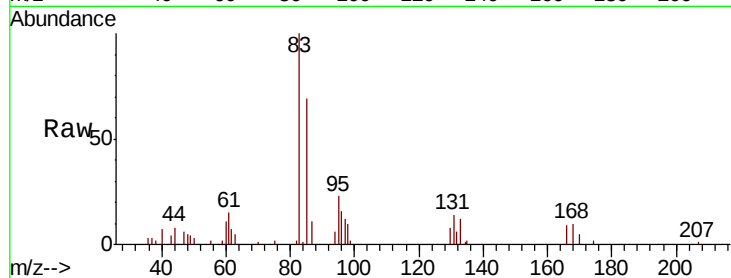
Tot Ion: 83 Resp: 6493

Ion Ratio Lower Upper

83 100

131 12.3 6.1 18.3

85 70.6 32.7 98.1



#76

1,2,3-Trichloropropane

Concen: 4.250 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016868.D

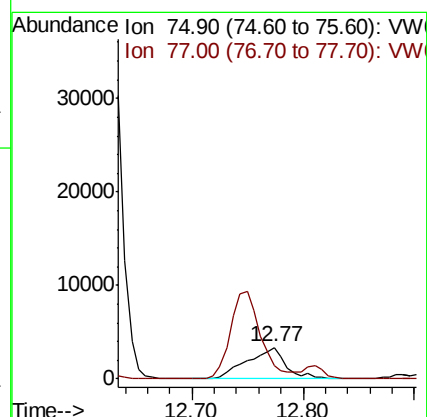
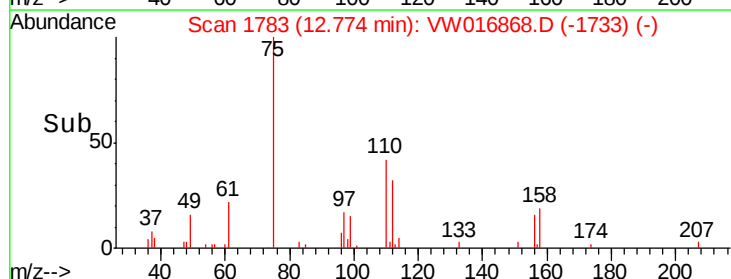
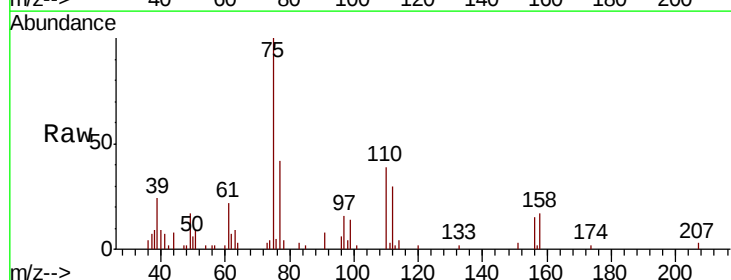
Acq: 09 Oct 2020 18:54

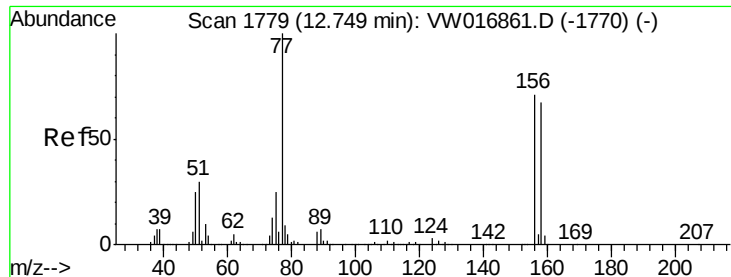
Tgt Ion: 75 Resp: 8173

Ion Ratio Lower Upper

75 100

77 0.0 178.8 536.3#





#77

Bromobenzene

Concen: 2.685 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

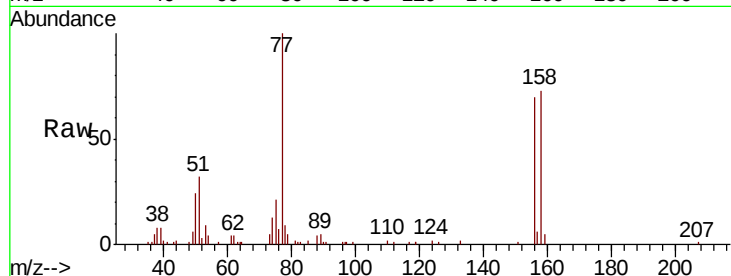
Tot Ion:156 Resp: 11370

Ion Ratio Lower Upper

156 100

77 154.4 79.0 237.2

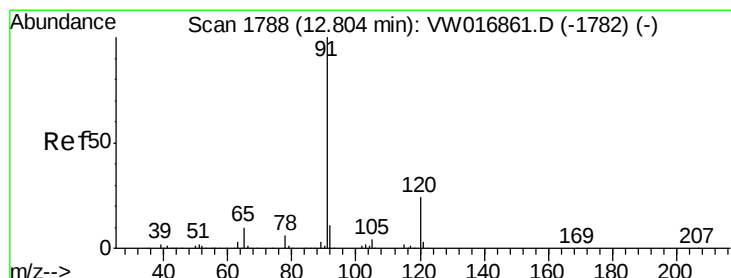
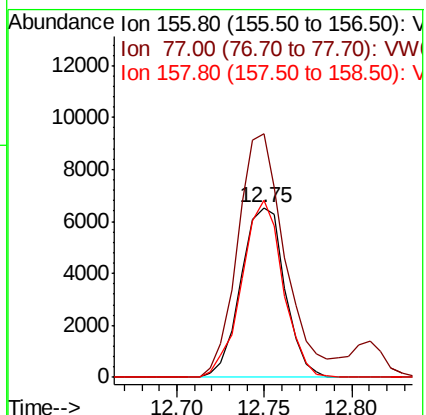
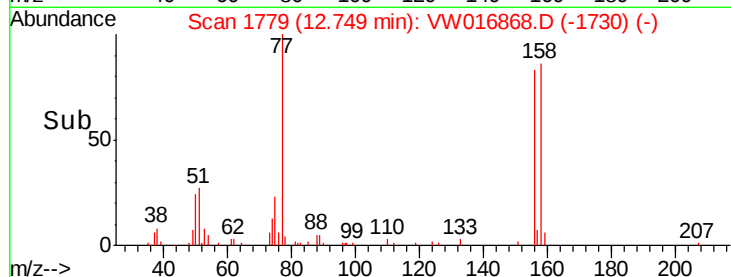
158 98.6 47.0 141.2



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: 2.562 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW016868.D

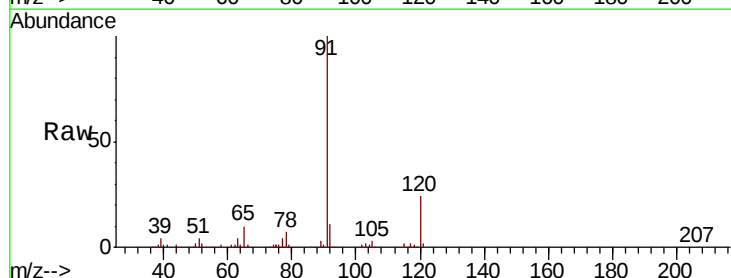
Acq: 09 Oct 2020 18:54

Tgt Ion: 91 Resp: 50607

Ion Ratio Lower Upper

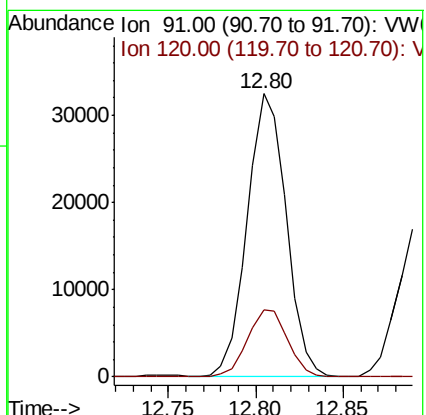
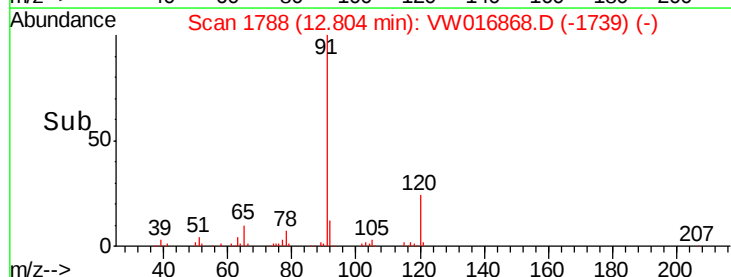
91 100

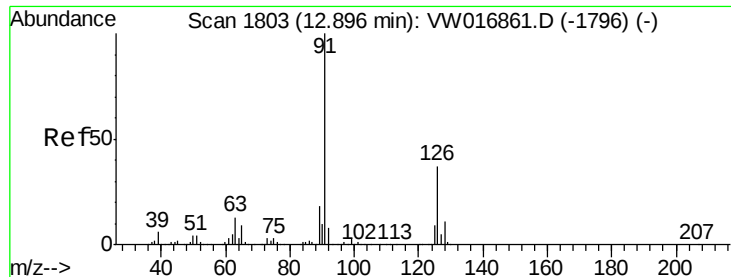
120 24.5 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.676 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

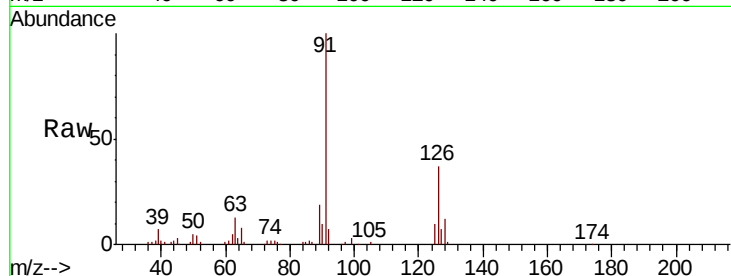
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 91 Resp: 30152

Ion Ratio Lower Upper

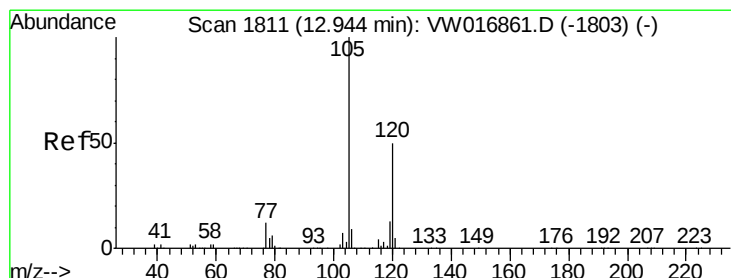
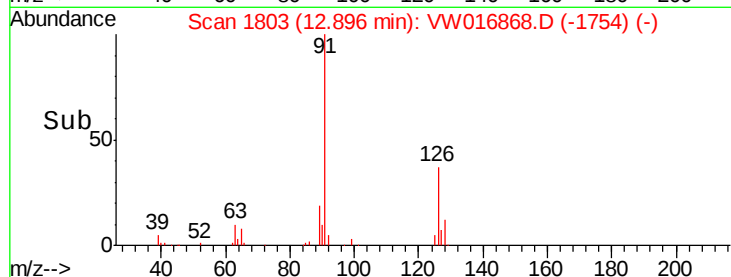
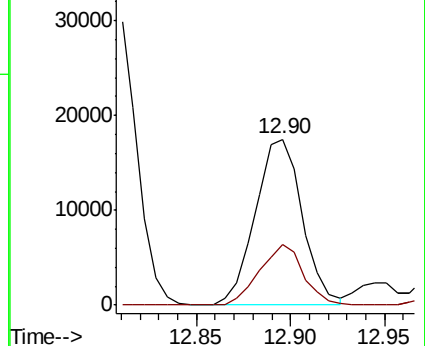
91 100

126 34.0 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: 2.500 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016868.D

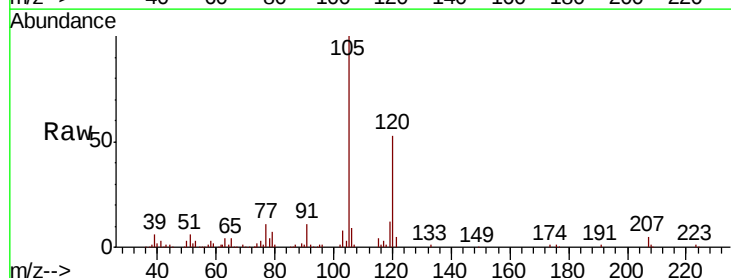
Acq: 09 Oct 2020 18:54

Tgt Ion:105 Resp: 35885

Ion Ratio Lower Upper

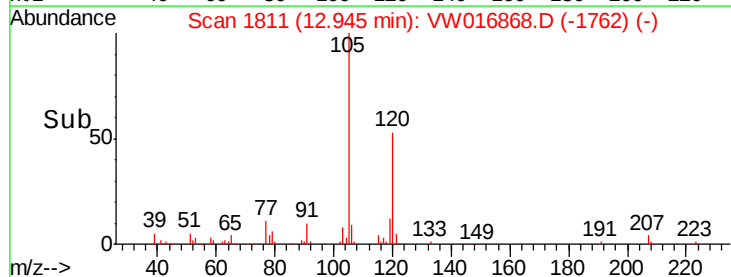
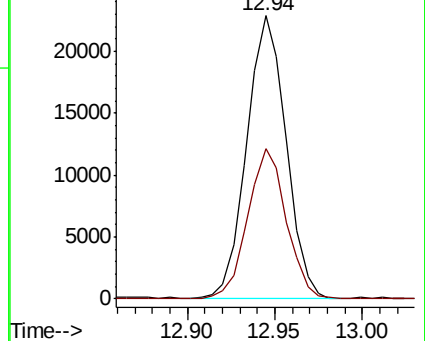
105 100

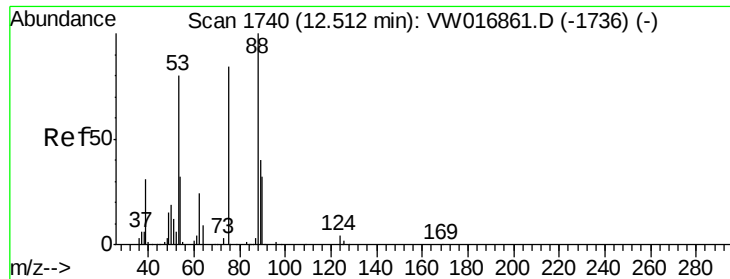
120 52.0 24.9 74.8



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: 162.222 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

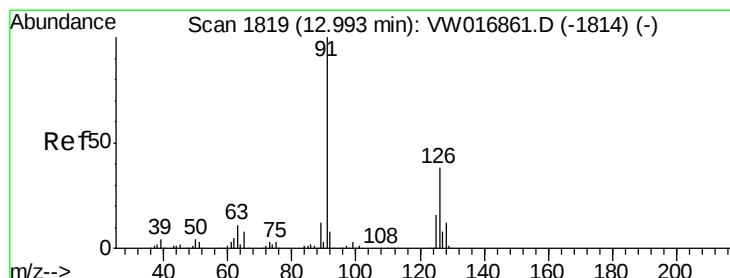
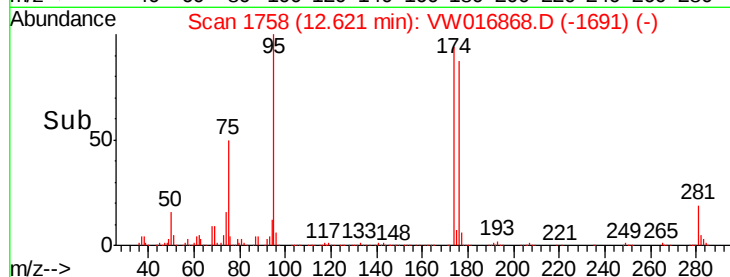
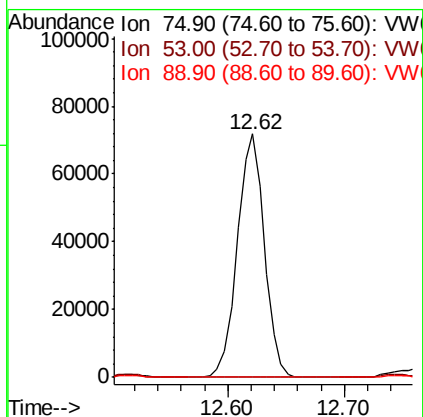
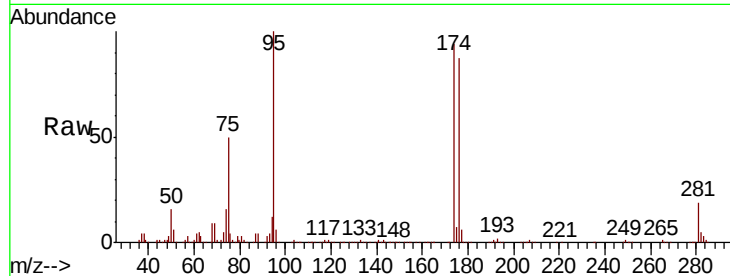
Tot Ion: 75 Resp: 116054

Ion Ratio Lower Upper

75 100

53 0.0 77.0 115.4#

89 0.2 38.7 58.1#



#82

4-Chlorotoluene

Concen: 2.637 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW016868.D

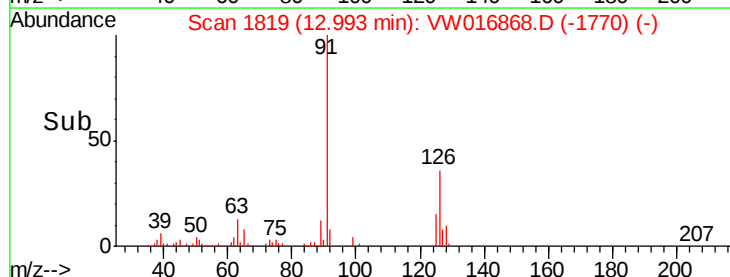
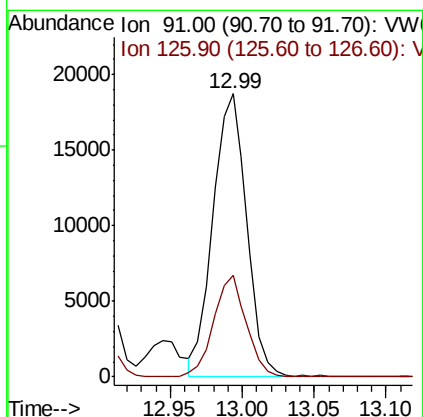
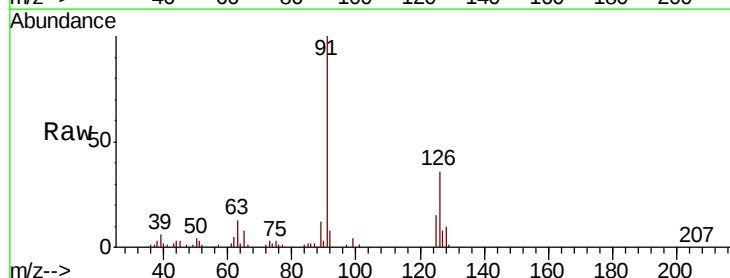
Acq: 09 Oct 2020 18:54

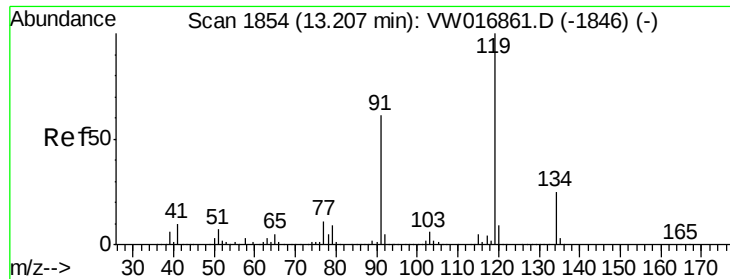
Tgt Ion: 91 Resp: 30679

Ion Ratio Lower Upper

91 100

126 34.5 18.1 54.3

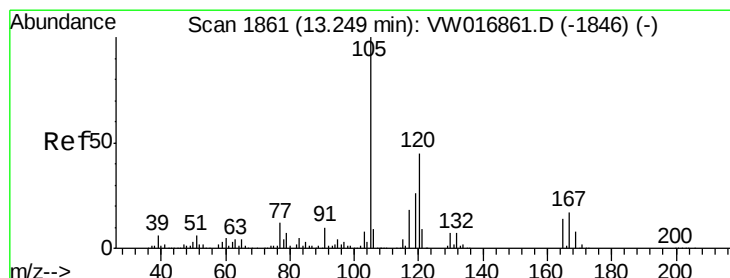
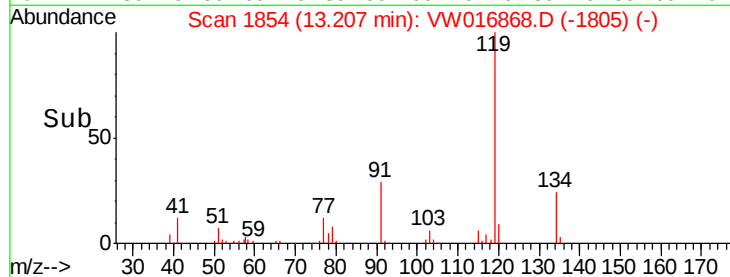
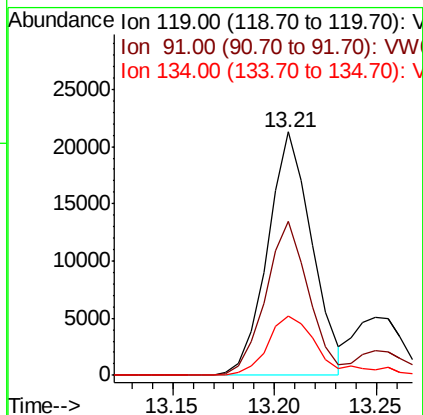
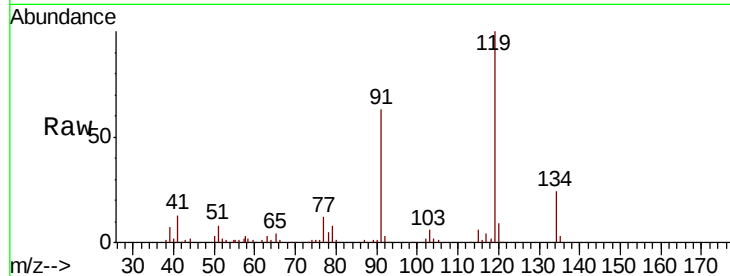




#83
tert-Butylbenzene
Concen: 2.580 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

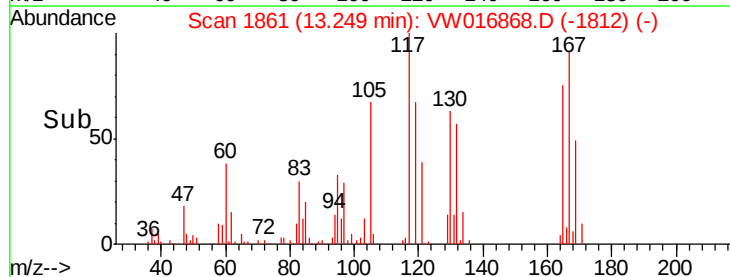
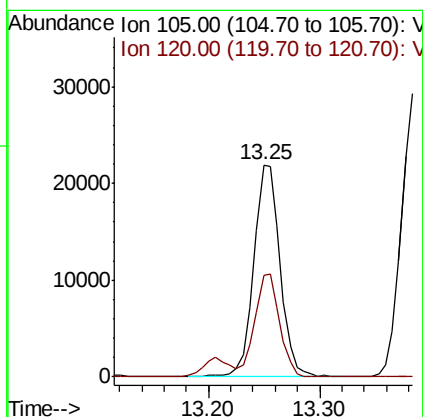
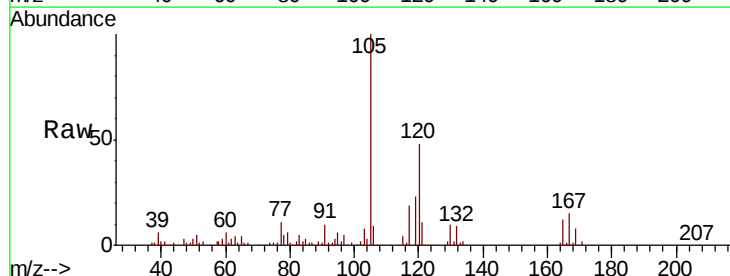
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

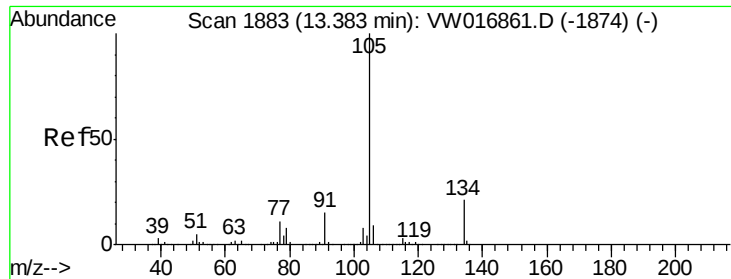
Tot Ion:119 Resp: 32167
Ion Ratio Lower Upper
119 100
91 61.3 31.3 93.9
134 28.6 14.0 42.0



#84
1,2,4-Trimethylbenzene
Concen: 2.527 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion:105 Resp: 36152
Ion Ratio Lower Upper
105 100
120 45.8 23.4 70.0





#85

sec-Butylbenzene

Concen: 2.548 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

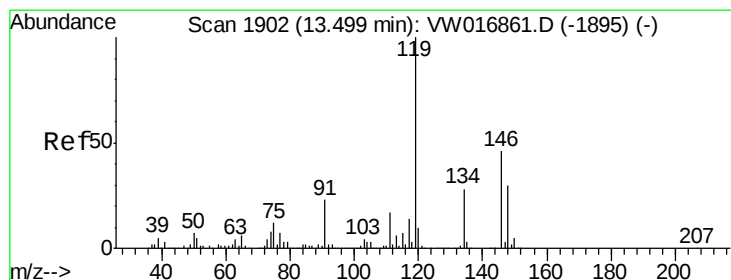
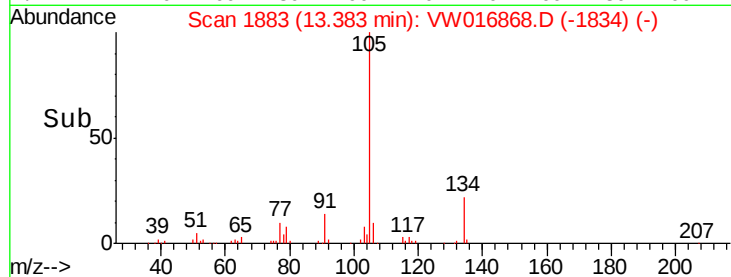
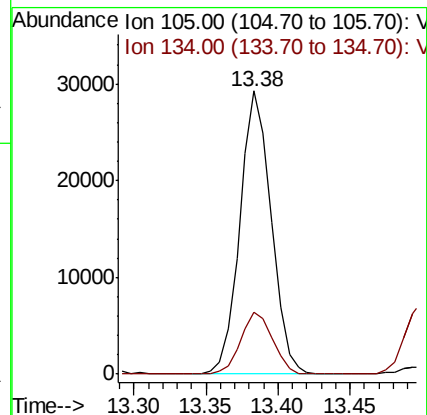
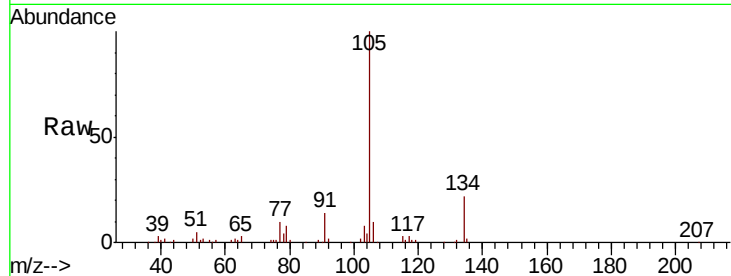
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:105 Resp: 44218

Ion Ratio Lower Upper

105 100

134 22.2 10.6 31.8



#86

p-Isopropyltoluene

Concen: 2.456 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

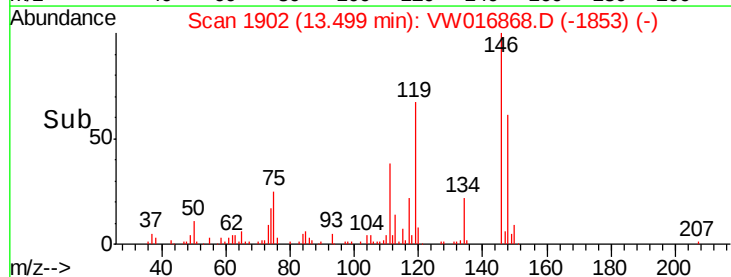
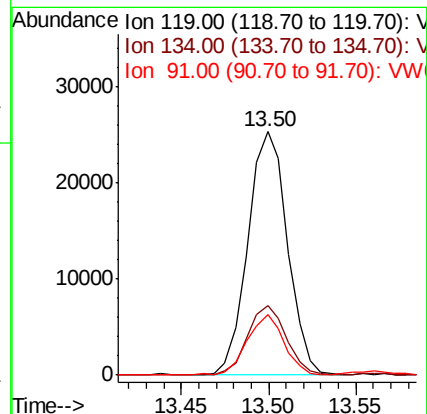
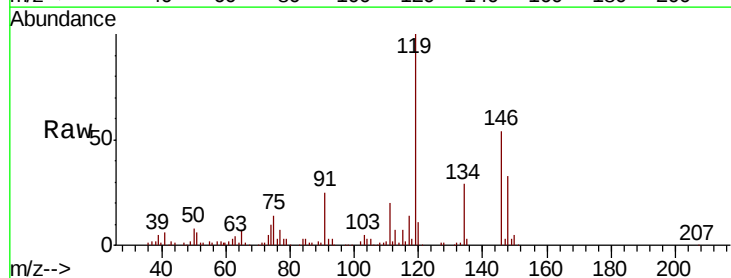
Tgt Ion:119 Resp: 39690

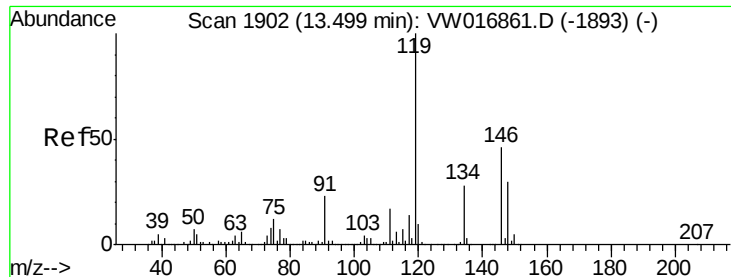
Ion Ratio Lower Upper

119 100

134 27.9 13.8 41.3

91 23.2 11.3 33.9

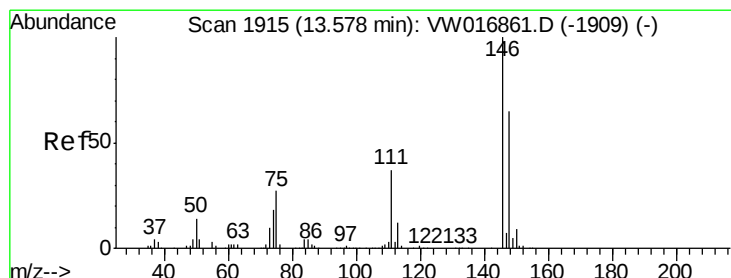
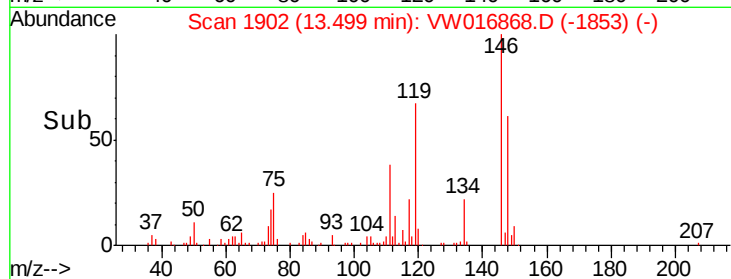
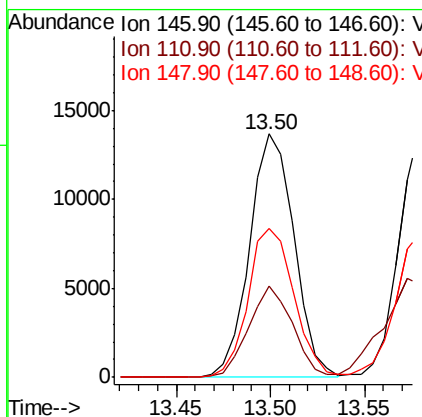
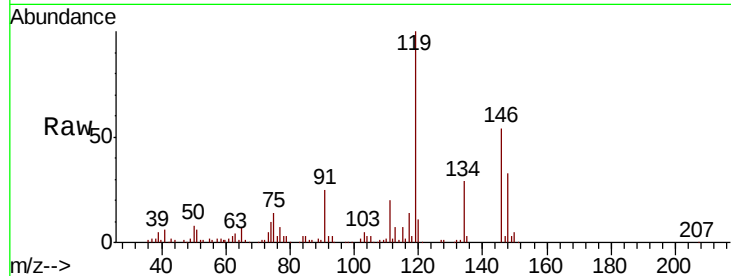




#87
 1,3-Dichlorobenzene
 Concen: 2.731 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

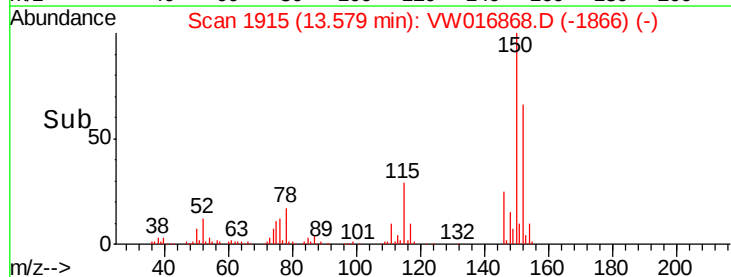
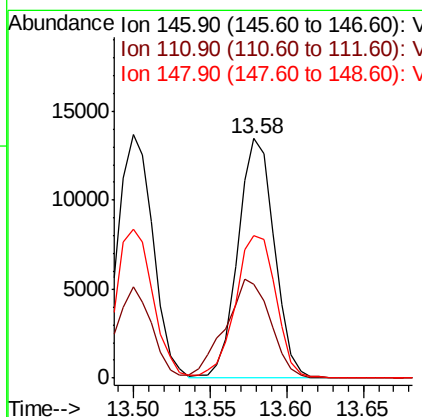
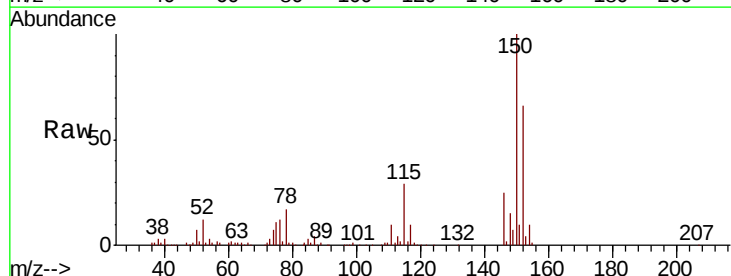
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

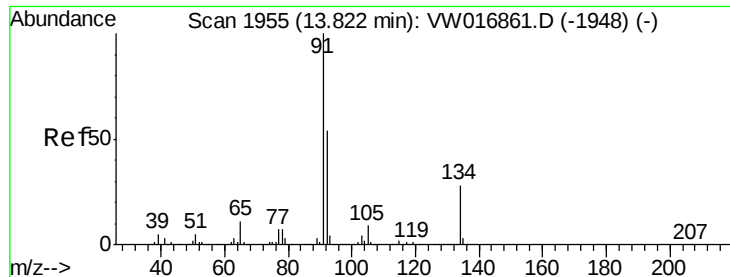
Tot Ion:146 Resp: 22360
 Ion Ratio Lower Upper
 146 100
 111 36.9 19.1 57.5
 148 63.0 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 2.762 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion:146 Resp: 22288
 Ion Ratio Lower Upper
 146 100
 111 51.2 18.5 55.5
 148 66.4 31.8 95.4





#89

n-Butylbenzene

Concen: 2.431 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW016868.D

Acq: 09 Oct 2020 18:54

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

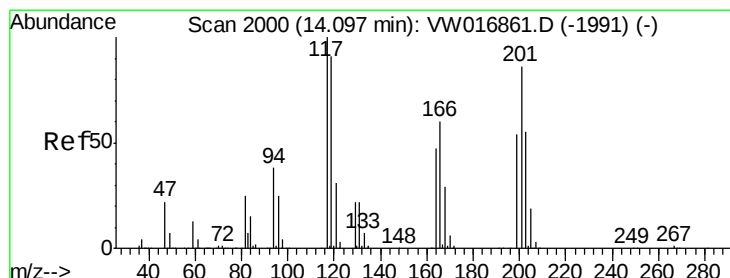
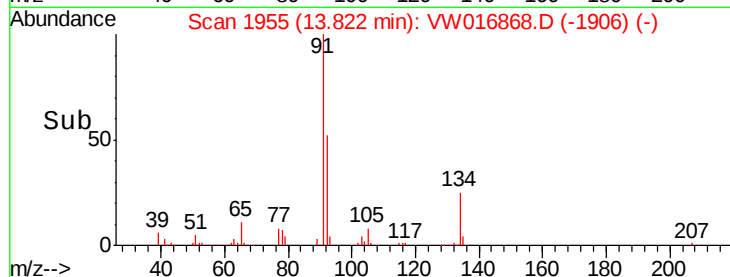
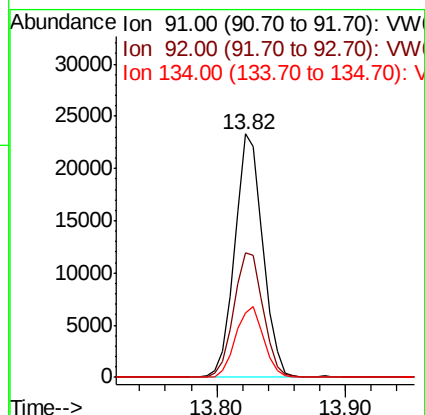
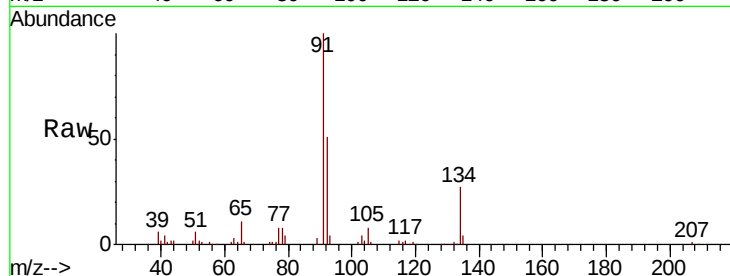
Tot Ion: 91 Resp: 35393

Ion Ratio Lower Upper

91 100

92 53.2 26.6 79.7

134 28.9 14.3 42.9



#90

Hexachloroethane

Concen: 2.463 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW016868.D

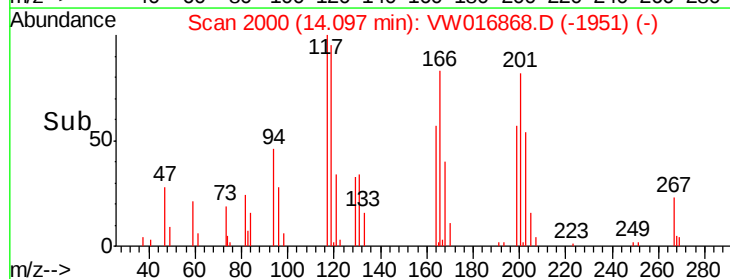
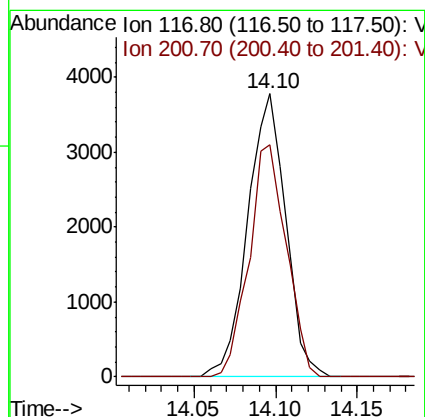
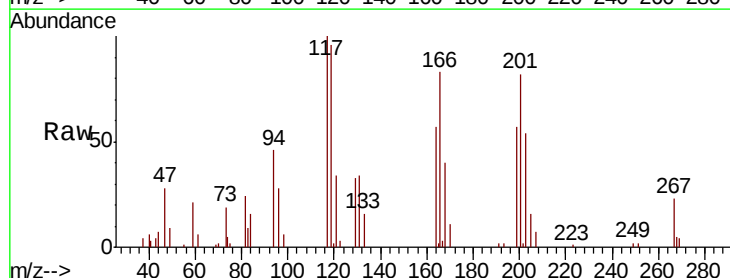
Acq: 09 Oct 2020 18:54

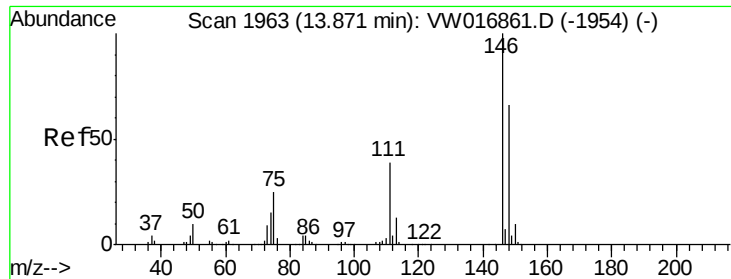
Tgt Ion: 117 Resp: 6141

Ion Ratio Lower Upper

117 100

201 80.6 41.9 125.7

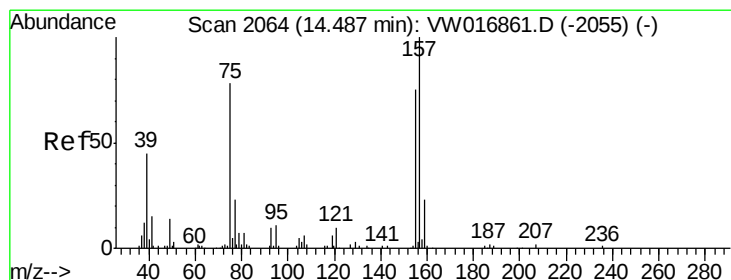
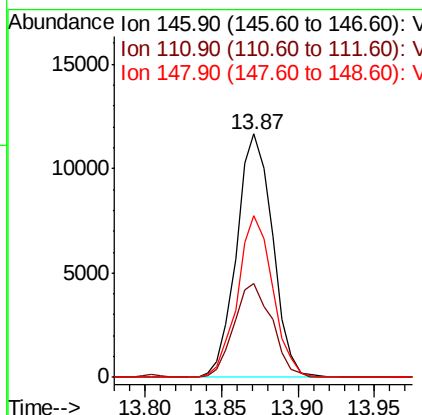
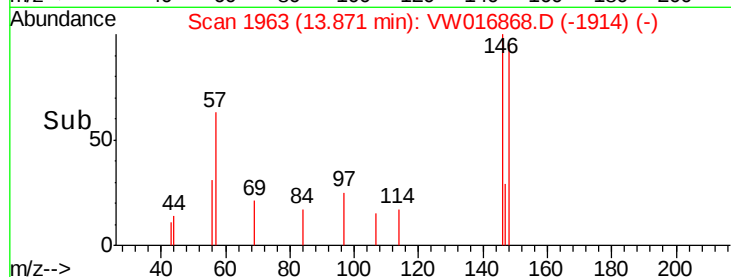
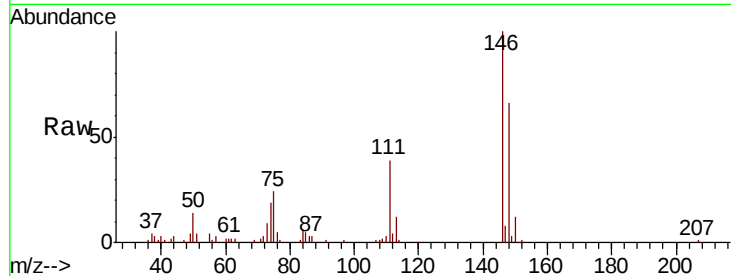




#91
 1,2-Dichlorobenzene
 Concen: 2.704 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

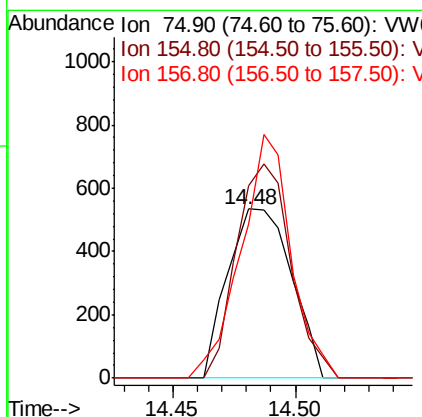
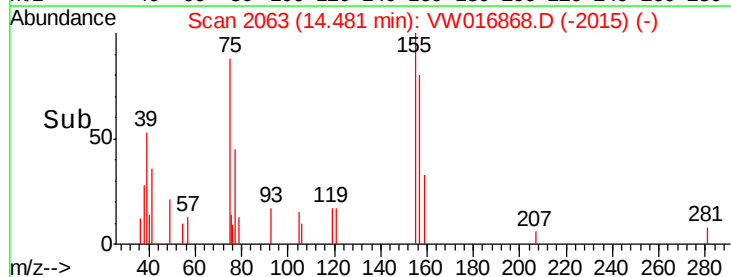
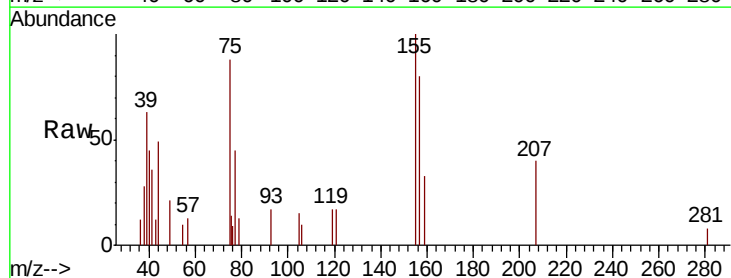
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

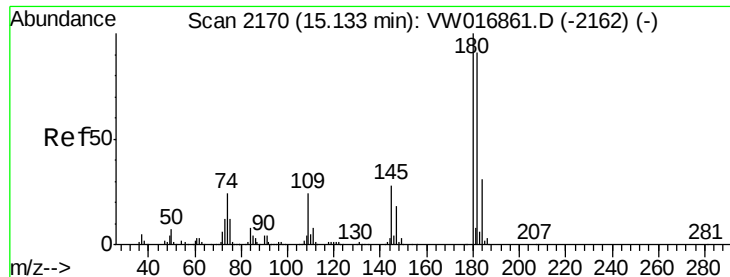
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.1	60.3
148	64.4	33.1	99.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.350 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	108.3	47.6	142.8
157	113.4	62.2	186.6

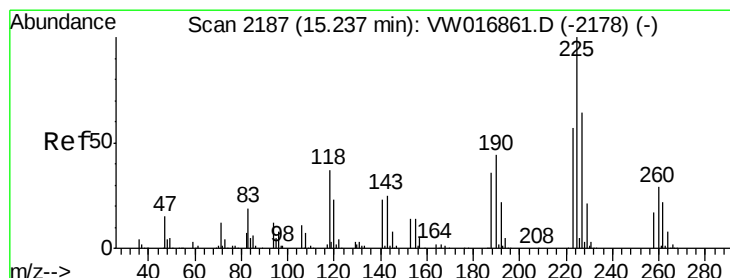
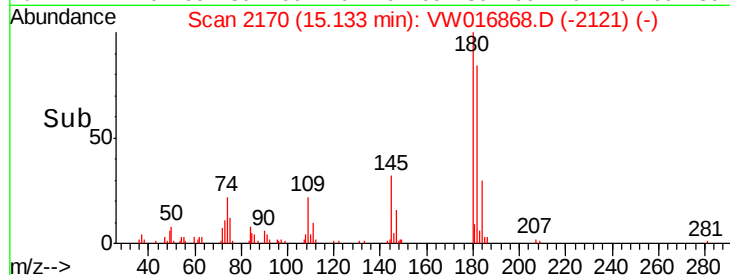
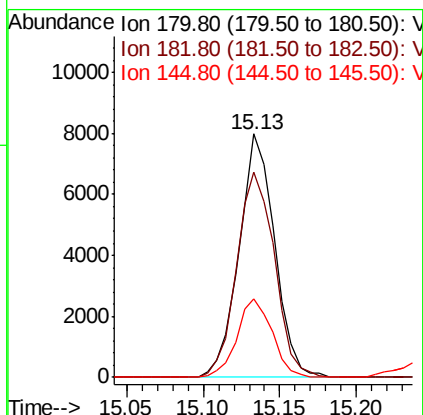
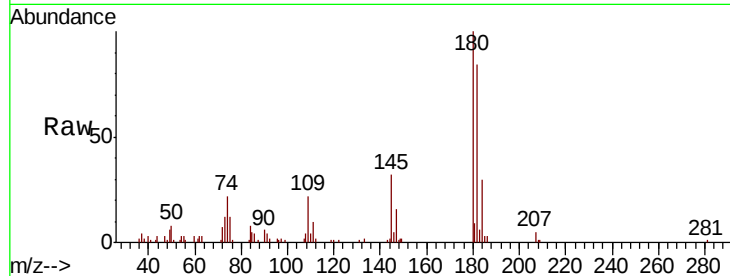




#93
 1,2,4-Trichlorobenzene
 Concen: 2.641 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

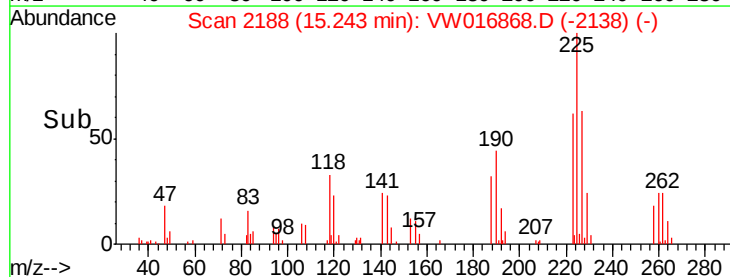
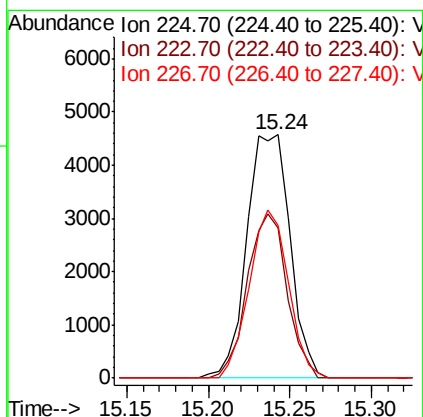
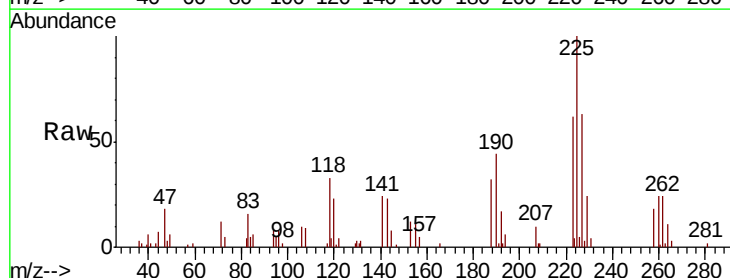
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

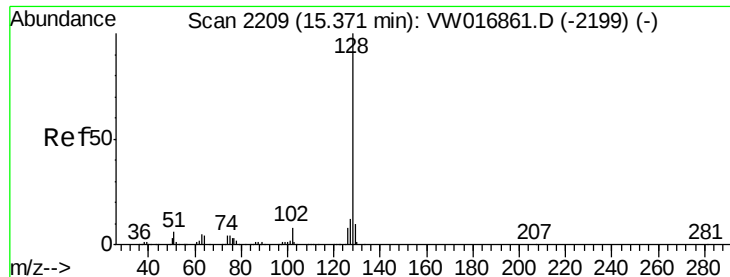
Tot Ion:180 Resp: 12874
 Ion Ratio Lower Upper
 180 100
 182 89.8 48.3 144.9
 145 31.8 14.9 44.5



#94
 Hexachlorobutadiene
 Concen: 2.667 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. 0.01 min
 Lab File: VW016868.D
 Acq: 09 Oct 2020 18:54

Tgt Ion:225 Resp: 8428
 Ion Ratio Lower Upper
 225 100
 223 61.9 31.9 95.7
 227 62.4 33.0 99.0

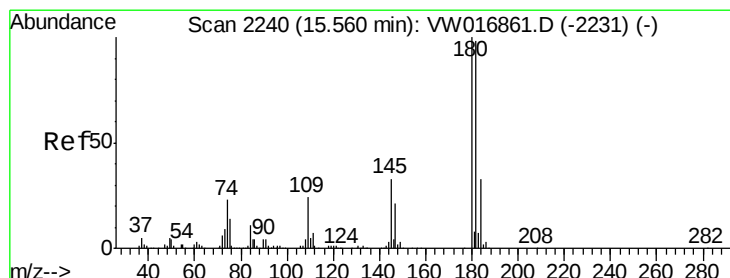
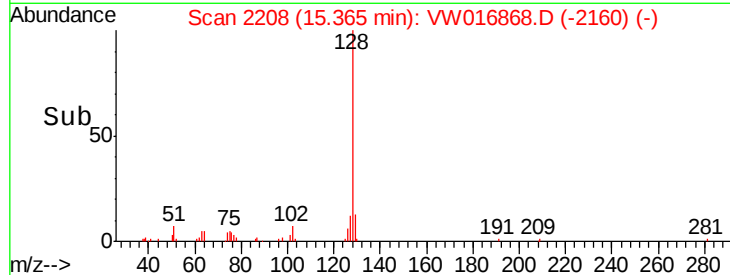
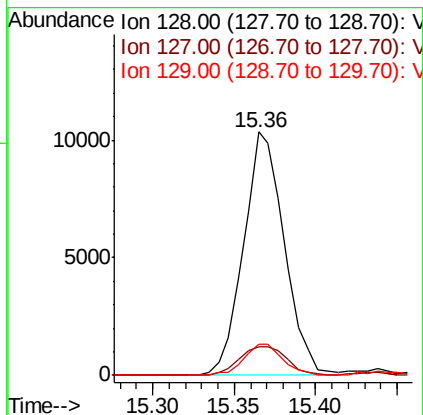
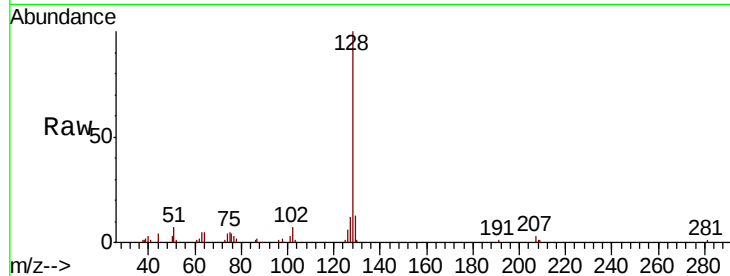




#95
Naphthalene
Concen: 2.275 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:128 Resp: 18026
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 12.2 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 2.672 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW016868.D
Acq: 09 Oct 2020 18:54

Tgt Ion:180 Resp: 11333
Ion Ratio Lower Upper
180 100
182 96.5 49.4 148.2
145 31.5 16.3 48.9

