

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050720\
 Data File : VW015418.D
 Acq On : 07 May 2020 14:14
 Operator : SY/VA
 Sample : L2182-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Quant Time: May 08 07:32:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050620S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 18:41:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	216038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	356152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	319776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	152543	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	118467	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
35) Dibromofluoromethane	7.88	113	103134	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
50) Toluene-d8	10.32	98	424912	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	12.62	95	151172	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.02	85	2895	2.318	ug/l	86
3) Chloromethane	2.21	50	4362	2.790	ug/l	93
4) Vinyl Chloride	2.36	62	5729	2.419	ug/l	99
5) Bromomethane	2.78	94	4753	2.562	ug/l	89
6) Chloroethane	2.93	64	3920	2.402	ug/l	99
7) Trichlorofluoromethane	3.26	101	3945	2.271	ug/l	95
8) Diethyl Ether	3.68	74	2948	2.716	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	4.06	101	5464	2.714	ug/l	98
10) Methyl Iodide	4.27	142	7575	2.486	ug/l	97
11) Tert butyl alcohol	5.21	59	2578	18.825	ug/l #	82
12) 1,1-Dichloroethene	4.04	96	5595	2.679	ug/l	96
13) Acrolein	3.90	56	2213	12.654	ug/l #	73
14) Allyl chloride	4.67	41	9142	2.499	ug/l	96
15) Acrylonitrile	5.38	53	6051	13.698	ug/l	97
16) Acetone	4.14	43	6532	17.706	ug/l	96
17) Carbon Disulfide	4.37	76	15533	2.426	ug/l	99
18) Methyl Acetate	4.68	43	3030	3.094	ug/l	96
19) Methyl tert-butyl Ether	5.42	73	8959	2.670	ug/l	99
20) Methylene Chloride	4.92	84	7246	3.010	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	6275	2.647	ug/l	93
22) Diisopropyl ether	6.31	45	18234	2.550	ug/l	89
23) Vinyl Acetate	6.26	43	52079	11.983	ug/l	98
24) 1,1-Dichloroethane	6.22	63	10915	2.547	ug/l	98
25) 2-Butanone	7.18	43	8562	14.889	ug/l	100
26) 2,2-Dichloropropane	7.17	77	8909	3.136	ug/l	92
27) cis-1,2-Dichloroethene	7.17	96	6629	2.576	ug/l	90
28) Bromochloromethane	7.51	49	4380	2.542	ug/l #	98
29) Tetrahydrofuran	7.54	42	5088	13.445	ug/l	99
30) Chloroform	7.68	83	11154	2.619	ug/l	100
31) Cyclohexane	7.95	56	15988	3.674	ug/l #	73
32) 1,1,1-Trichloroethane	7.87	97	9247	2.584	ug/l	98
36) 1,1-Dichloropropene	8.08	75	9404	2.688	ug/l	98
37) Ethyl Acetate	7.26	43	3680	2.710	ug/l	99
38) Carbon Tetrachloride	8.07	117	8437	2.579	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	11751	2.653	ug/l	95
40) Benzene	8.32	78	24686	2.587	ug/l	96
41) Methacrylonitrile	7.49	41	2428	2.830	ug/l	90
42) 1,2-Dichloroethane	8.40	62	8080	2.780	ug/l	99
43) Isopropyl Acetate	8.43	43	7761	2.718	ug/l	98
44) Trichloroethene	9.09	130	6499	2.627	ug/l	99
45) 1,2-Dichloropropane	9.37	63	6295	2.670	ug/l	95
46) Dibromomethane	9.46	93	3099	2.643	ug/l	96
47) Bromodichloromethane	9.65	83	8291	2.594	ug/l #	95
48) Methyl methacrylate	9.44	41	3551	2.692	ug/l	93
49) 1,4-Dioxane	9.46	88	873	59.162	ug/l #	73
51) 4-Methyl-2-Pentanone	10.21	43	22028	16.461	ug/l	98
52) Toluene	10.39	92	15733	2.537	ug/l	96
53) t-1,3-Dichloropropene	10.61	75	7884	2.417	ug/l	95
54) cis-1,3-Dichloropropene	10.07	75	9376	2.441	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	4244	2.560	ug/l	98
56) Ethyl methacrylate	10.65	69	5577	2.448	ug/l #	86
57) 1,3-Dichloropropane	10.93	76	7789	2.613	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	14802	13.355	ug/l	97
59) 2-Hexanone	10.97	43	11352	12.537	ug/l	98
60) Dibromochloromethane	11.13	129	4878	2.446	ug/l	98
61) 1,2-Dibromoethane	11.23	107	4003	2.550	ug/l	99
64) Tetrachloroethene	10.86	164	5563	2.846	ug/l	93
65) Chlorobenzene	11.66	112	16662	2.643	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	5629	2.518	ug/l	99
67) Ethyl Benzene	11.73	91	31579	2.617	ug/l	98
68) m/p-Xylenes	11.84	106	23380	5.211	ug/l	97
69) o-Xylene	12.16	106	10946	2.596	ug/l	98
70) Styrene	12.18	104	17829	2.455	ug/l	99
71) Bromoform	12.35	173	2496	2.290	ug/l #	96
73) Isopropylbenzene	12.46	105	30068	2.640	ug/l	99
74) N-amyl acetate	12.27	43	6785	2.520	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	4887	2.743	ug/l	99
76) 1,2,3-Trichloropropane	12.76	75	3096m	2.467	ug/l	
77) Bromobenzene	12.74	156	6356	2.634	ug/l	95
78) n-propylbenzene	12.80	91	37602	2.752	ug/l	100
79) 2-Chlorotoluene	12.89	91	20974	2.723	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	25536	2.662	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	1513m	2.385	ug/l	
82) 4-Chlorotoluene	12.99	91	21933	2.687	ug/l	98
83) tert-Butylbenzene	13.20	119	22086	2.698	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	25445	2.651	ug/l	98
85) sec-Butylbenzene	13.38	105	31027	2.690	ug/l	100
86) p-Isopropyltoluene	13.50	119	28220	2.683	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	13118	2.729	ug/l	96
88) 1,4-Dichlorobenzene	13.58	146	13509	2.837	ug/l	86
89) n-Butylbenzene	13.82	91	27287	2.650	ug/l	99
90) Hexachloroethane	14.09	117	5192	2.679	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	11549	2.775	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	842	2.707	ug/l	94

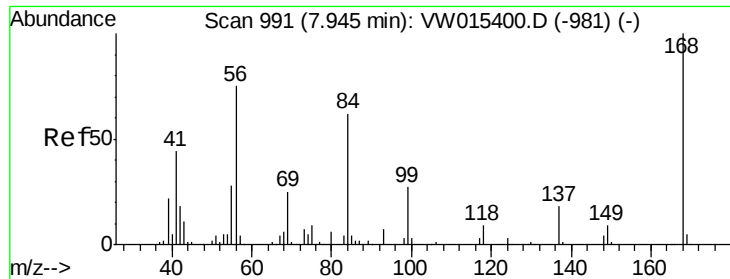
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	7586	2.712	ug/l	99
94) Hexachlorobutadiene	15.24	225	4529	2.732	ug/l	96
95) Naphthalene	15.36	128	12551	2.505	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	6748	2.807	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

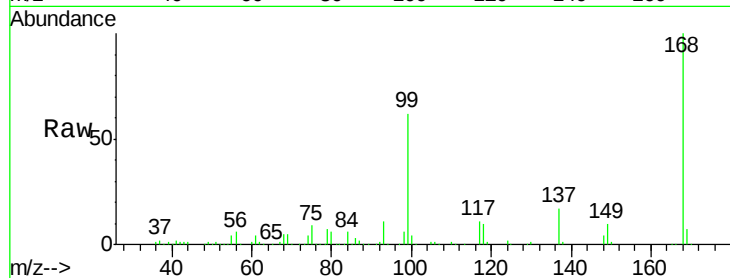
MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 216038

Ion Ratio Lower Upper

168 100

99 62.3 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

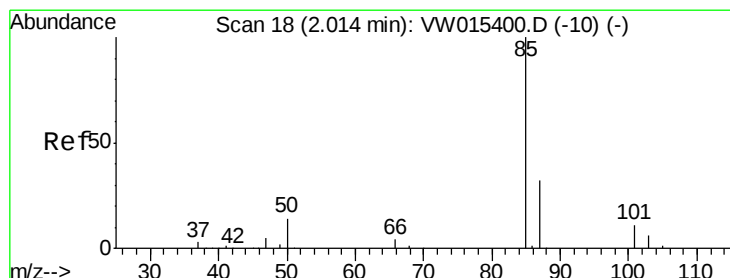
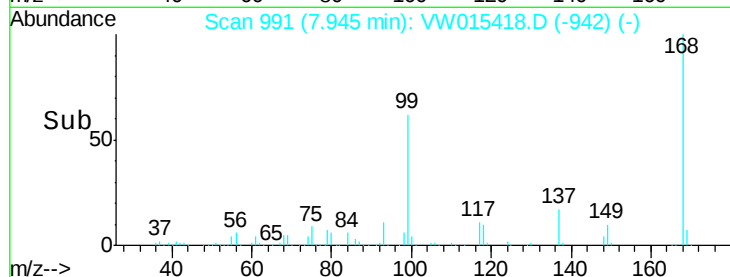
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.318 ug/l

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW015418.D

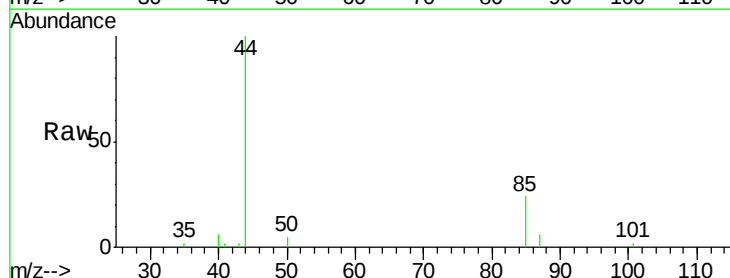
Acq: 07 May 2020 14:14

Tgt Ion: 85 Resp: 2895

Ion Ratio Lower Upper

85 100

87 24.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.02

1000

800

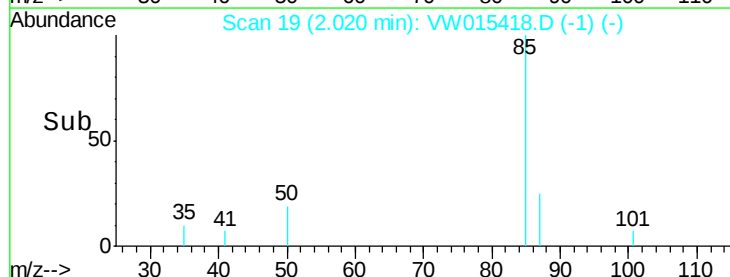
600

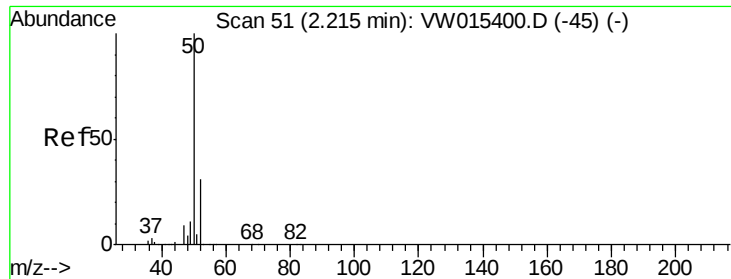
400

200

0

Time-->





#3

Chloromethane

Concen: 2.790 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

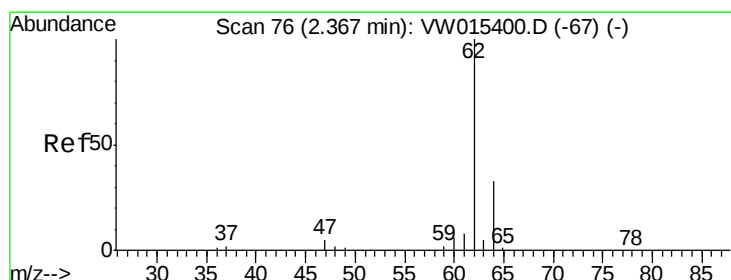
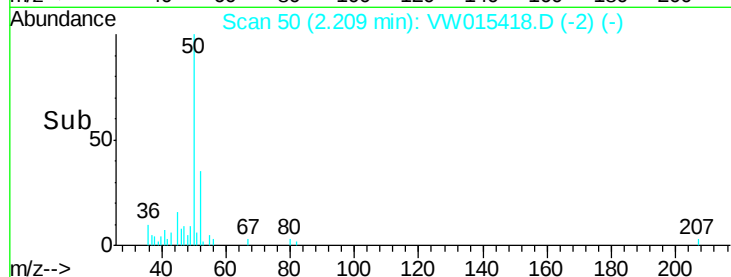
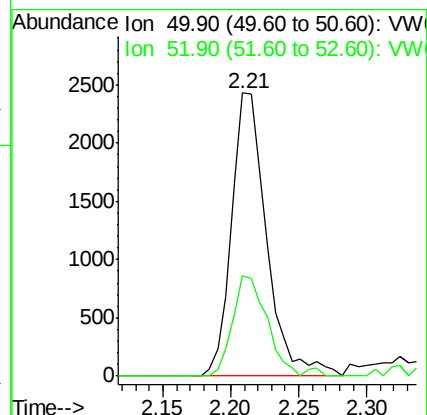
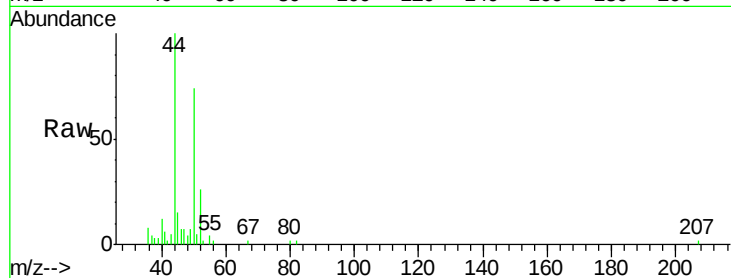
MDL-SOIL-03-QT2-2020DL

Tot Ion: 50 Resp: 4362

Ion Ratio Lower Upper

50 100

52 35.4 25.0 37.6



#4

Vinyl Chloride

Concen: 2.419 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015418.D

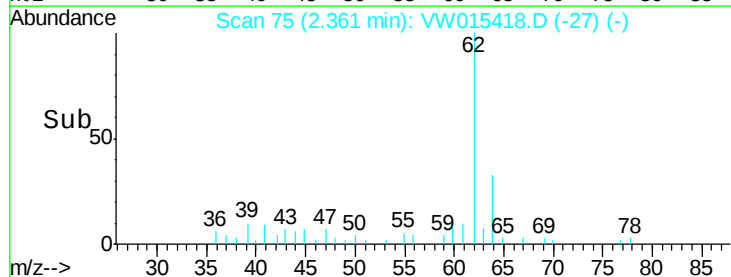
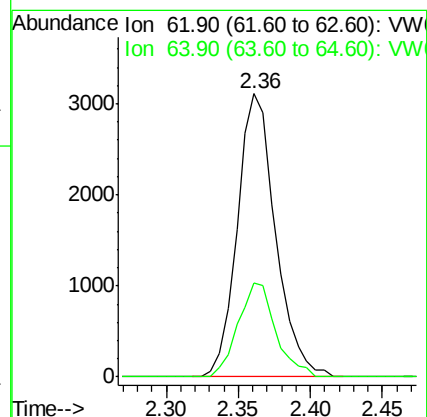
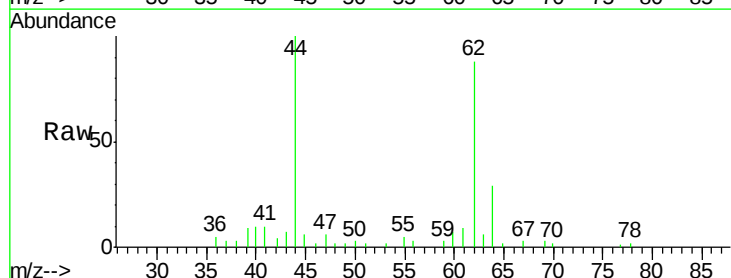
Acq: 07 May 2020 14:14

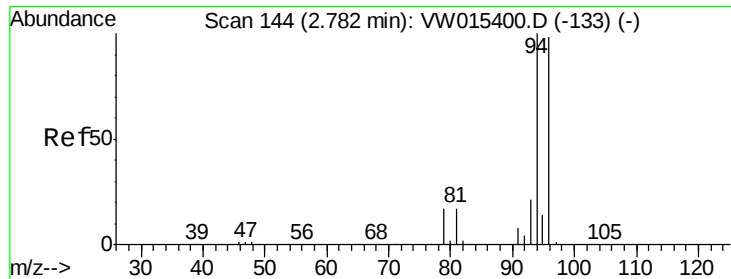
Tgt Ion: 62 Resp: 5729

Ion Ratio Lower Upper

62 100

64 33.4 26.4 39.6





#5

Bromomethane

Concen: 2.562 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

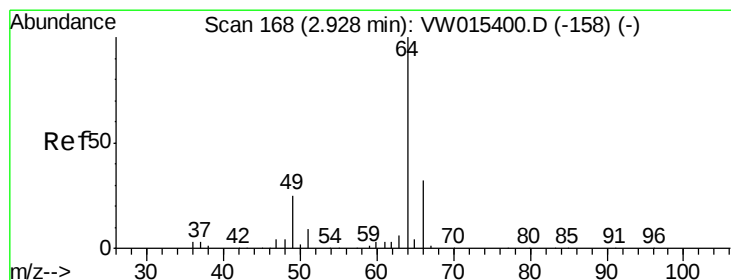
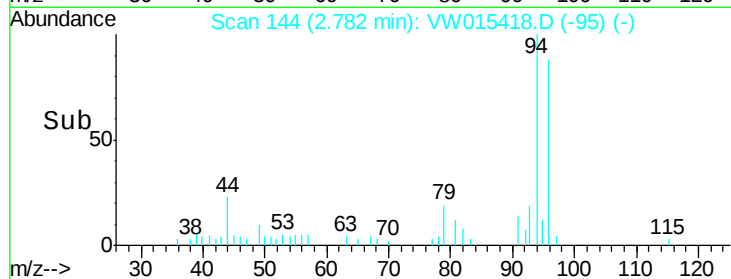
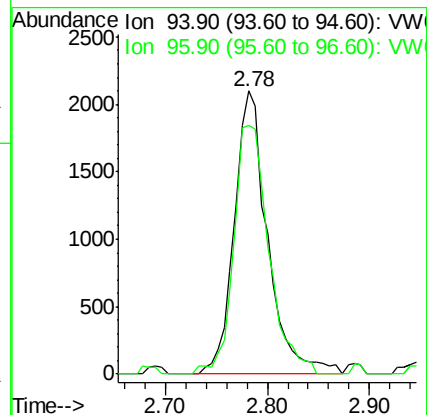
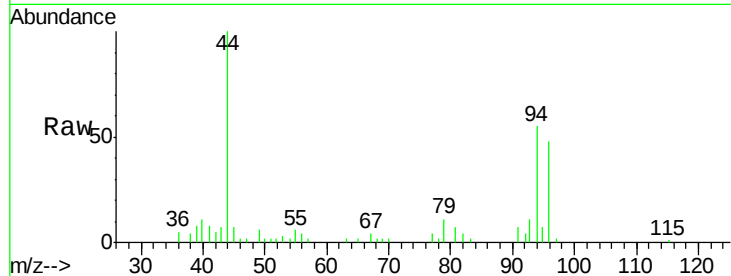
MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 4753

Ion Ratio Lower Upper

94 100

96 87.8 78.8 118.2



#6

Chloroethane

Concen: 2.402 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW015418.D

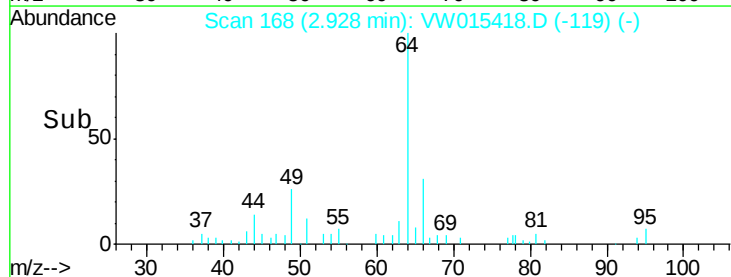
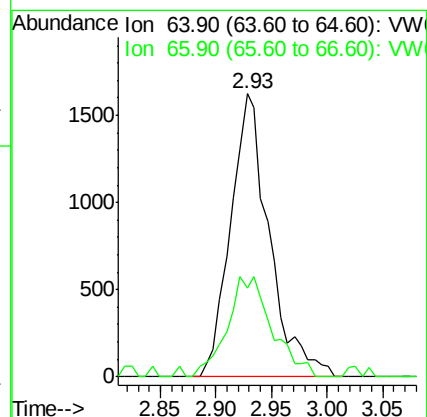
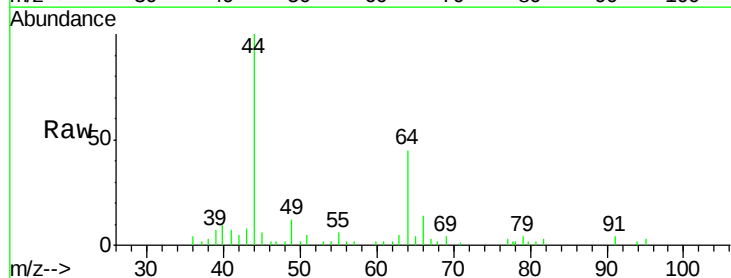
Acq: 07 May 2020 14:14

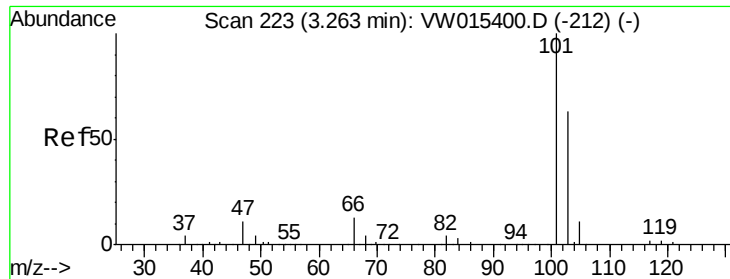
Tgt Ion: 64 Resp: 3920

Ion Ratio Lower Upper

64 100

66 31.2 25.4 38.0





#7

Trichlorofluoromethane

Concen: 2.271 ug/l

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

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MSVOA_W

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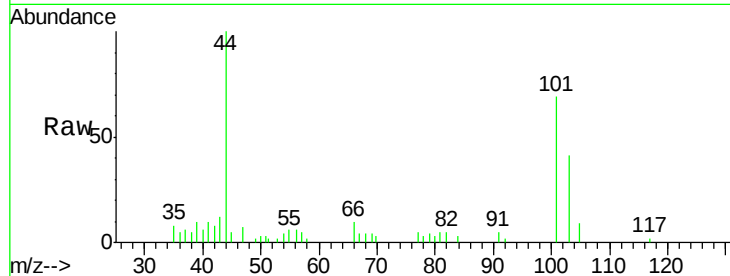
MDL-SOIL-03-QT2-2020DL

Tot Ion:101 Resp: 3945

Ion Ratio Lower Upper

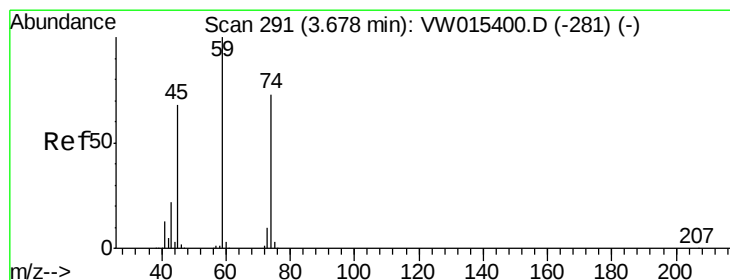
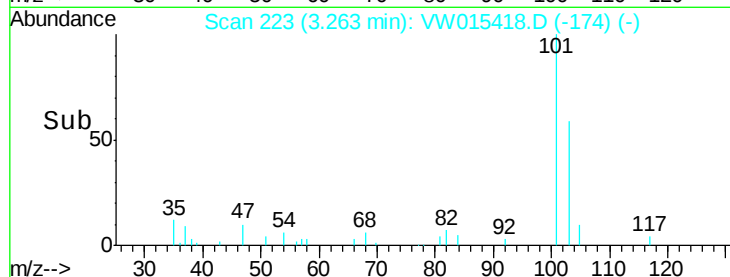
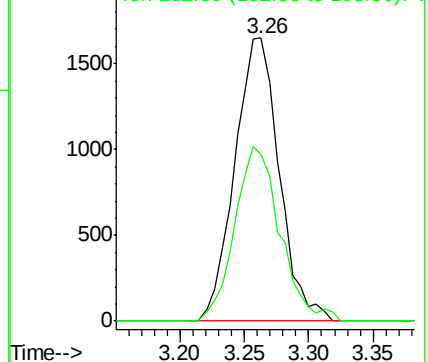
101 100

103 58.8 50.2 75.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.716 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW015418.D

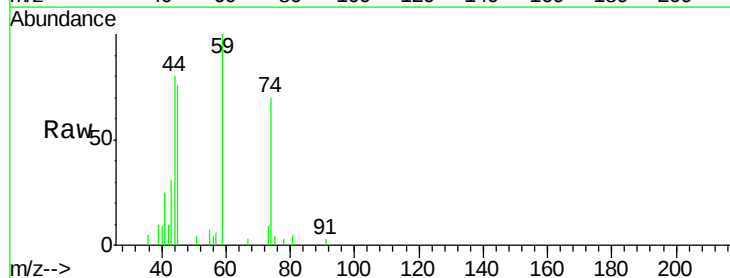
Acq: 07 May 2020 14:14

Tgt Ion: 74 Resp: 2948

Ion Ratio Lower Upper

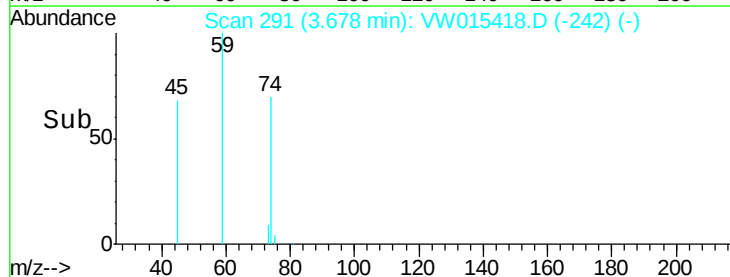
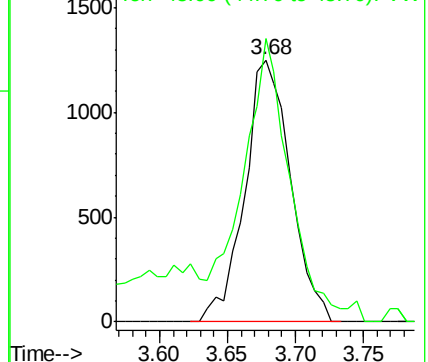
74 100

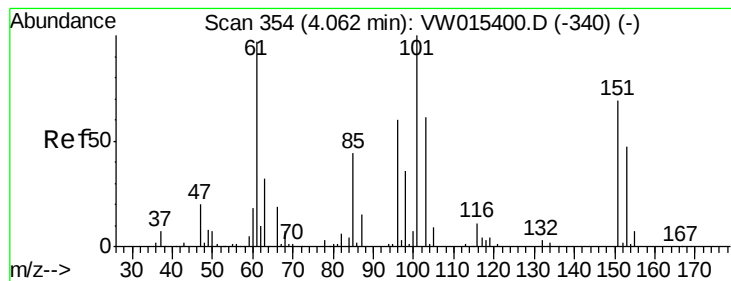
45 112.0 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.714 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

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ClientSampleId :

MDL-SOIL-03-QT2-2020DL

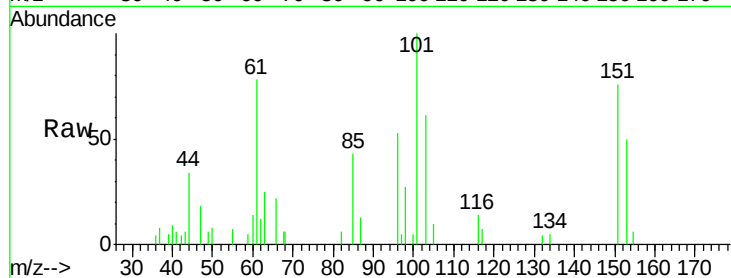
Tot Ion:101 Resp: 5464

Ion Ratio Lower Upper

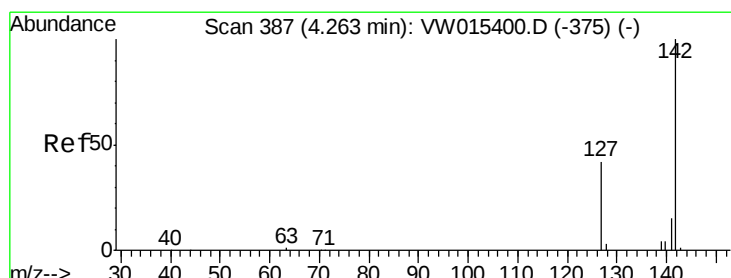
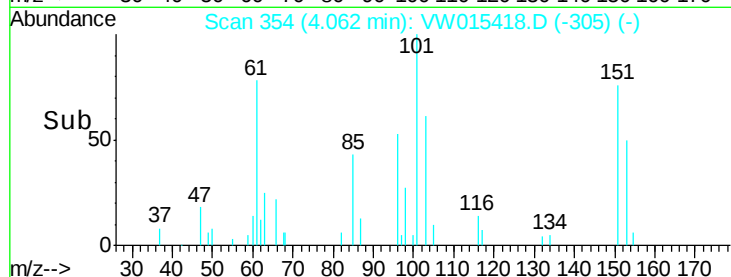
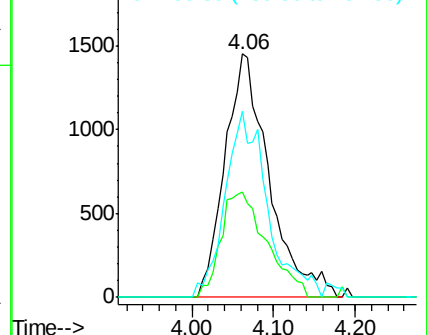
101 100

85 44.7 37.3 55.9

151 73.0 58.9 88.3



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.486 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

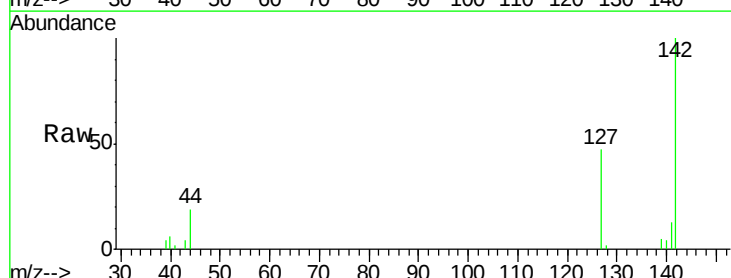
Tgt Ion:142 Resp: 7575

Ion Ratio Lower Upper

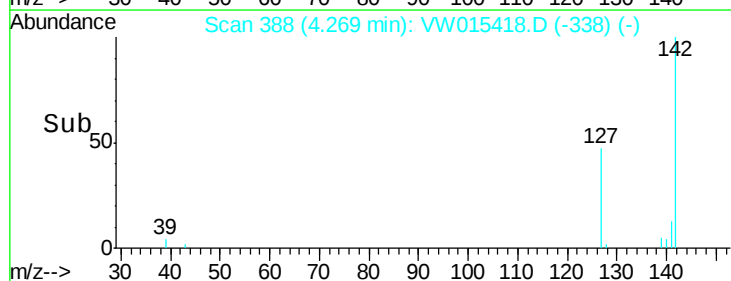
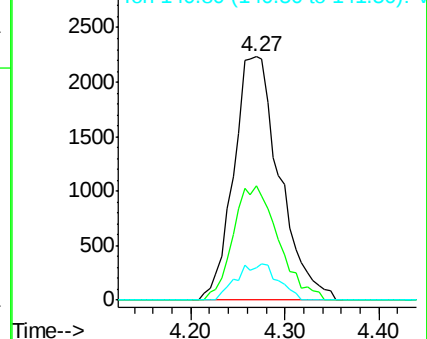
142 100

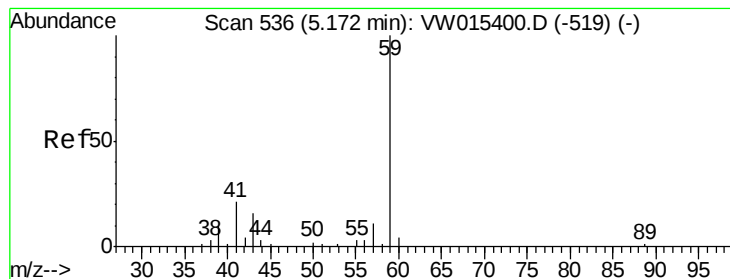
127 46.3 35.4 53.2

141 13.6 11.7 17.5



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



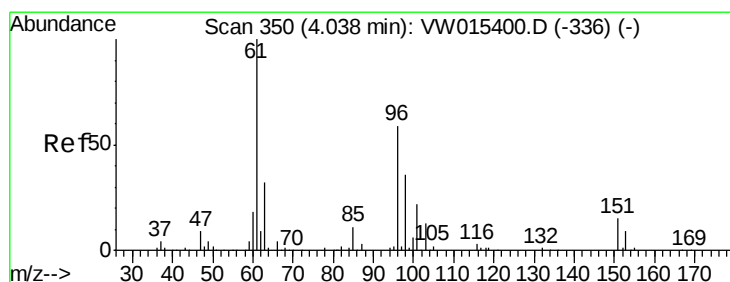
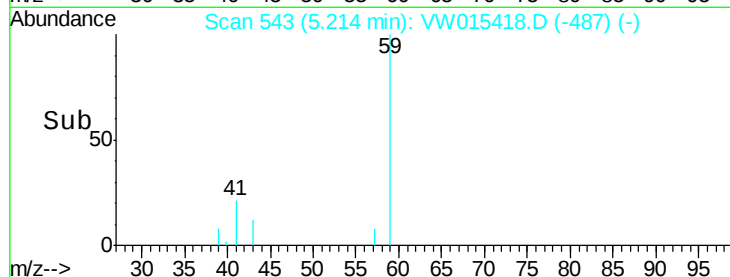
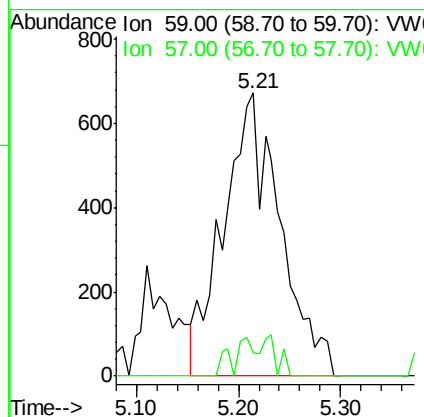
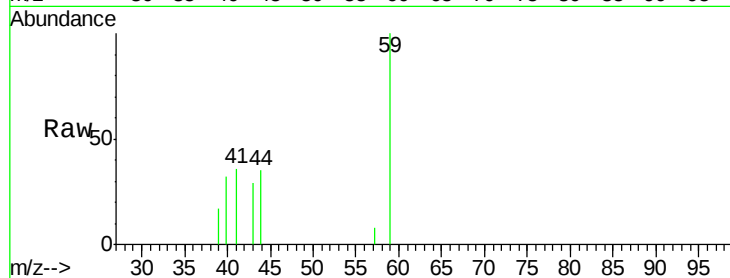


#11

Tert butyl alcohol
 Concen: 18.825 ug/l
 RT: 5.21 min Scan# 543
 Delta R.T. 0.04 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

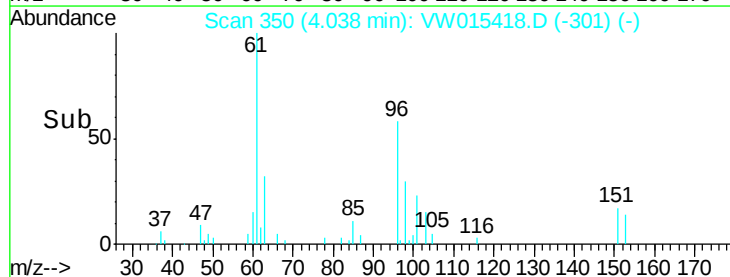
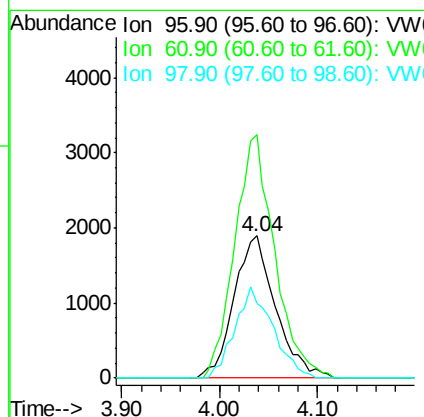
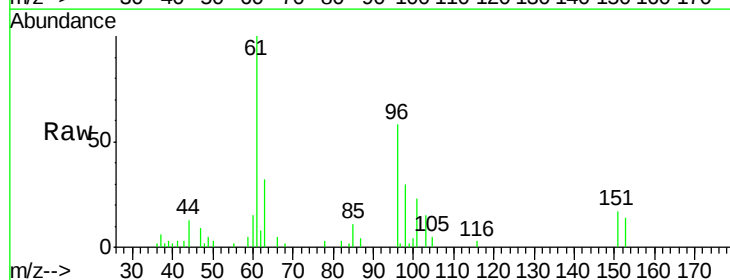
Tot Ion: 59 Resp: 2578
 Ion Ratio Lower Upper
 59 100
 57 4.0 8.6 13.0#

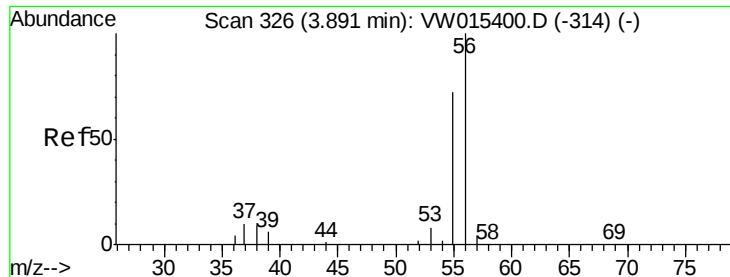


#12

1,1-Dichloroethene
 Concen: 2.679 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion: 96 Resp: 5595
 Ion Ratio Lower Upper
 96 100
 61 171.2 135.8 203.8
 98 52.1 48.6 72.8





#13

Acrolein

Concen: 12.654 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

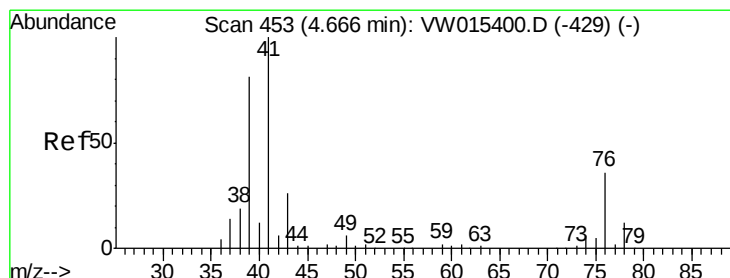
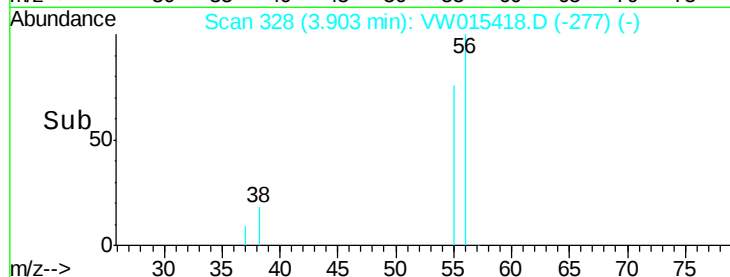
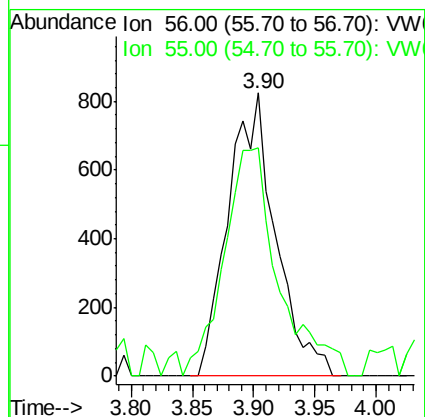
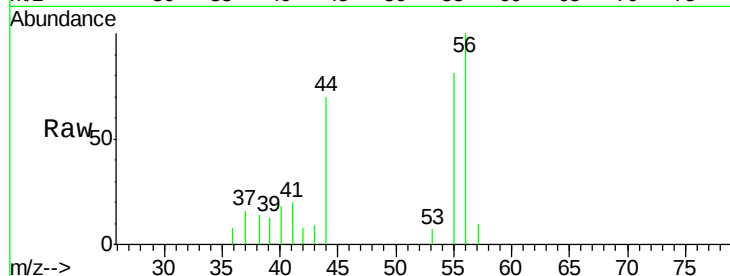
MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 2213

Ion Ratio Lower Upper

56 100

55 92.6 56.4 84.6#



#14

Allyl chloride

Concen: 2.499 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

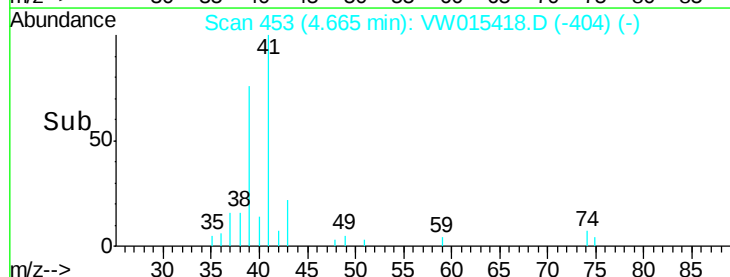
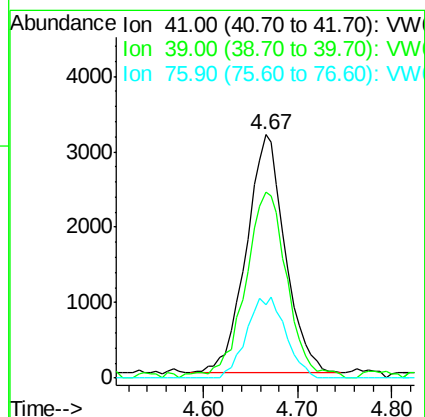
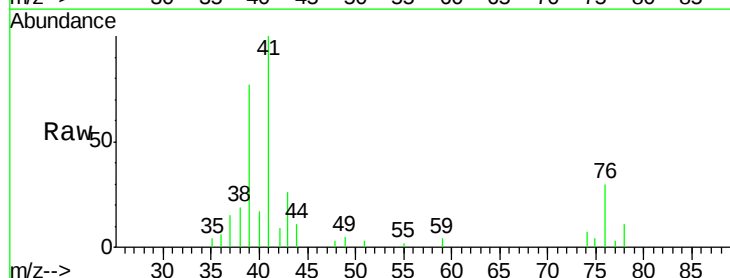
Tgt Ion: 41 Resp: 9142

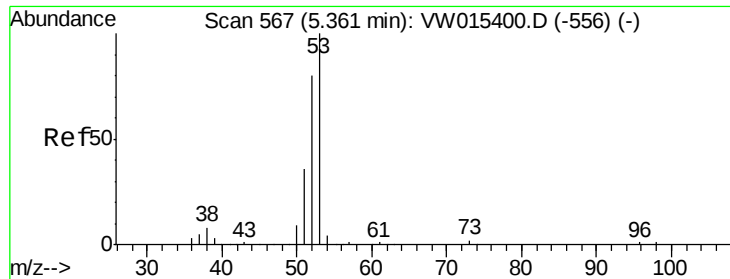
Ion Ratio Lower Upper

41 100

39 84.1 63.6 95.4

76 34.0 28.4 42.6





#15

Acrylonitrile

Concen: 13.698 ug/l

RT: 5.38 min Scan# 570

Delta R.T. 0.02 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

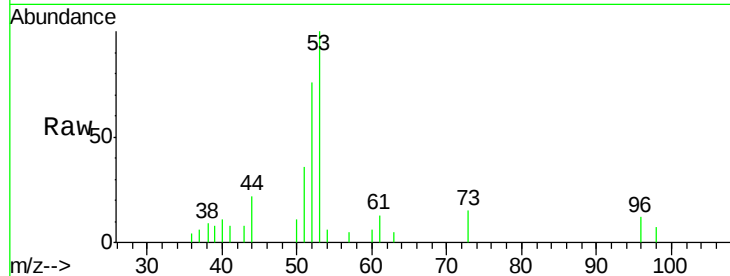
Tot Ion: 53 Resp: 6051

Ion Ratio Lower Upper

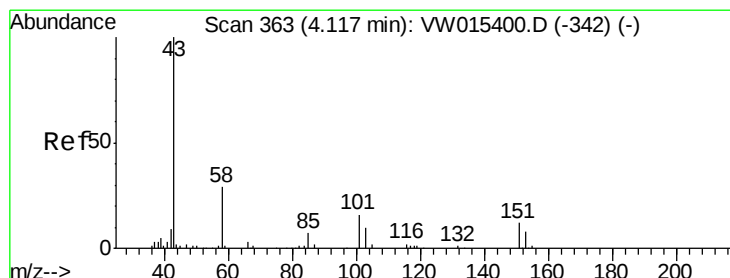
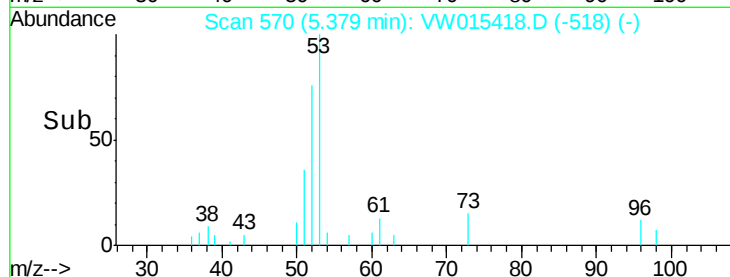
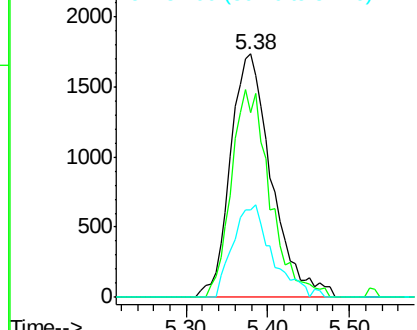
53 100

52 80.2 66.6 99.8

51 35.6 30.2 45.2



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: 17.706 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW015418.D

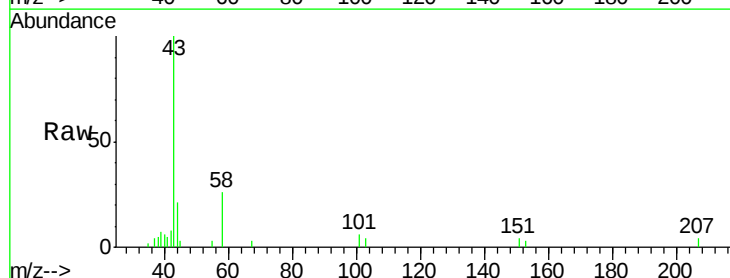
Acq: 07 May 2020 14:14

Tgt Ion: 43 Resp: 6532

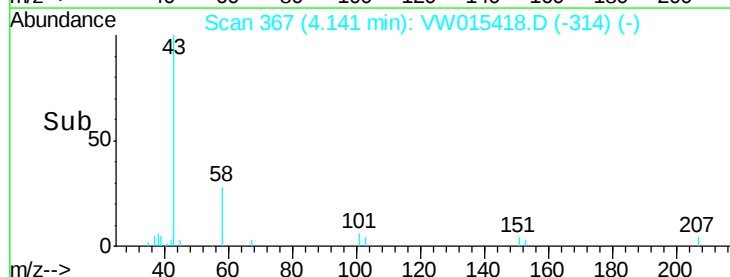
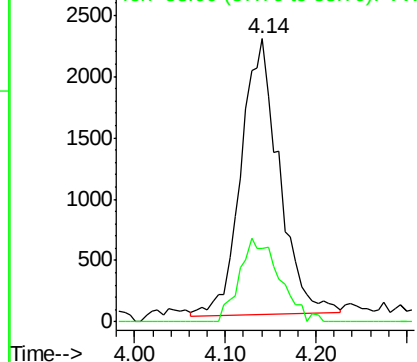
Ion Ratio Lower Upper

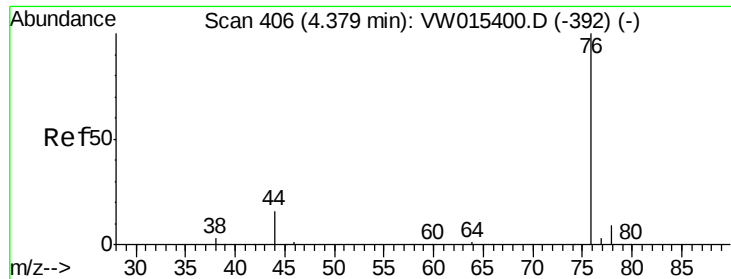
43 100

58 27.1 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

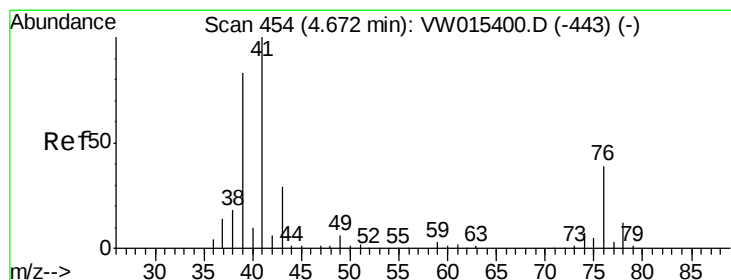
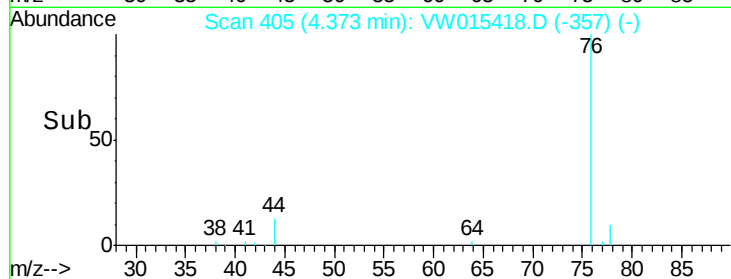
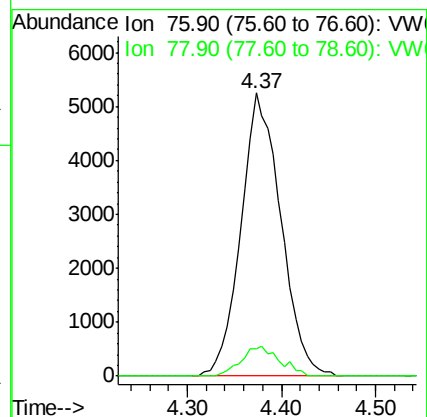
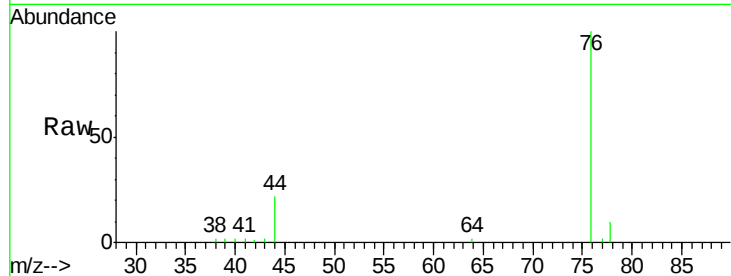




#17
Carbon Disulfide
Concen: 2.426 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

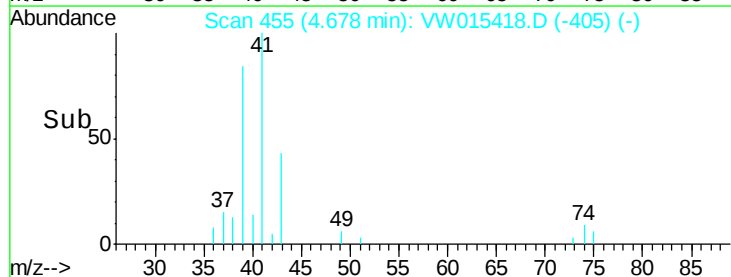
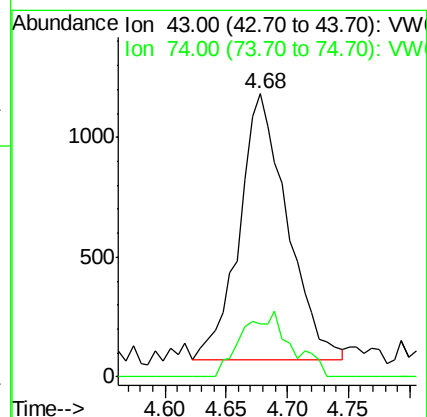
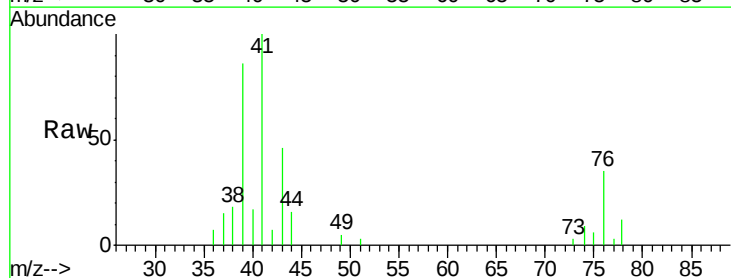
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

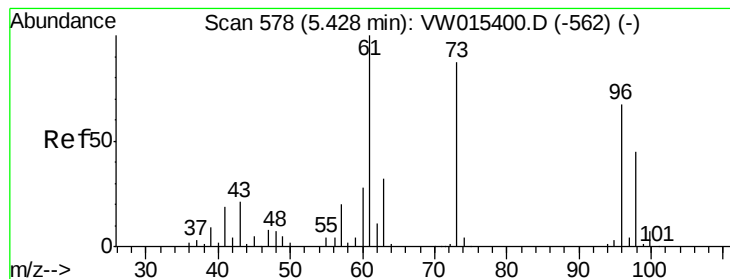
Tot Ion: 76 Resp: 15533
Ion Ratio Lower Upper
76 100
78 9.5 7.3 10.9



#18
Methyl Acetate
Concen: 3.094 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion: 43 Resp: 3030
Ion Ratio Lower Upper
43 100
74 25.4 18.7 28.1



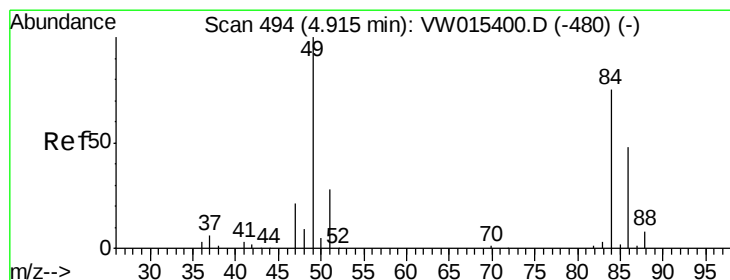
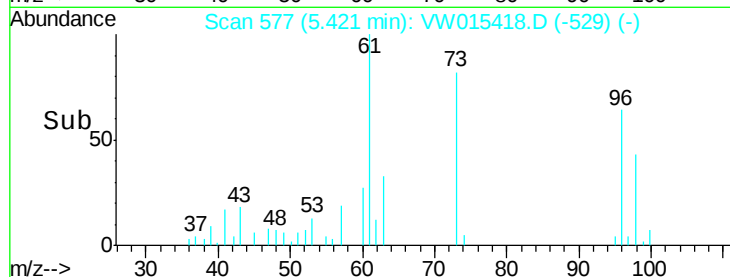
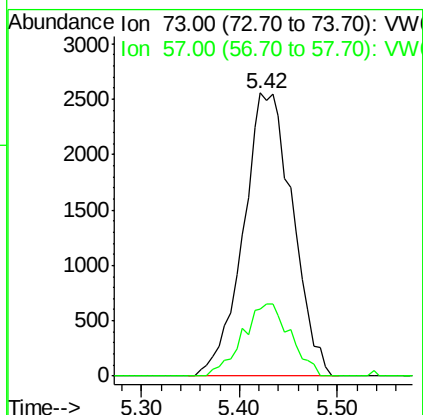
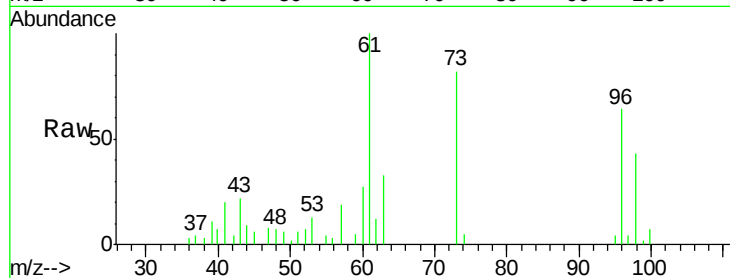


#19

Methyl tert-butyl Ether
 Concen: 2.670 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

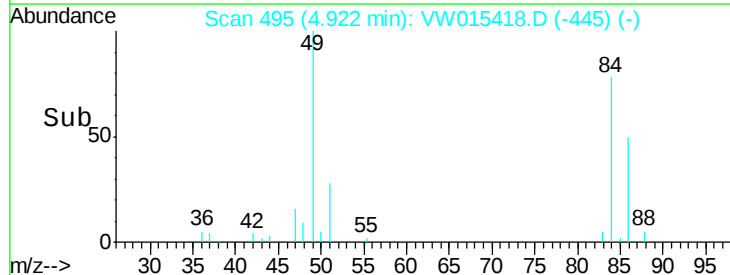
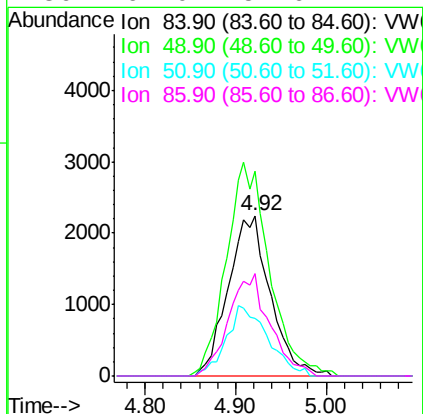
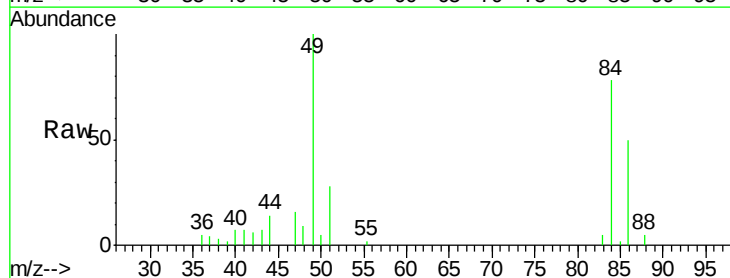
Tot Ion: 73 Resp: 8959
 Ion Ratio Lower Upper
 73 100
 57 23.7 18.5 27.7

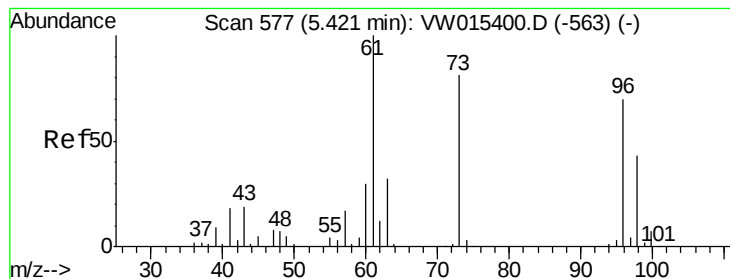


#20

Methylene Chloride
 Concen: 3.010 ug/l
 RT: 4.92 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion: 84 Resp: 7246
 Ion Ratio Lower Upper
 84 100
 49 127.5 106.4 159.6
 51 36.1 30.2 45.2
 86 64.0 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 2.647 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

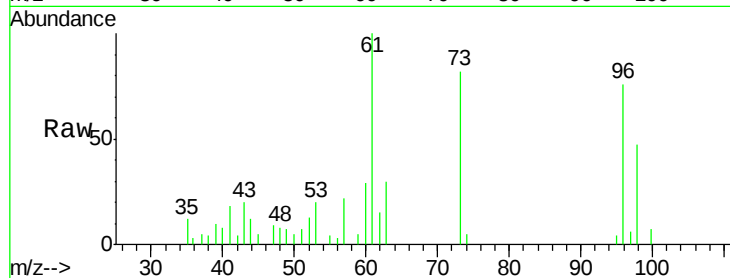
Tot Ion: 96 Resp: 6275

Ion Ratio Lower Upper

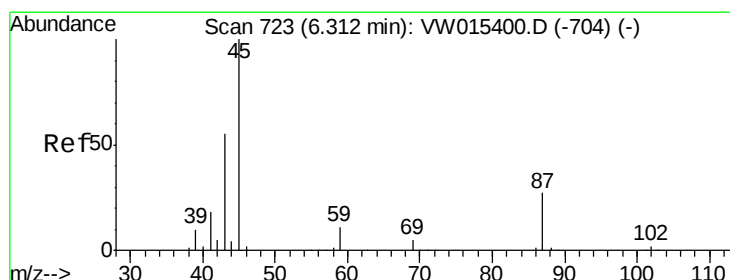
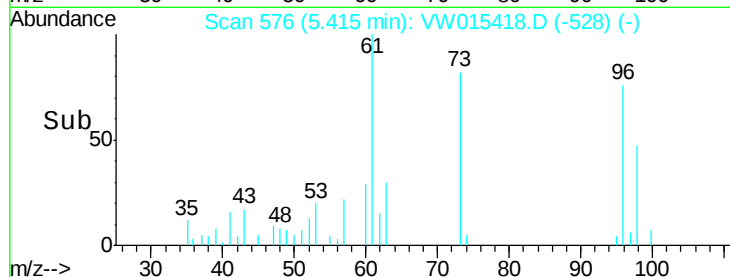
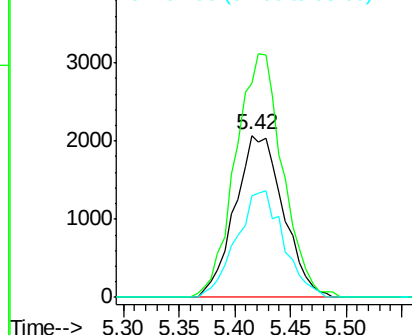
96 100

61 132.1 114.9 172.3

98 62.6 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: 2.550 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Tgt Ion: 45 Resp: 18234

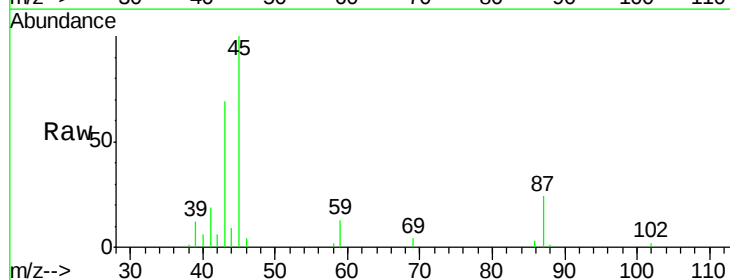
Ion Ratio Lower Upper

45 100

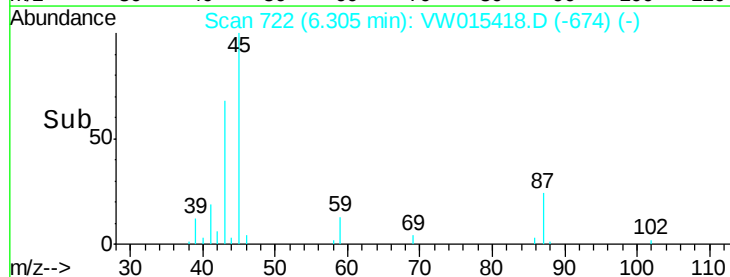
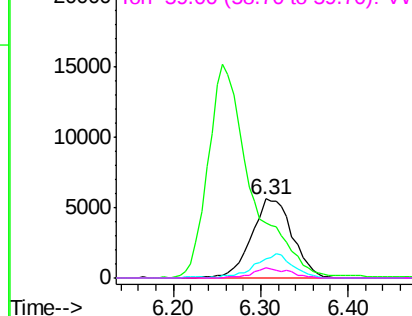
43 66.2 44.2 66.4

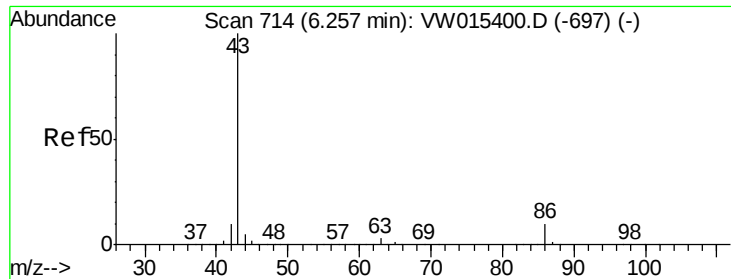
87 23.7 21.6 32.4

59 12.6 9.0 13.6



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

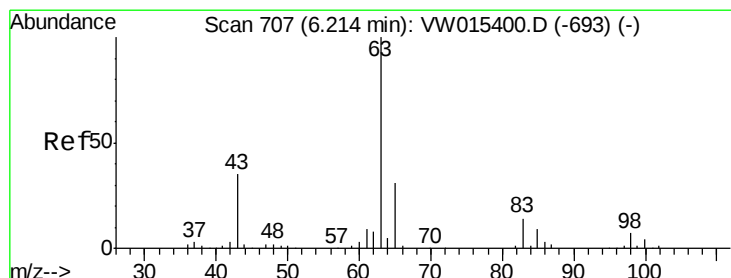
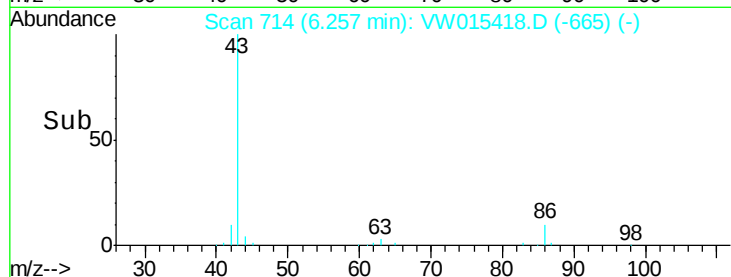
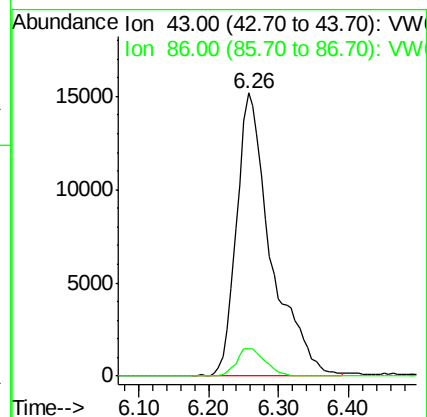
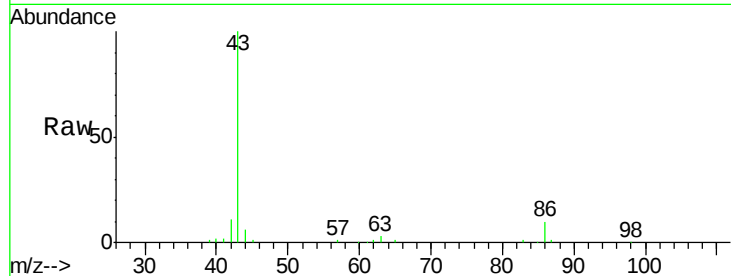




#23
 Vinyl Acetate
 Concen: 11.983 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

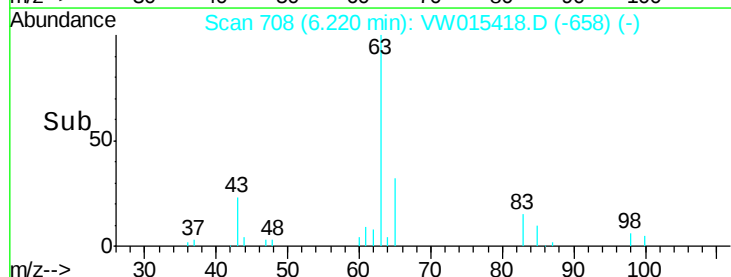
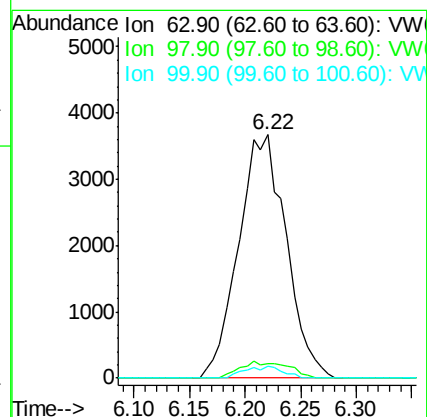
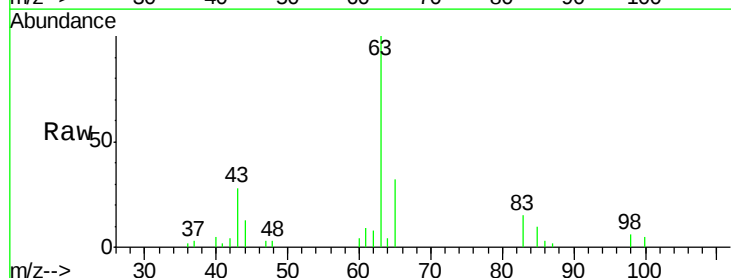
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

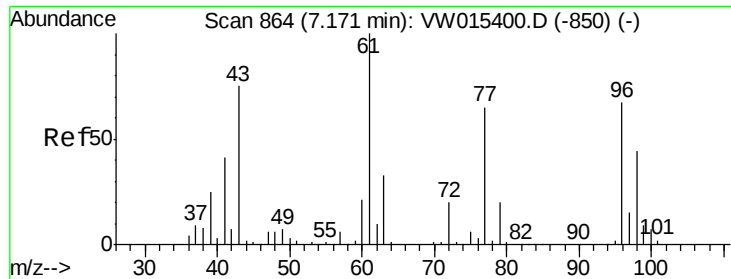
Tot Ion: 43 Resp: 52079
 Ion Ratio Lower Upper
 43 100
 86 9.5 8.1 12.1



#24
 1,1-Dichloroethane
 Concen: 2.547 ug/l
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion: 63 Resp: 10915
 Ion Ratio Lower Upper
 63 100
 98 6.2 3.5 10.4
 100 4.8 2.1 6.5





#25

2-Butanone

Concen: 14.889 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

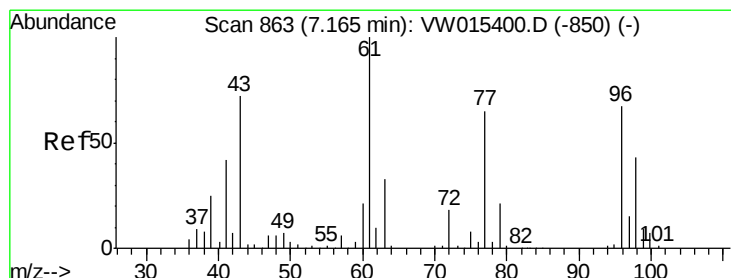
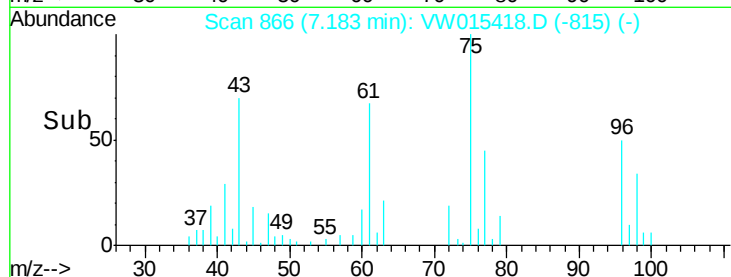
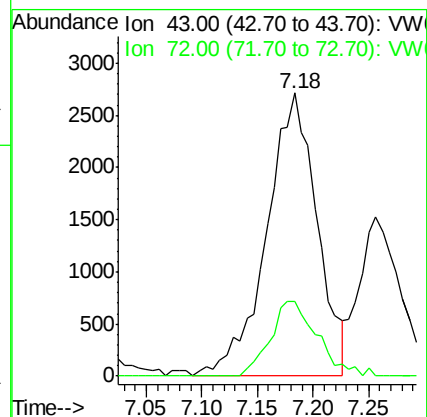
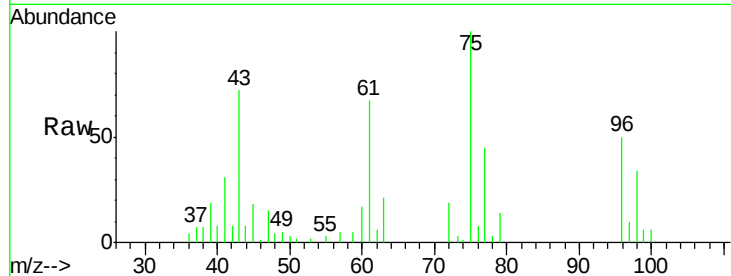
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 8562

Ion Ratio Lower Upper

43 100

72 26.5 21.4 32.0



#26

2,2-Dichloropropane

Concen: 3.136 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015418.D

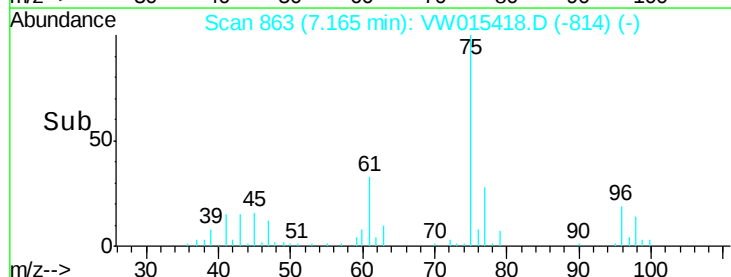
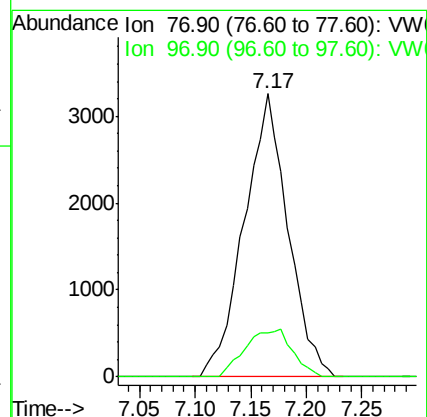
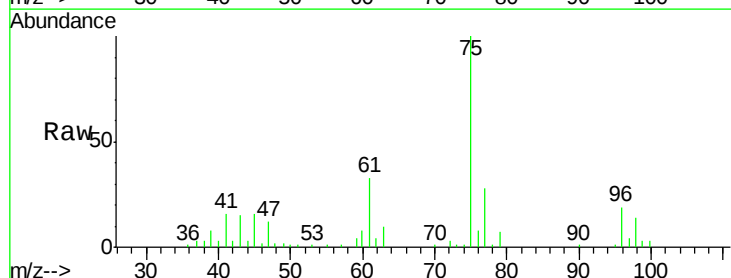
Acq: 07 May 2020 14:14

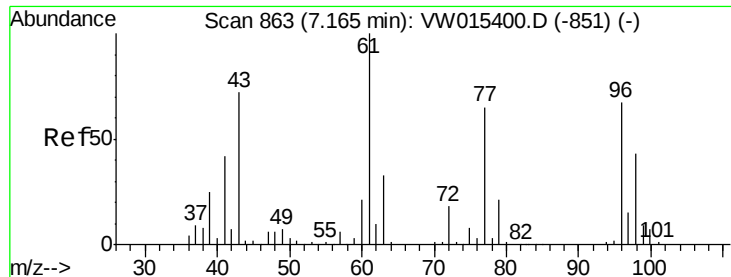
Tgt Ion: 77 Resp: 8909

Ion Ratio Lower Upper

77 100

97 18.1 11.1 33.1





#27

cis-1,2-Dichloroethene

Concen: 2.576 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

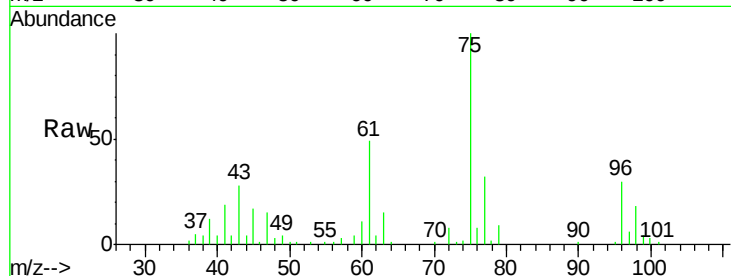
Tot Ion: 96 Resp: 6629

Ion Ratio Lower Upper

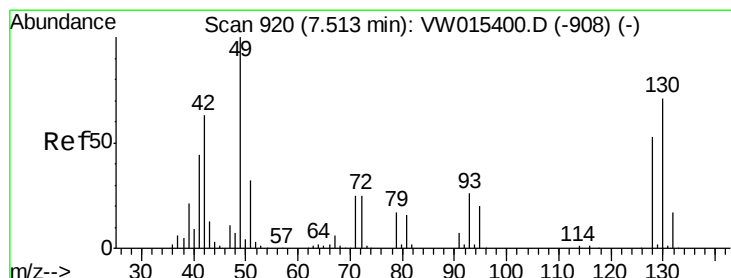
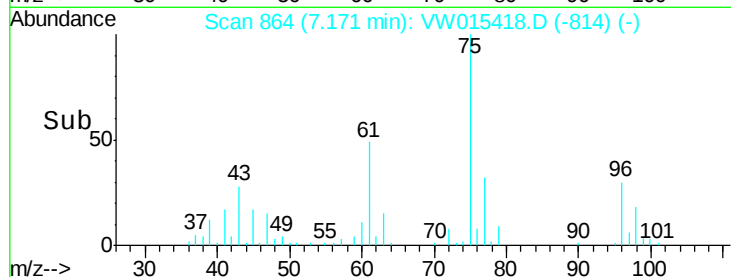
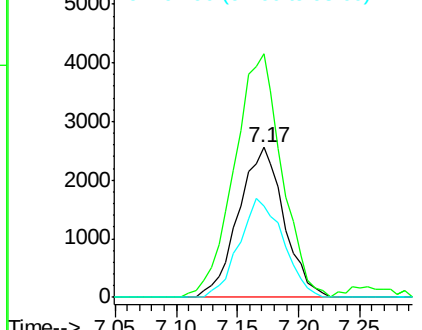
96 100

61 168.9 0.0 304.6

98 63.4 0.0 129.2



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: 2.542 ug/l

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

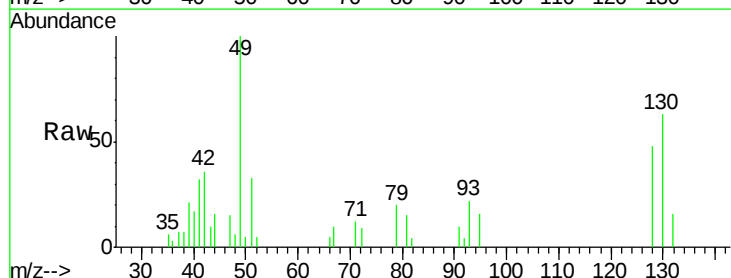
Tgt Ion: 49 Resp: 4380

Ion Ratio Lower Upper

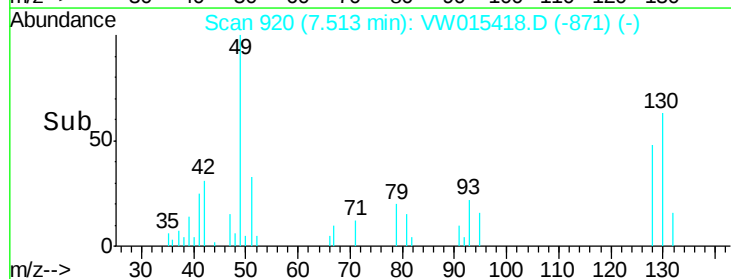
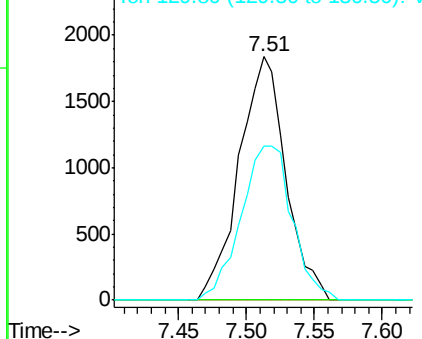
49 100

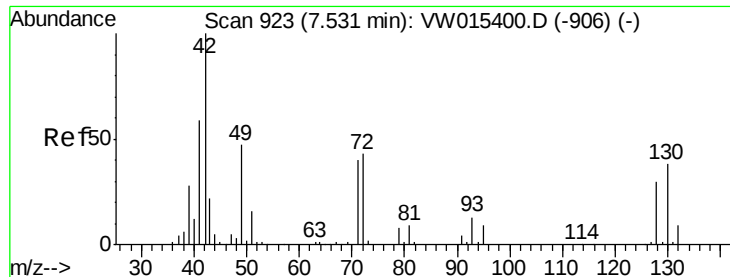
129 0.0 0.0 3.0

130 69.6 57.0 85.4



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

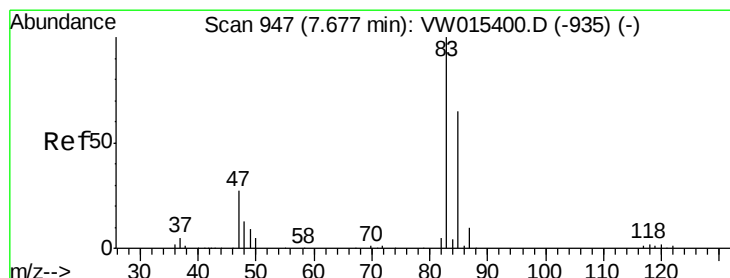
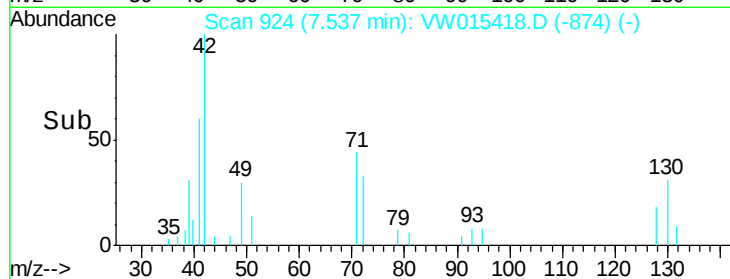
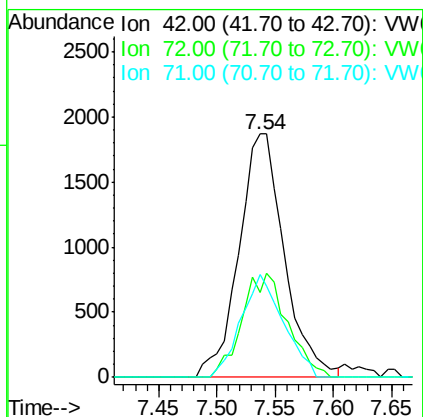
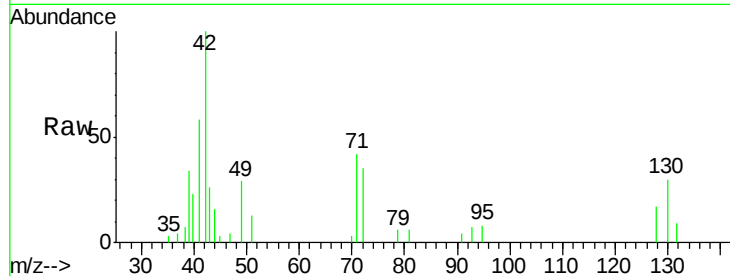




#29
Tetrahydrofuran
Concen: 13.445 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

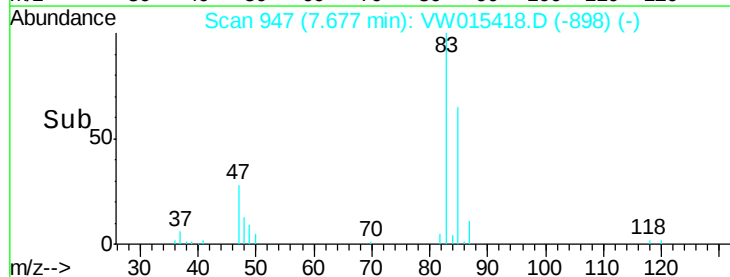
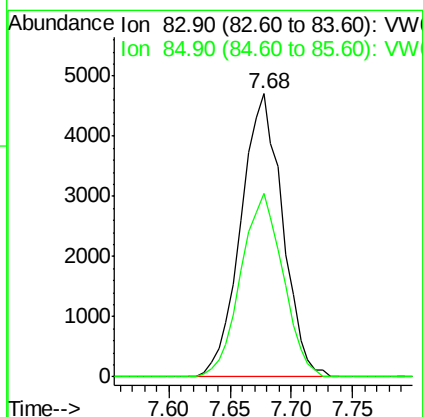
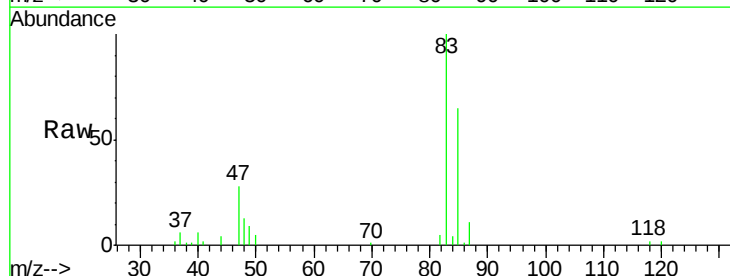
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

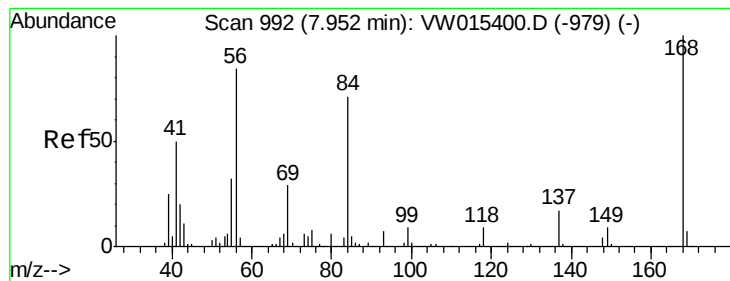
Tot Ion: 42 Resp: 5088
Ion Ratio Lower Upper
42 100
72 42.5 33.6 50.4
71 39.1 32.1 48.1



#30
Chloroform
Concen: 2.619 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion: 83 Resp: 11154
Ion Ratio Lower Upper
83 100
85 65.0 51.8 77.6





#31

Cyclohexane

Concen: 3.674 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

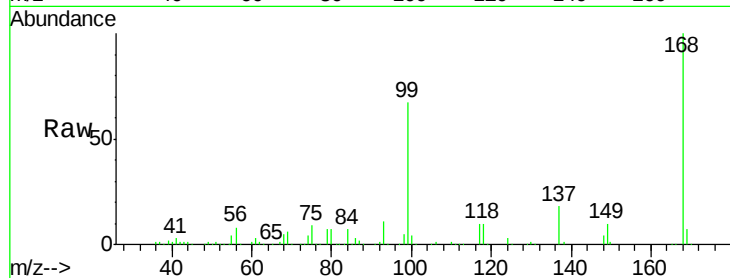
Tot Ion: 56 Resp: 15988

Ion Ratio Lower Upper

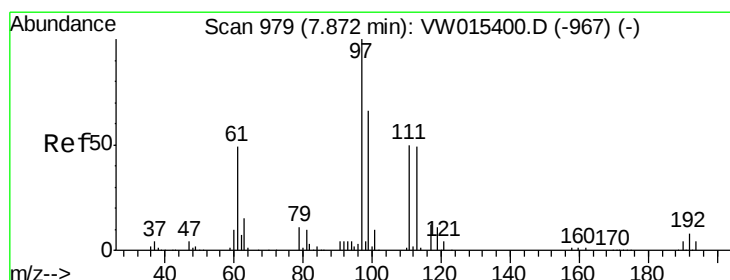
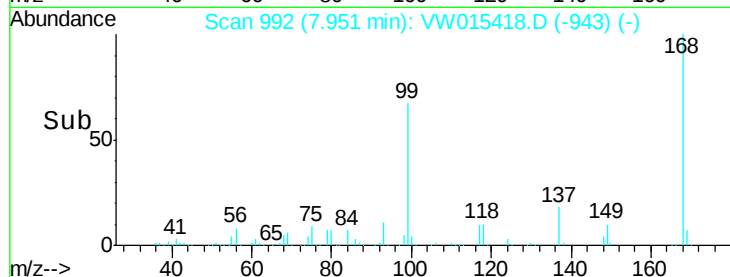
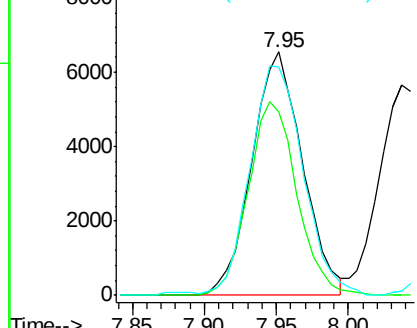
56 100

69 75.2 27.2 40.8#

84 92.4 67.7 101.5



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: 2.584 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

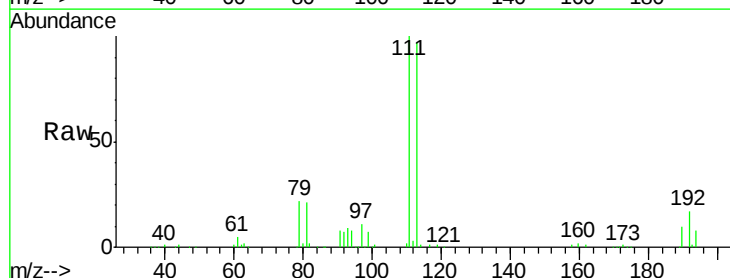
Tgt Ion: 97 Resp: 9247

Ion Ratio Lower Upper

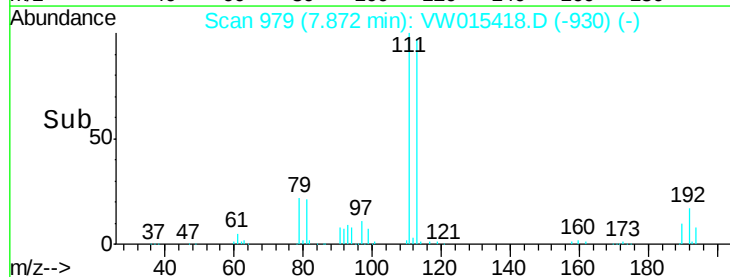
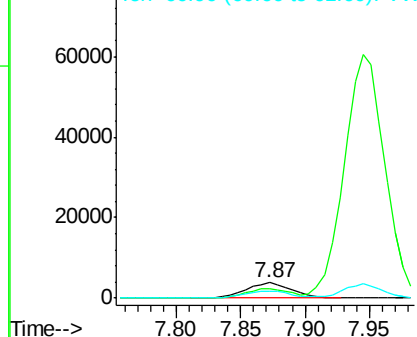
97 100

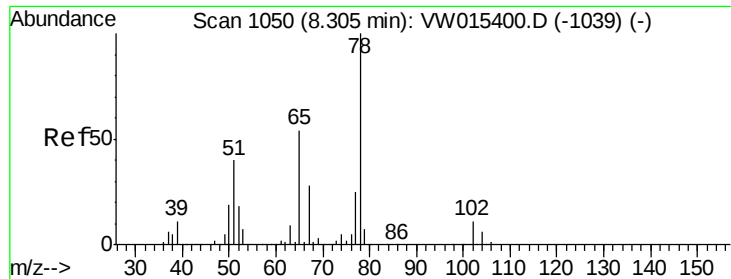
99 61.4 50.7 76.1

61 48.3 38.0 57.0



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

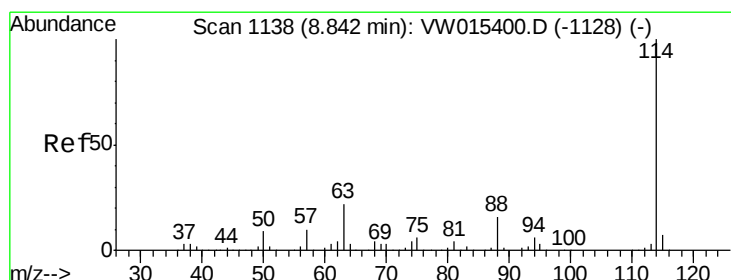
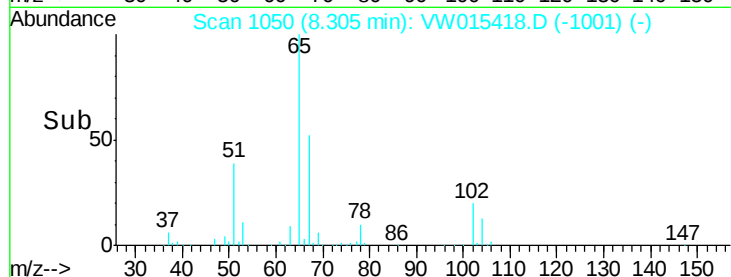
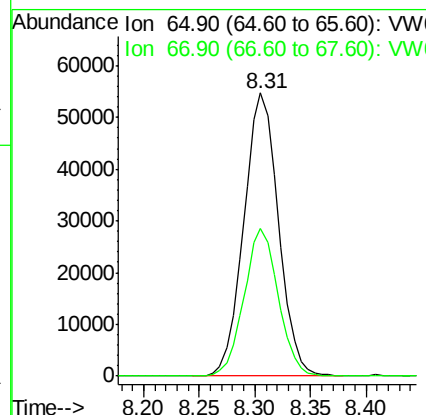
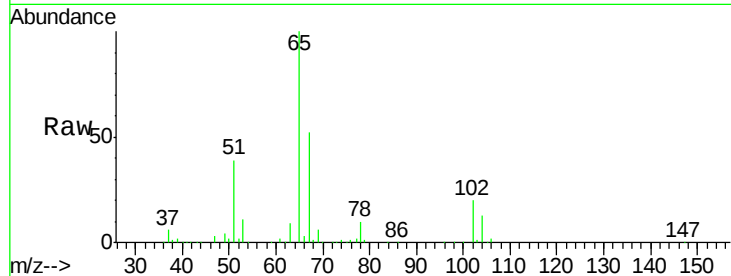




#33
 1,2-Dichloroethane-d4
 Concen: 49.885 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

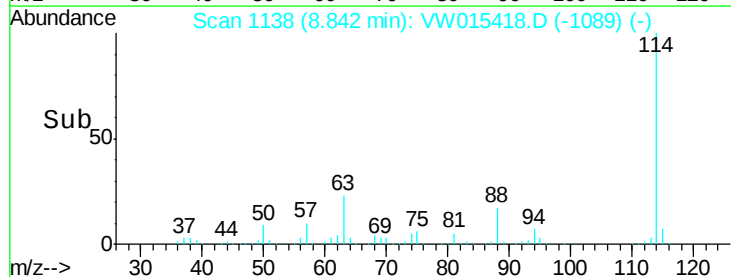
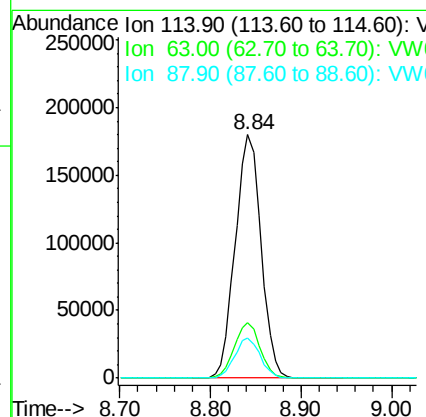
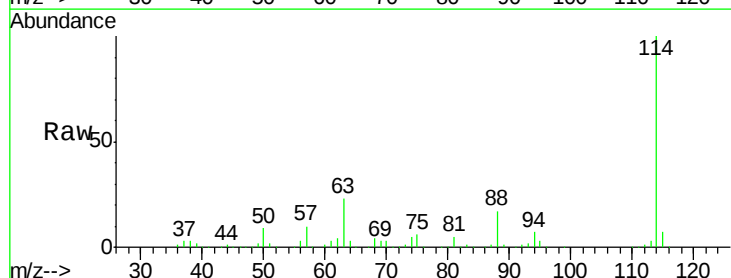
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

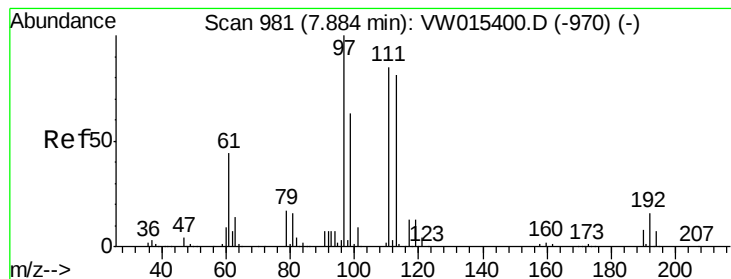
Tot Ion: 65 Resp: 118467
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion: 114 Resp: 356152
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.4
 88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.453 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

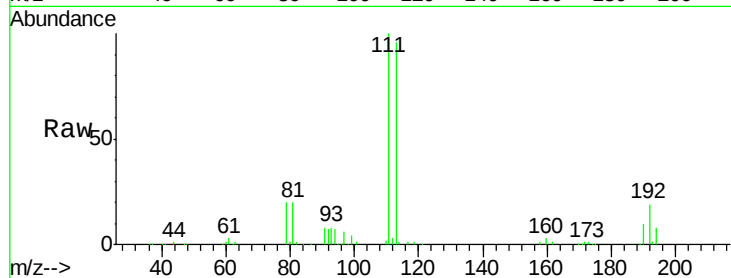
Tot Ion:113 Resp: 103134

Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

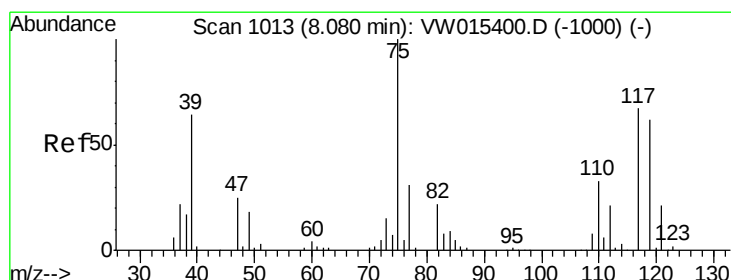
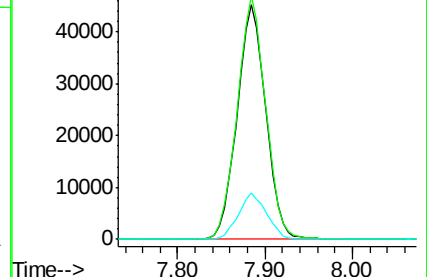
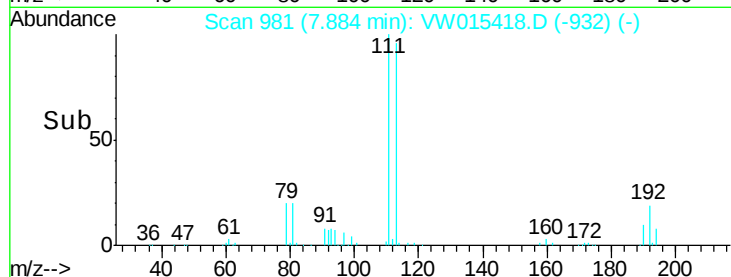
192 19.3 15.4 23.0



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: 2.688 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

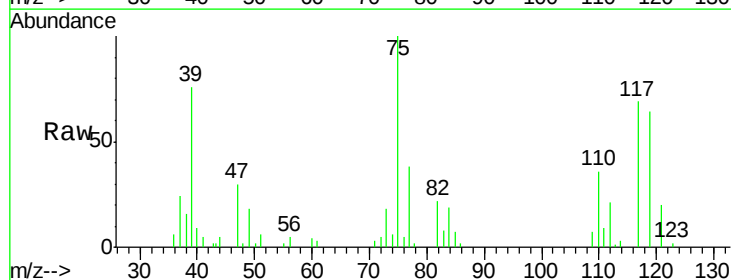
Tgt Ion: 75 Resp: 9404

Ion Ratio Lower Upper

75 100

110 32.3 16.6 49.8

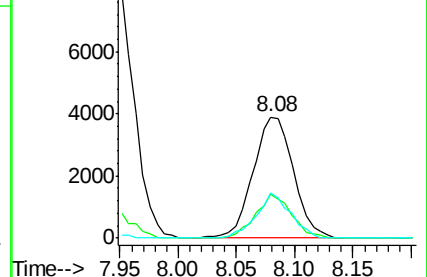
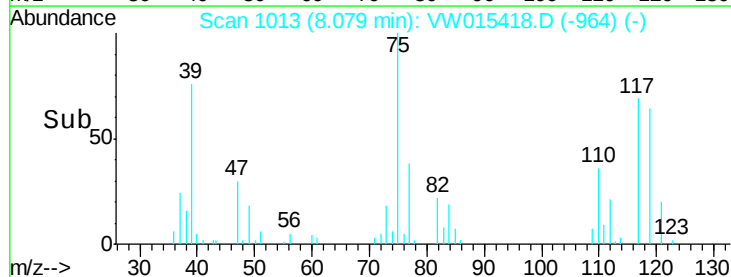
77 31.7 24.5 36.7

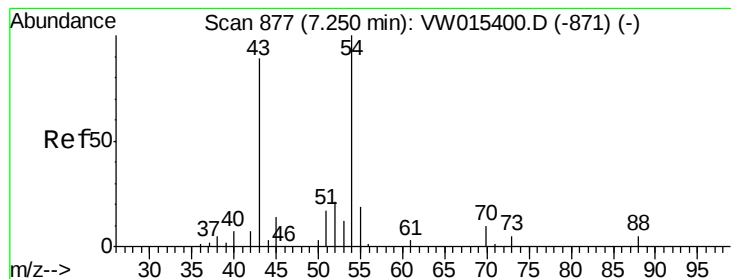


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 2.710 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

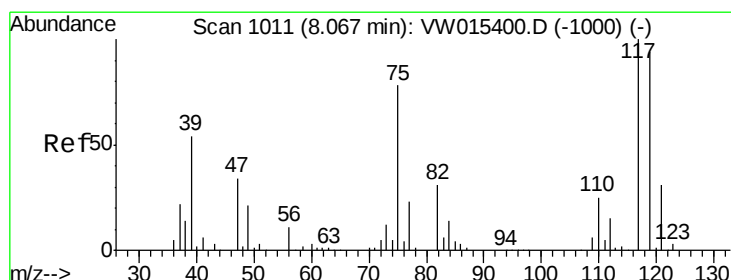
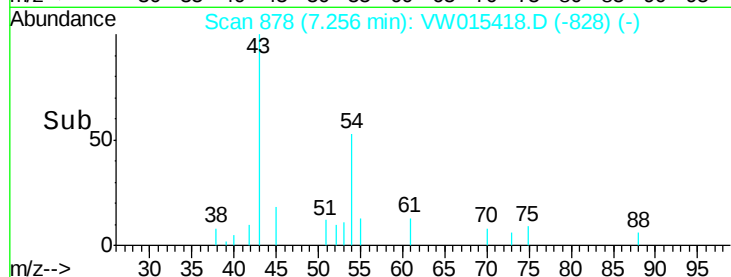
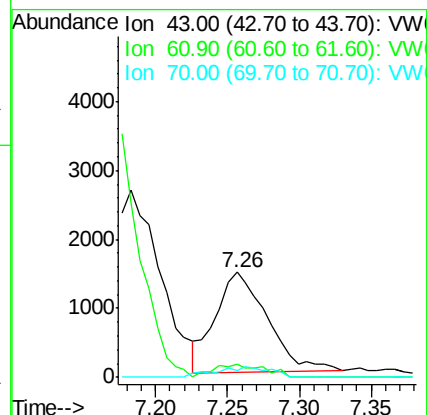
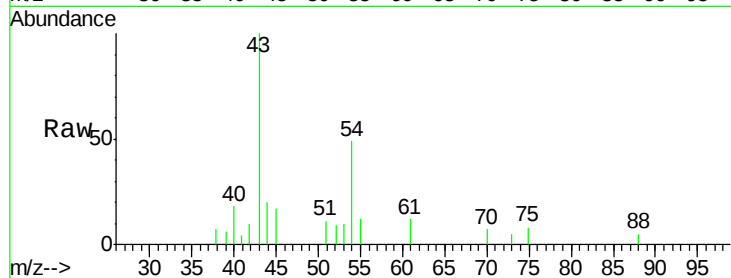
Tot Ion: 43 Resp: 3680

Ion Ratio Lower Upper

43 100

61 12.6 10.2 15.2

70 11.0 8.0 12.0



#38

Carbon Tetrachloride

Concen: 2.579 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

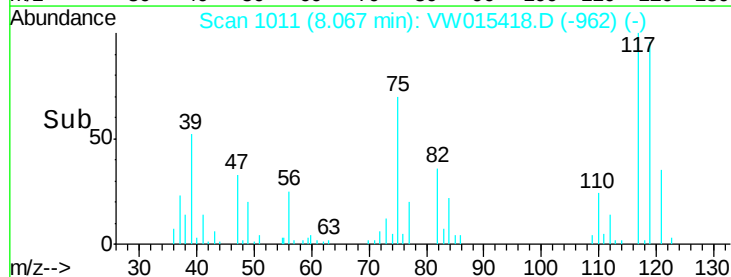
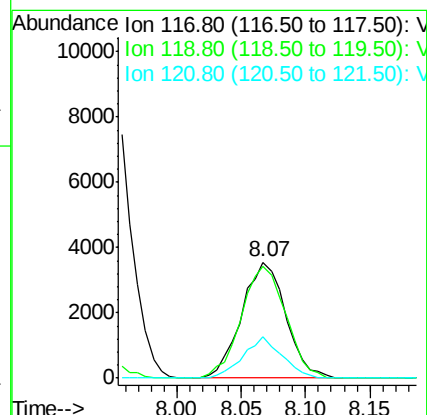
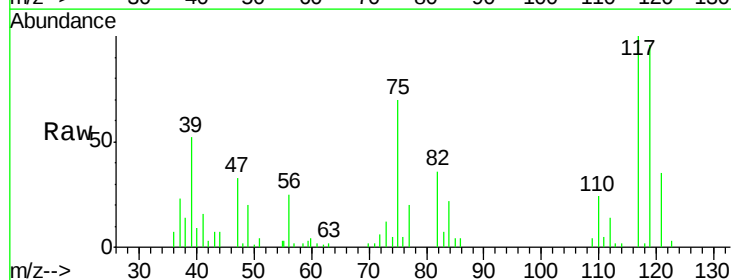
Tgt Ion: 117 Resp: 8437

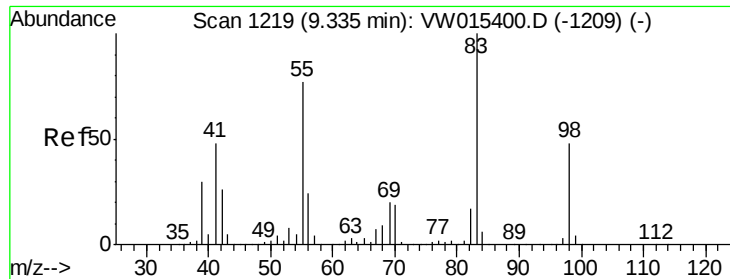
Ion Ratio Lower Upper

117 100

119 96.4 75.4 113.0

121 35.4 24.8 37.2

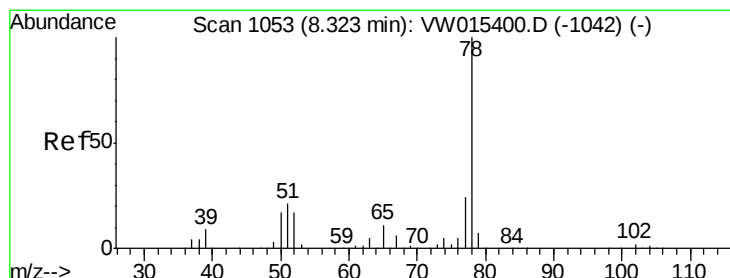
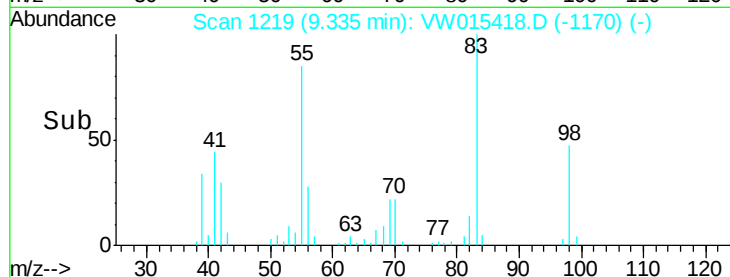
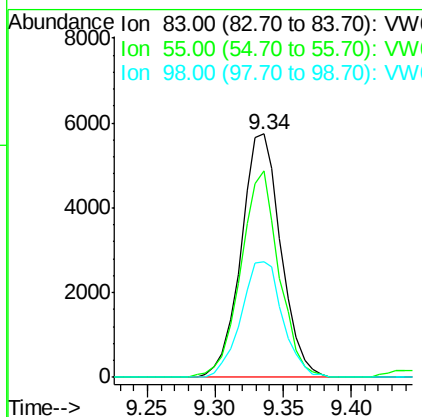
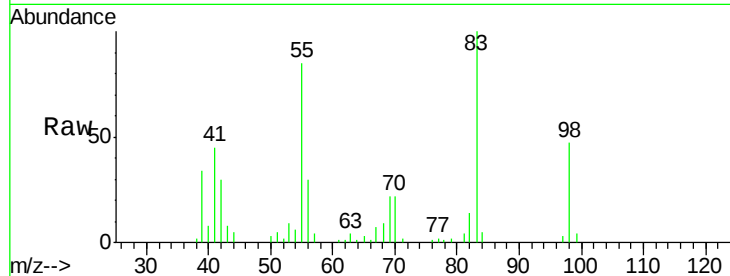




#39
Methvlcvclohexane
Concen: 2.653 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

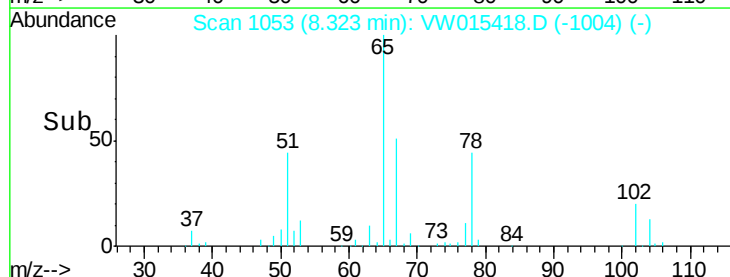
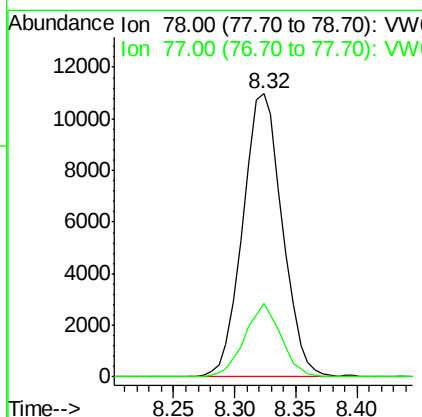
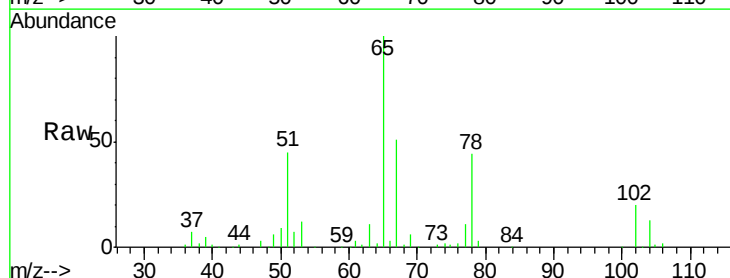
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

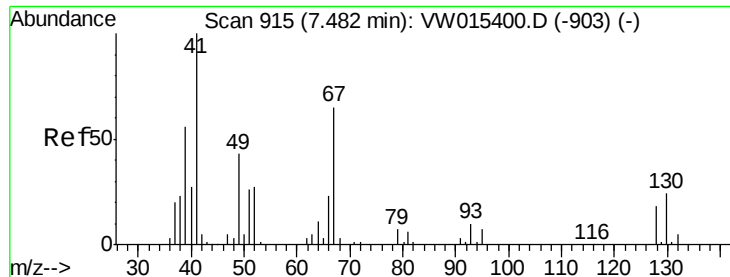
Tot Ion: 83 Resp: 11751
Ion Ratio Lower Upper
83 100
55 84.7 61.9 92.9
98 47.4 38.2 57.2



#40
Benzene
Concen: 2.587 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion: 78 Resp: 24686
Ion Ratio Lower Upper
78 100
77 25.9 19.0 28.4

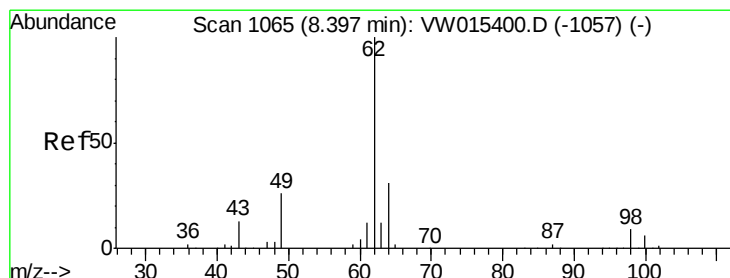
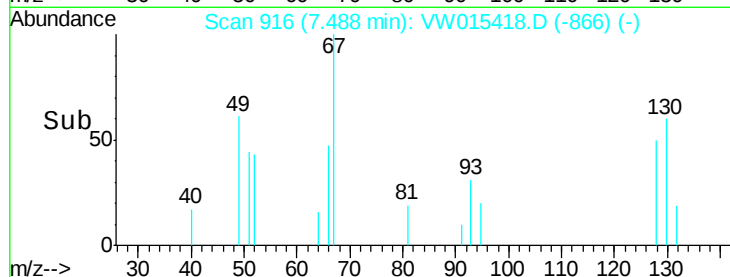
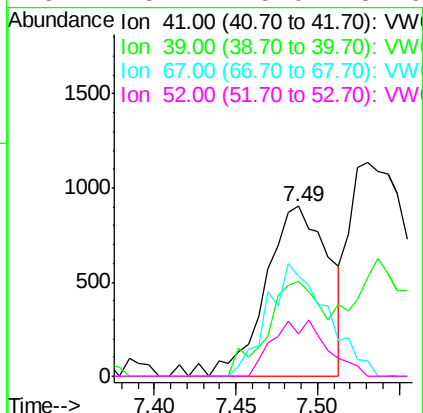
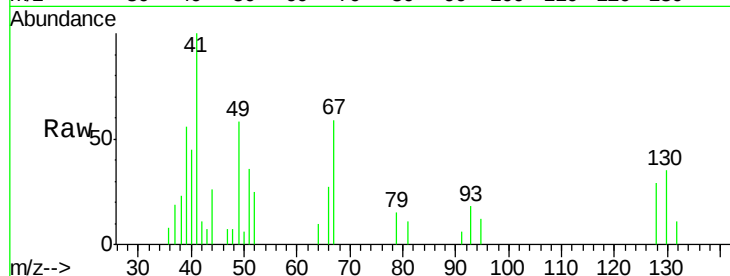




#41
Methacrylonitrile
Concen: 2.830 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

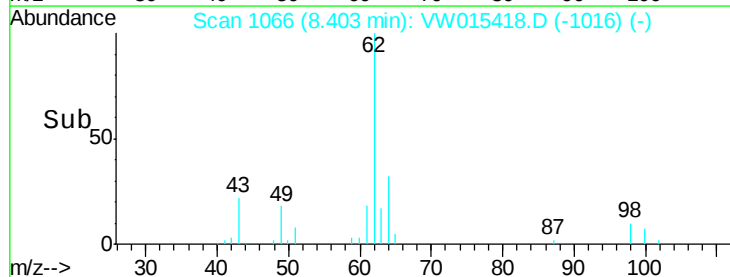
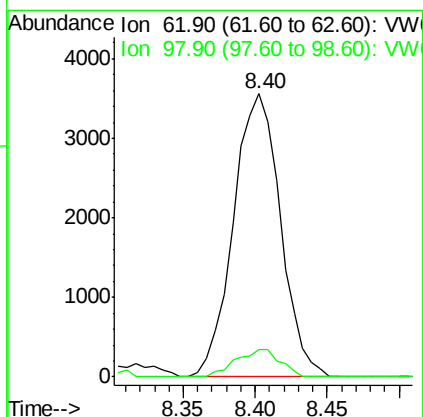
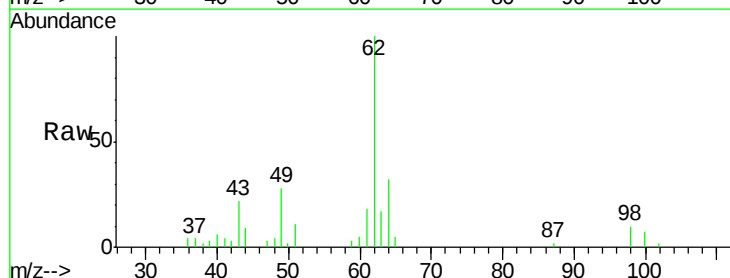
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

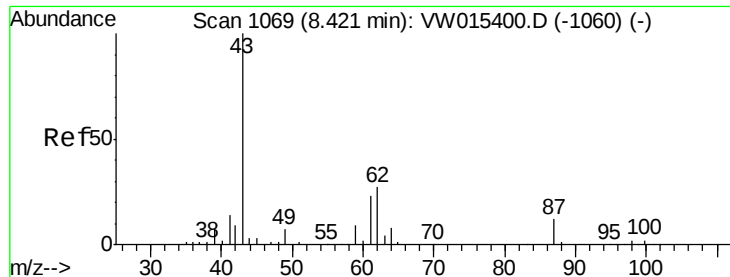
Tot Ion:	41	Resp:	2428
Ion	Ratio	Lower	Upper
41	100		
39	47.8	46.2	69.4
67	62.0	56.2	84.2
52	28.2	25.0	37.6



#42
1,2-Dichloroethane
Concen: 2.780 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:	62	Resp:	8080
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.6





#43

Isopropyl Acetate

Concen: 2.718 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

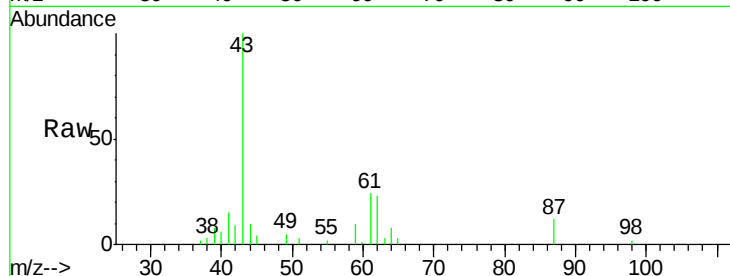
Tot Ion: 43 Resp: 7761

Ion Ratio Lower Upper

43 100

61 29.4 24.3 36.5

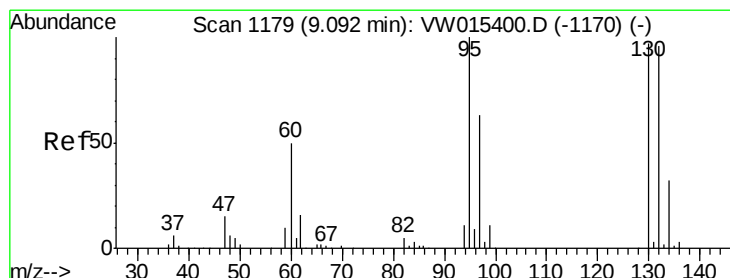
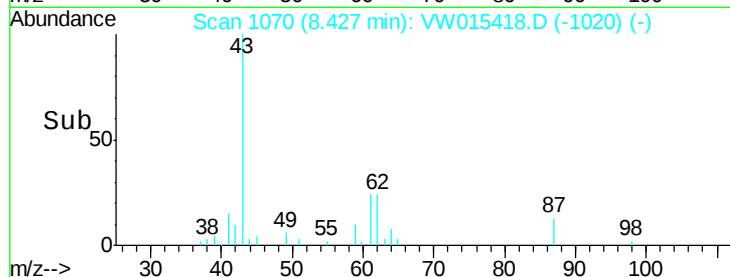
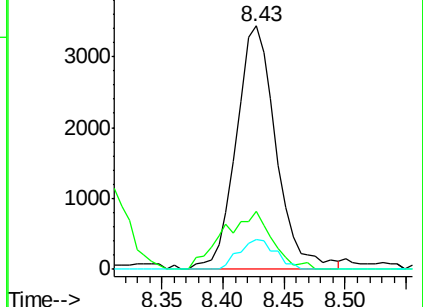
87 11.1 10.1 15.1



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: 2.627 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW015418.D

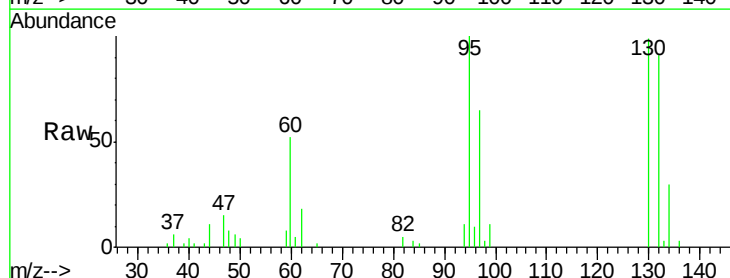
Acq: 07 May 2020 14:14

Tgt Ion:130 Resp: 6499

Ion Ratio Lower Upper

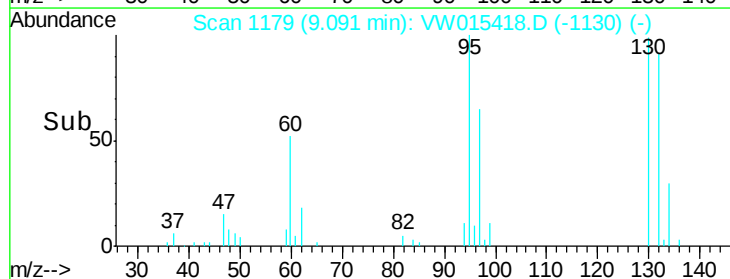
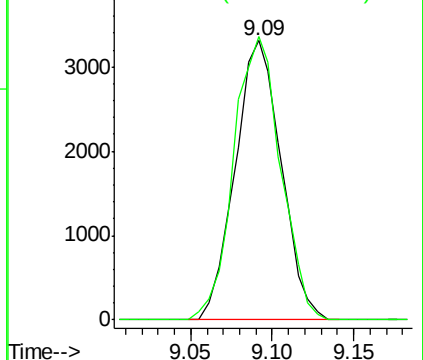
130 100

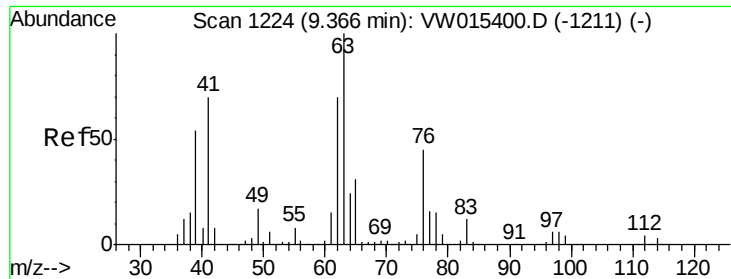
95 101.4 0.0 205.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 2.670 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

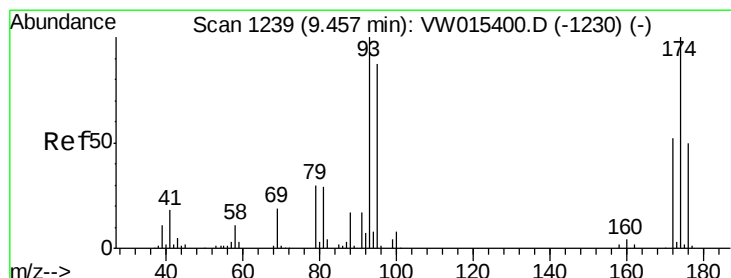
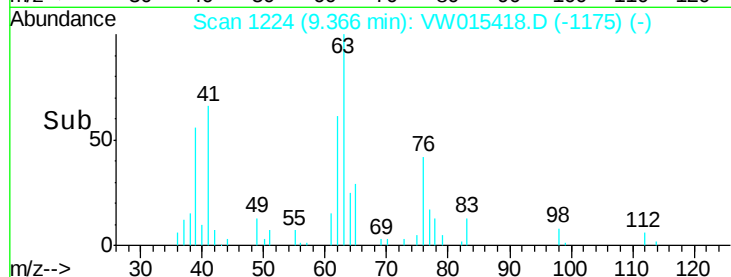
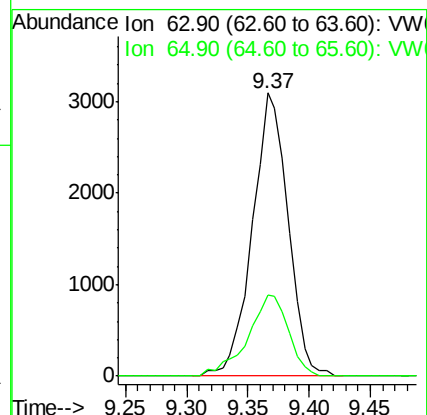
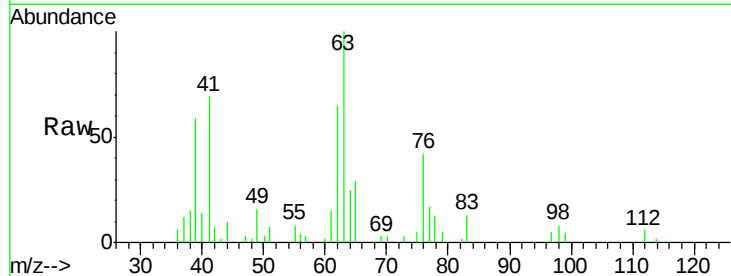
MDL-SOIL-03-QT2-2020DL

Tot Ion: 63 Resp: 6295

Ion Ratio Lower Upper

63 100

65 28.8 25.0 37.6



#46

Dibromomethane

Concen: 2.643 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

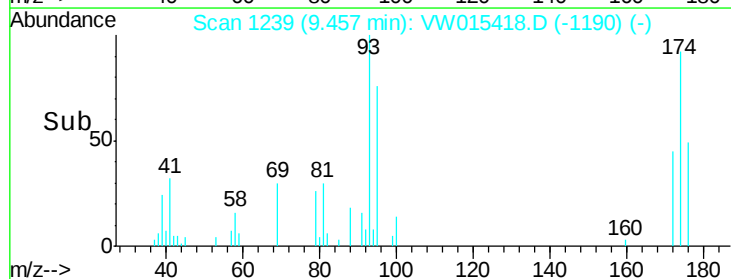
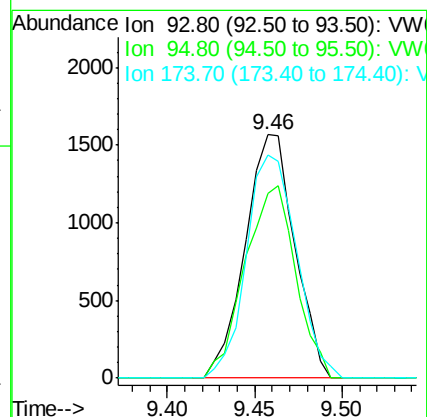
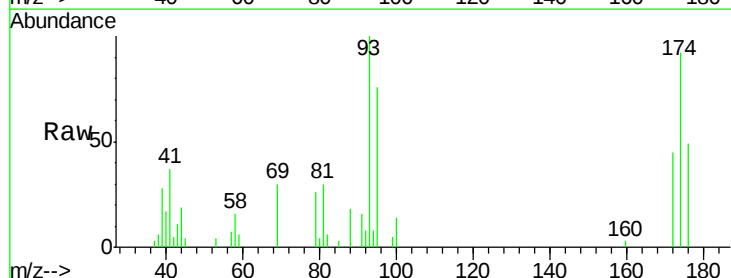
Tgt Ion: 93 Resp: 3099

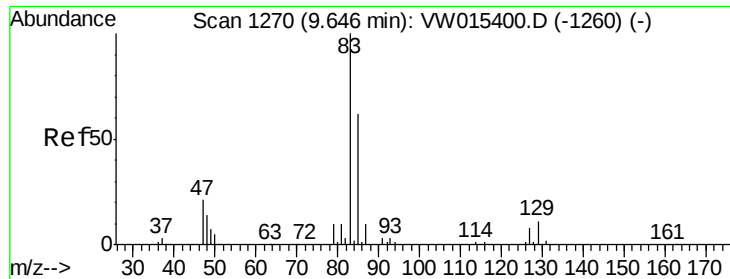
Ion Ratio Lower Upper

93 100

95 80.9 67.0 100.4

174 92.6 78.4 117.6





#47

Bromodichloromethane

Concen: 2.594 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

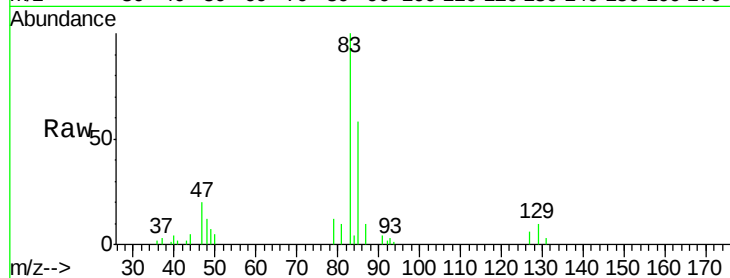
Tot Ion: 83 Resp: 8291

Ion Ratio Lower Upper

83 100

85 58.3 49.4 74.0

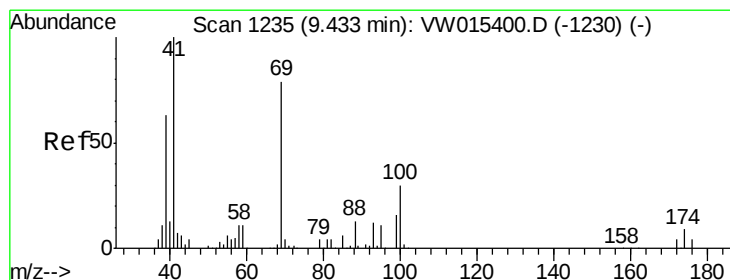
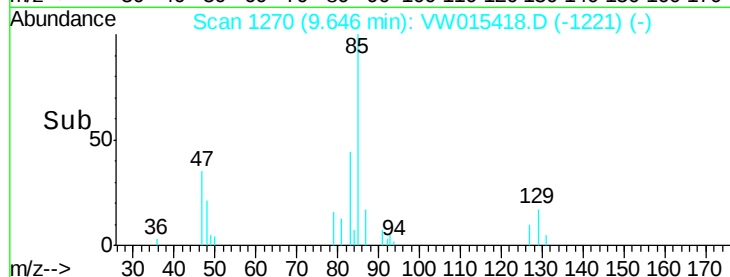
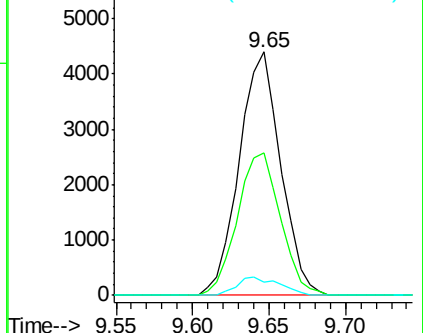
127 5.6 6.4 9.6#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.692 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

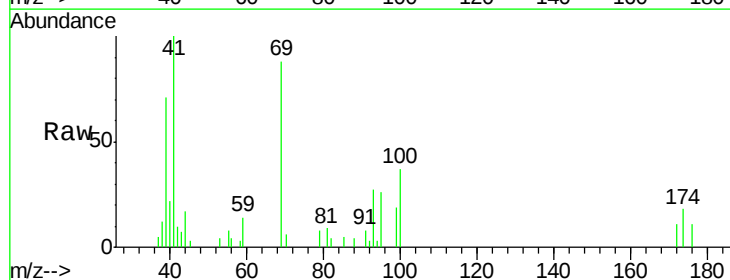
Tgt Ion: 41 Resp: 3551

Ion Ratio Lower Upper

41 100

69 77.4 66.2 99.4

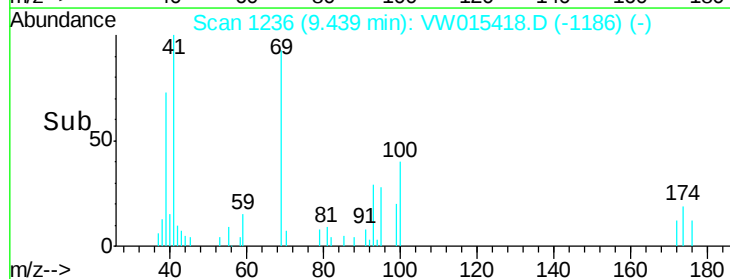
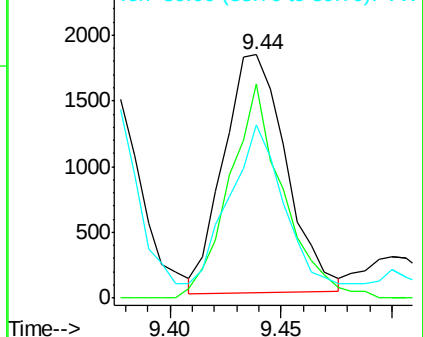
39 57.8 51.1 76.7

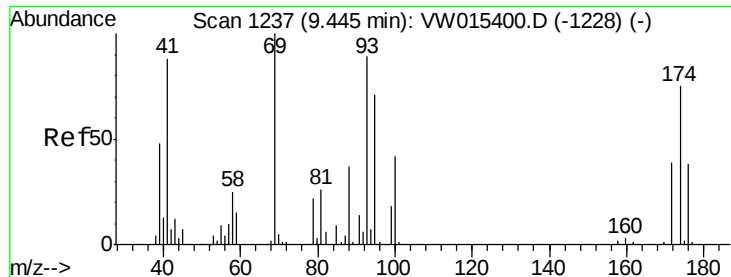


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 59.162 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.02 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

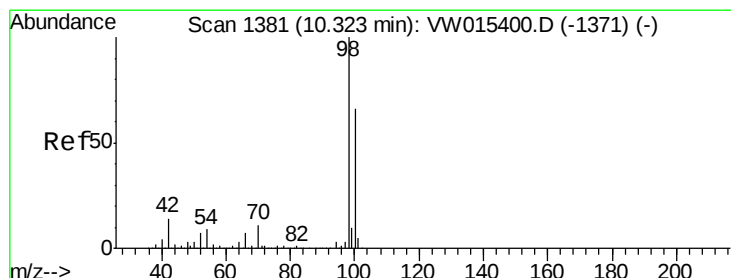
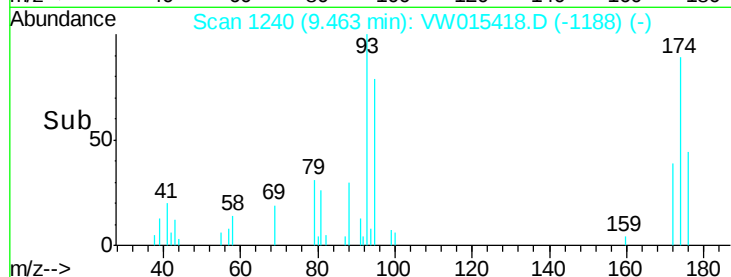
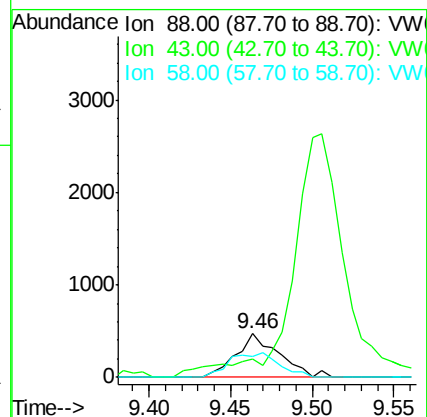
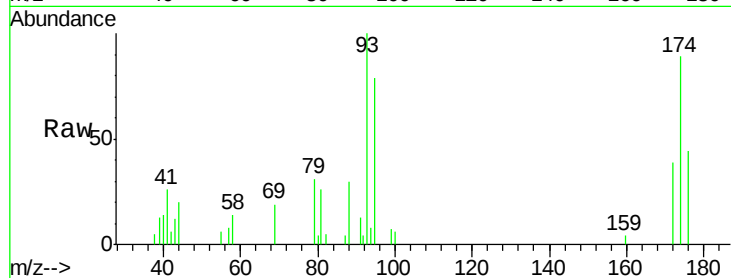
Tot Ion: 88 Resp: 873

Ion Ratio Lower Upper

88 100

43 0.0 30.6 45.8#

58 64.8 56.3 84.5



#50

Toluene-d8

Concen: 50.229 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW015418.D

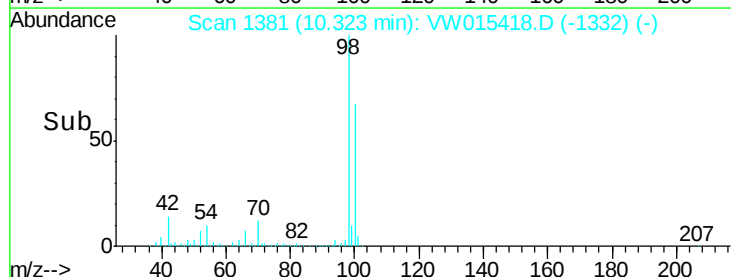
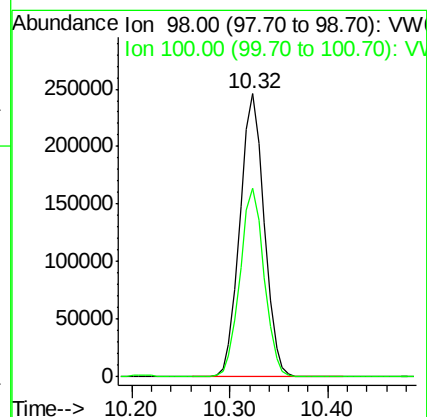
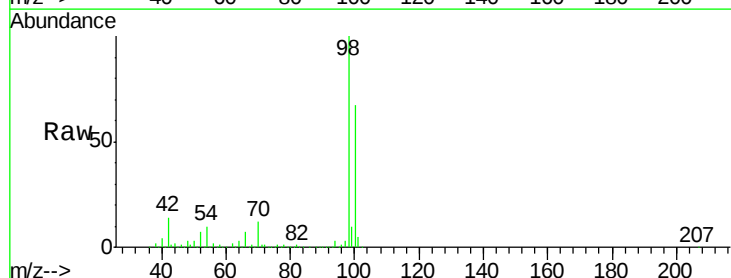
Acq: 07 May 2020 14:14

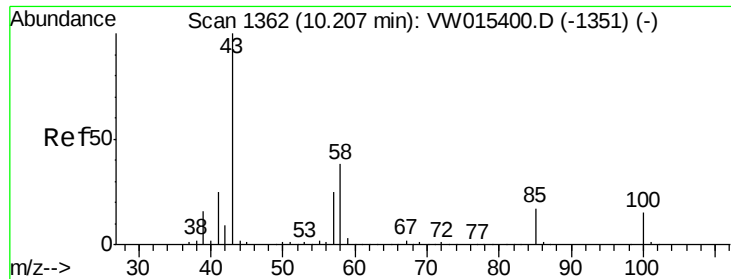
Tgt Ion: 98 Resp: 424912

Ion Ratio Lower Upper

98 100

100 66.1 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 16.461 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

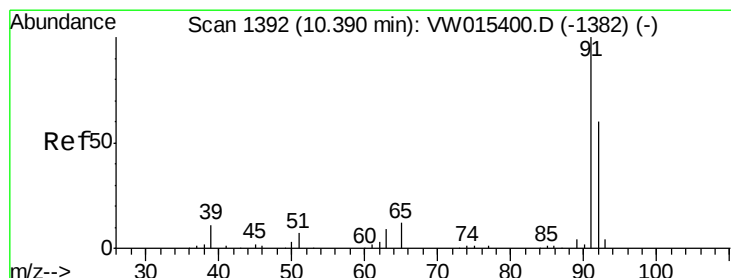
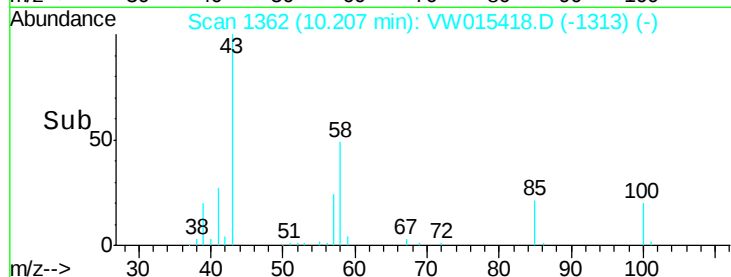
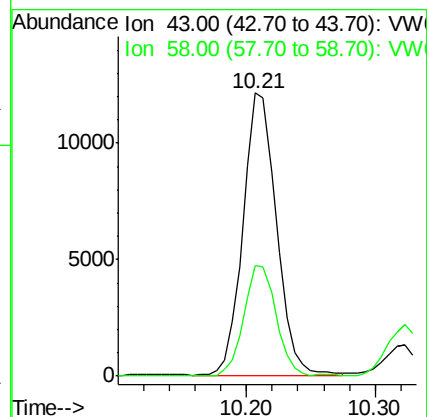
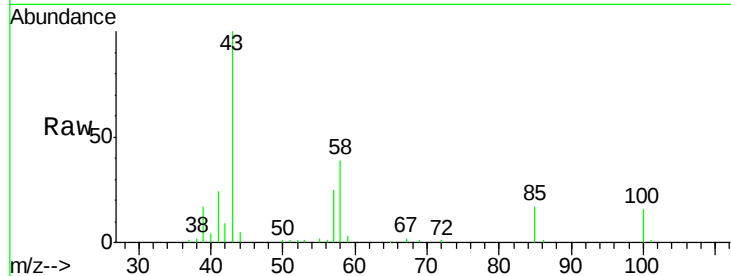
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 22028

Ion Ratio Lower Upper

43 100

58 37.2 30.8 46.2



#52

Toluene

Concen: 2.537 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015418.D

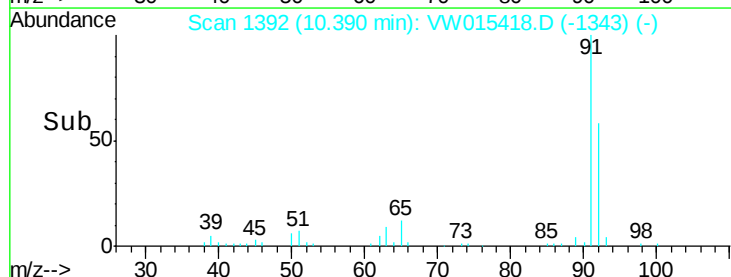
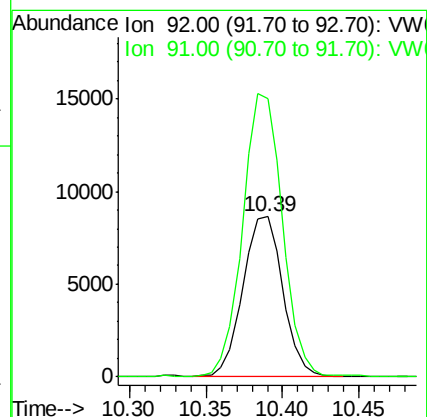
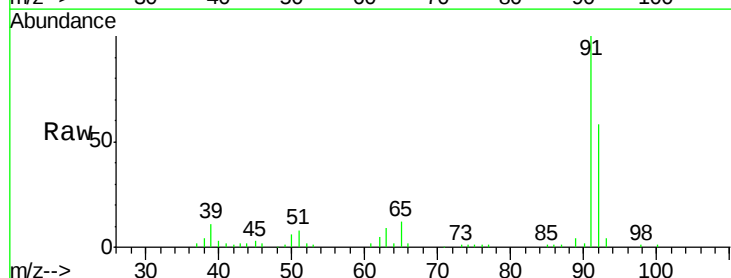
Acq: 07 May 2020 14:14

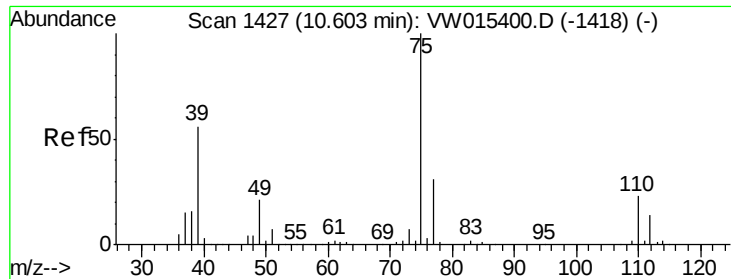
Tgt Ion: 92 Resp: 15733

Ion Ratio Lower Upper

92 100

91 175.4 135.9 203.9





#53

t-1,3-Dichloropropene

Concen: 2.417 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

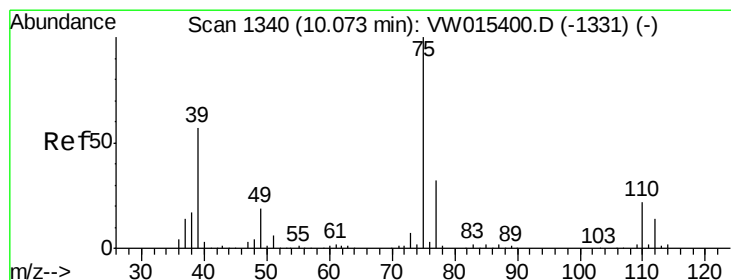
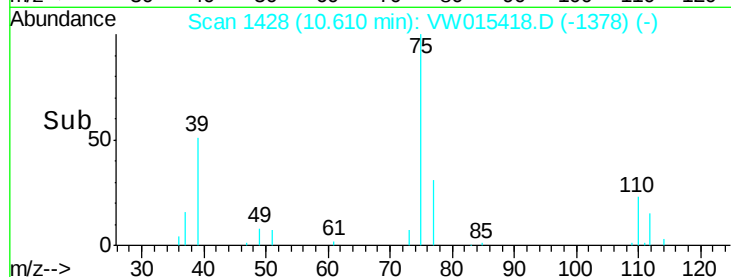
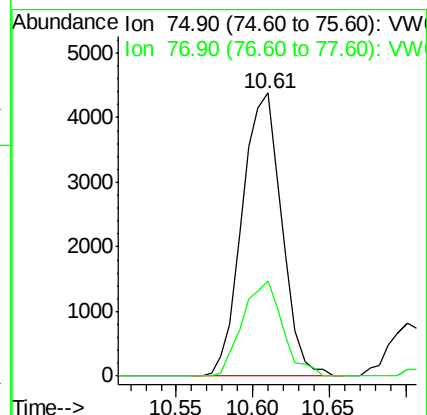
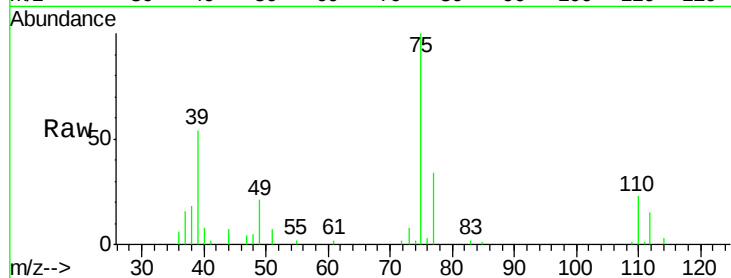
MDL-SOIL-03-QT2-2020DL

Tot Ion: 75 Resp: 7884

Ion Ratio Lower Upper

75 100

77 33.7 24.9 37.3



#54

cis-1,3-Dichloropropene

Concen: 2.441 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

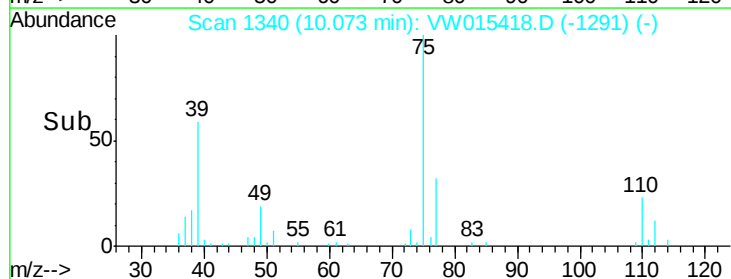
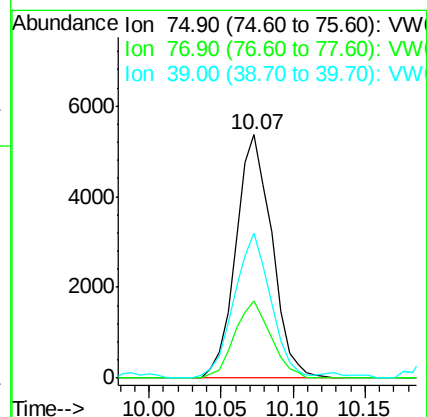
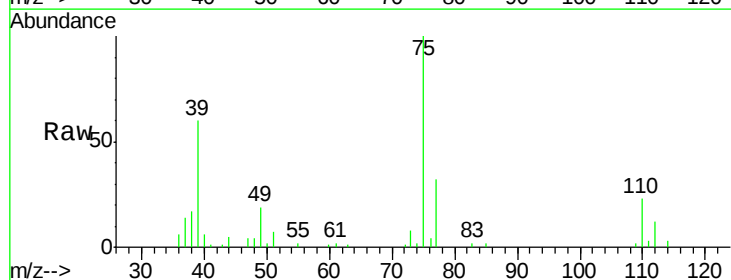
Tgt Ion: 75 Resp: 9376

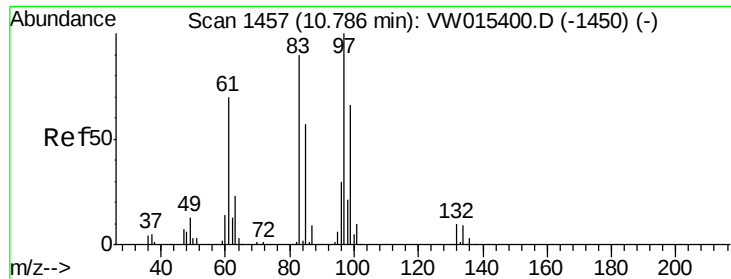
Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

39 59.8 45.6 68.4





#55

1,1,2-Trichloroethane

Concen: 2.560 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 97 Resp: 4244

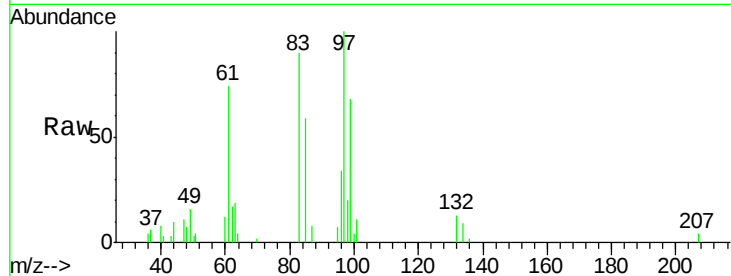
Ion Ratio Lower Upper

97 100

83 89.9 72.2 108.4

85 58.9 45.2 67.8

99 67.9 52.6 78.8

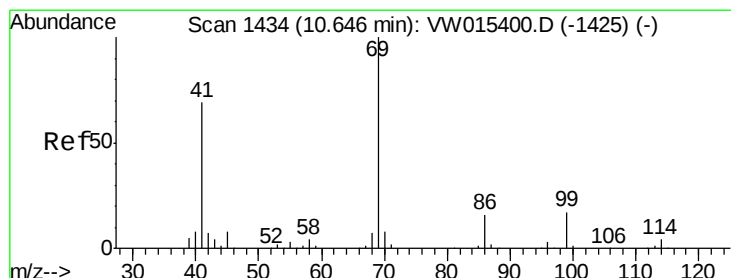
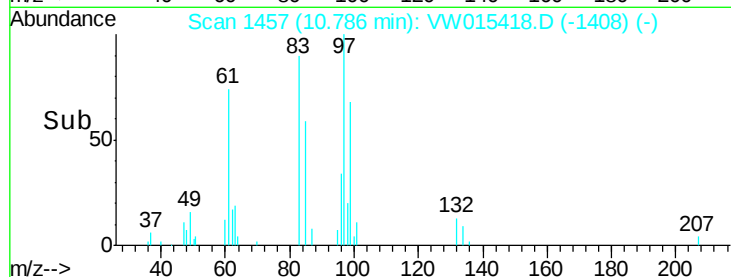
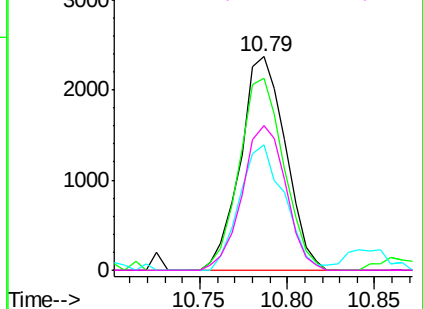


Abundance Ion 96.90 (96.60 to 97.60): VW

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: 2.448 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

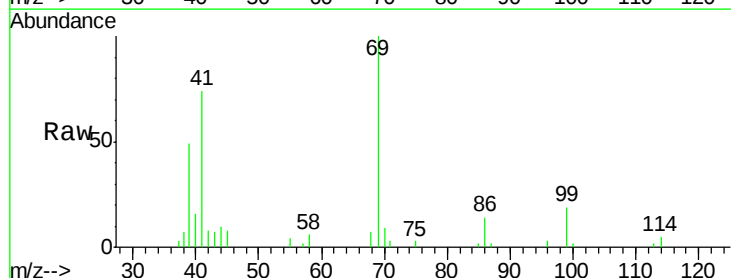
Tgt Ion: 69 Resp: 5577

Ion Ratio Lower Upper

69 100

41 79.8 55.3 82.9

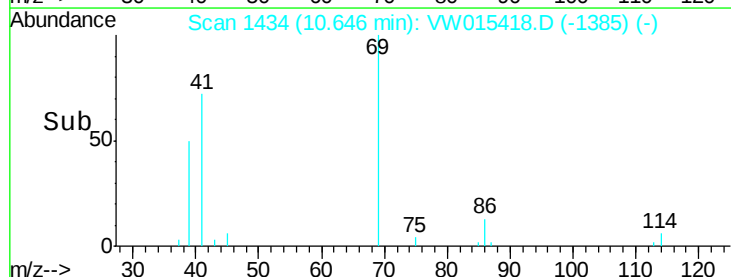
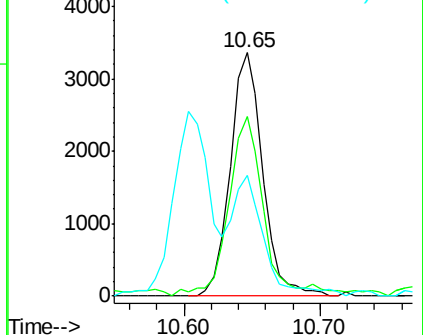
39 49.0 31.9 47.9#

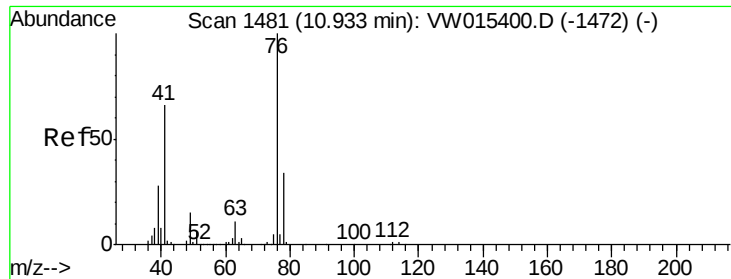


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

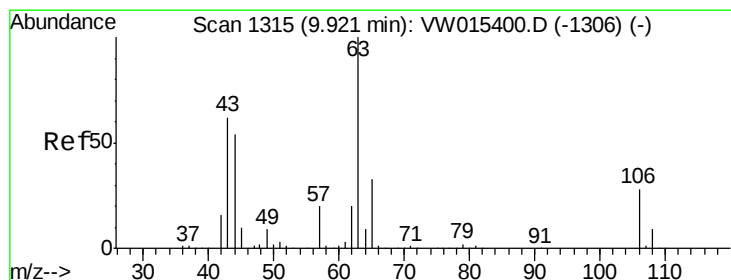
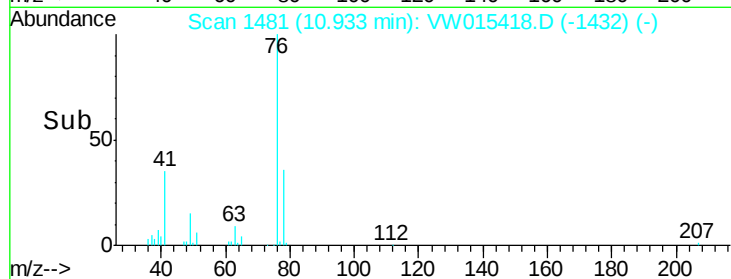
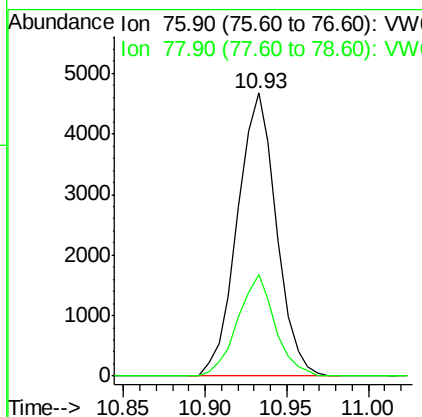
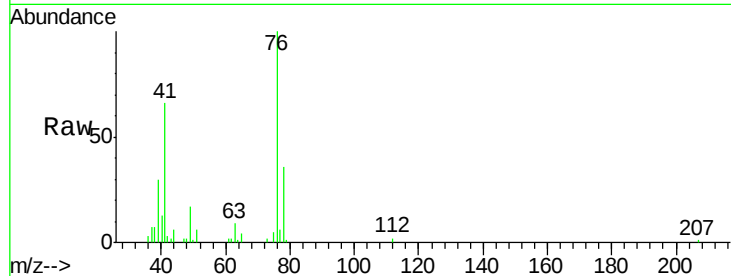




#57
 1,3-Dichloropropane
 Concen: 2.613 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

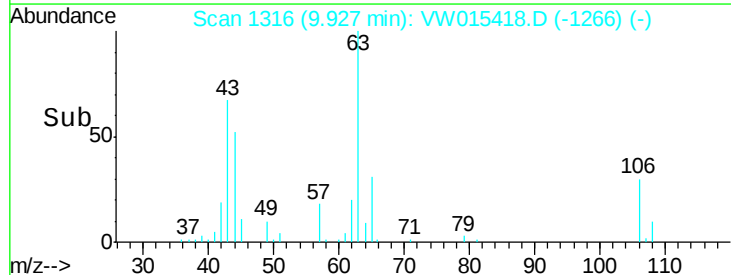
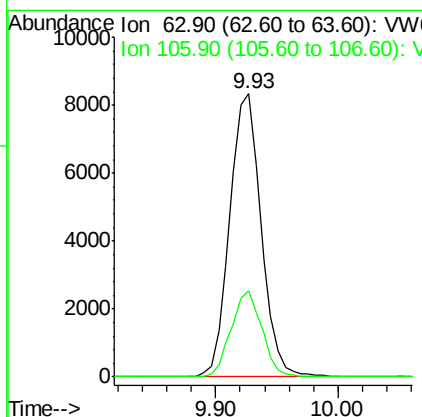
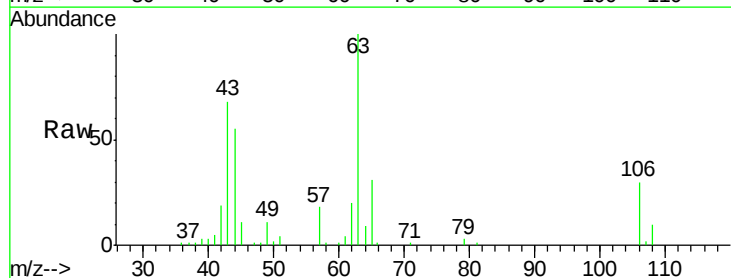
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

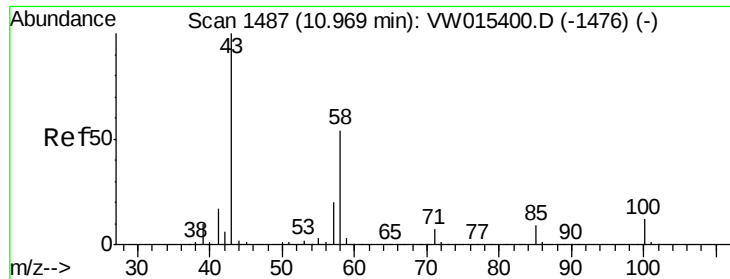
Tot Ion: 76 Resp: 7789
 Ion Ratio Lower Upper
 76 100
 78 34.4 26.3 39.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 13.355 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion: 63 Resp: 14802
 Ion Ratio Lower Upper
 63 100
 106 29.5 22.6 33.8





#59

2-Hexanone

Concen: 12.537 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

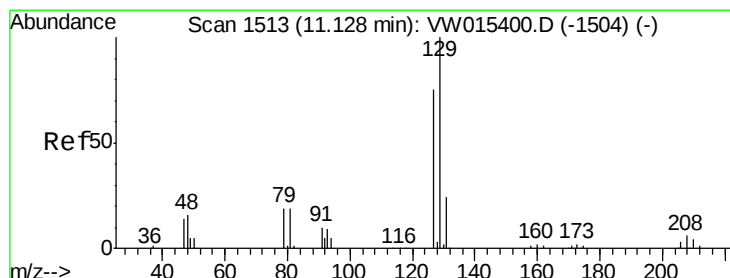
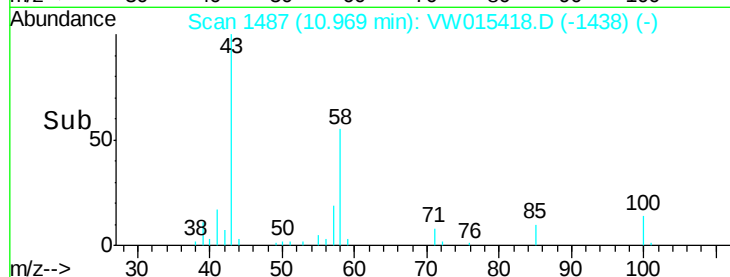
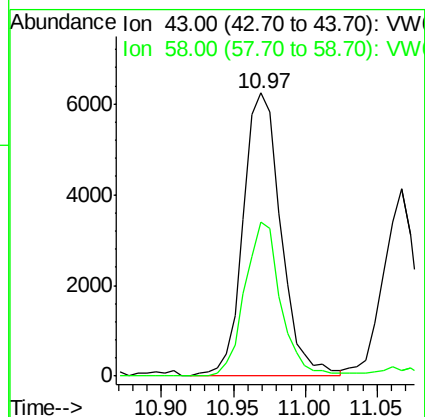
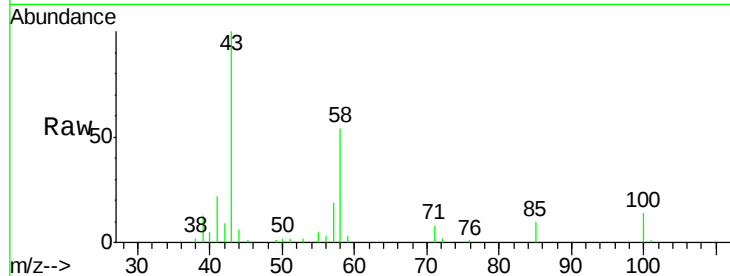
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 11352

Ion Ratio Lower Upper

43 100

58 51.7 26.7 80.0



#60

Dibromochloromethane

Concen: 2.446 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW015418.D

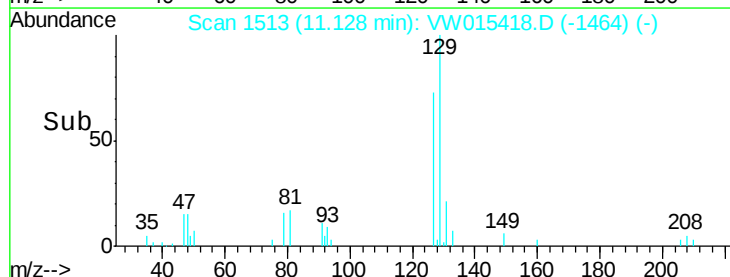
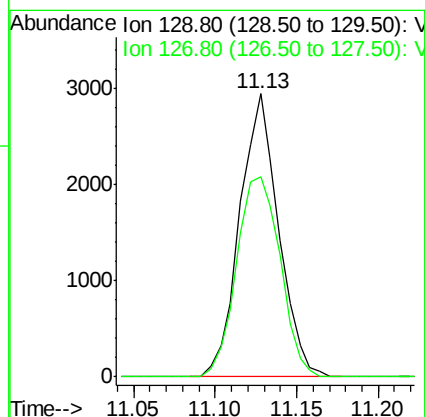
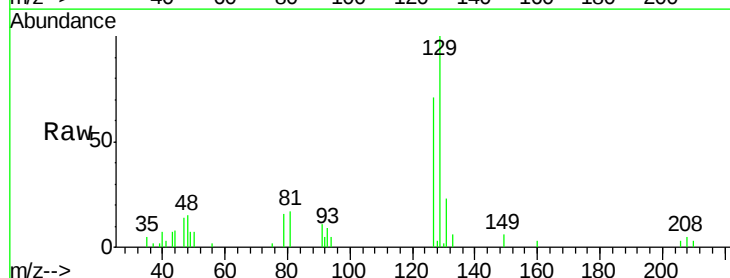
Acq: 07 May 2020 14:14

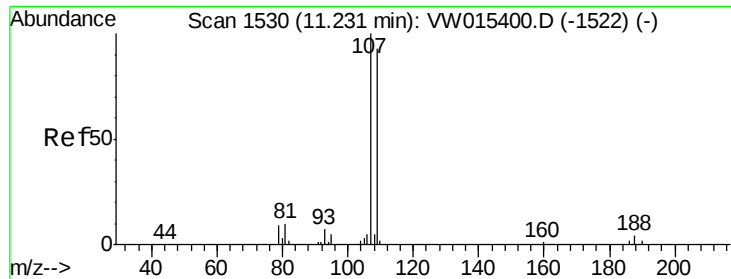
Tgt Ion: 129 Resp: 4878

Ion Ratio Lower Upper

129 100

127 79.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 2.550 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

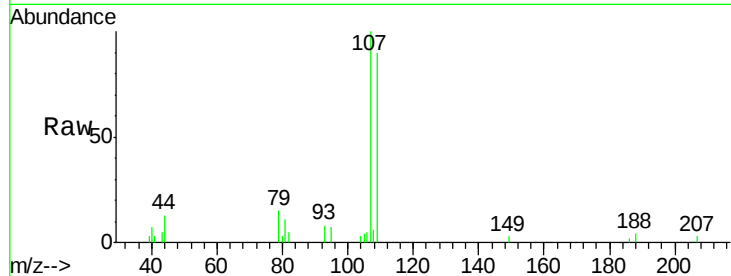
MDL-SOIL-03-QT2-2020DL

Tot Ion:107 Resp: 4003

Ion Ratio Lower Upper

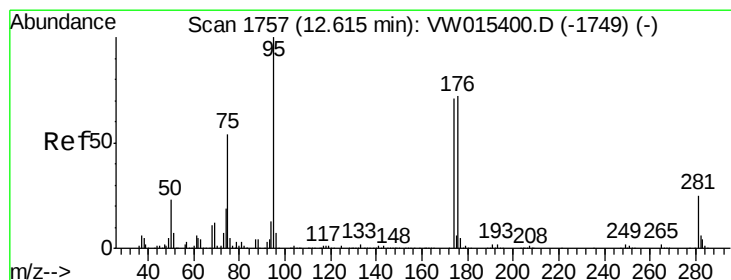
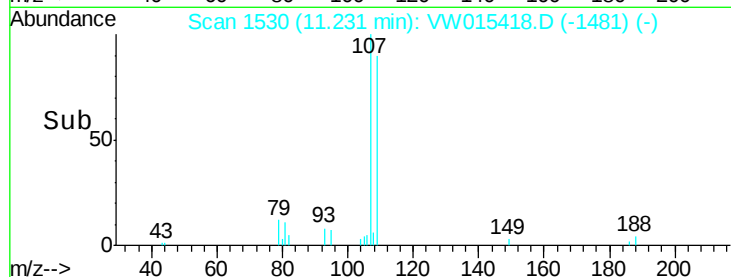
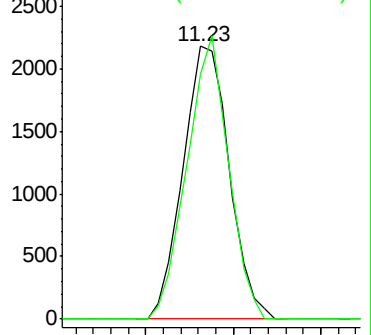
107 100

109 93.2 75.0 112.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.395 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

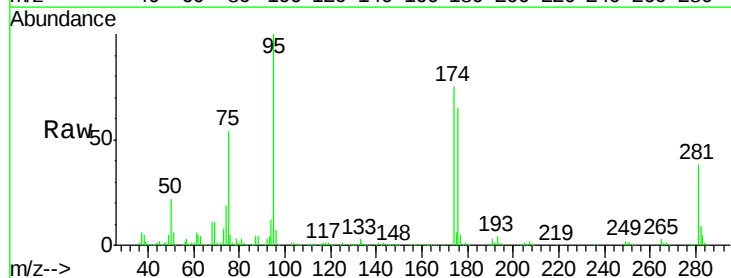
Tgt Ion: 95 Resp: 151172

Ion Ratio Lower Upper

95 100

174 75.5 0.0 147.6

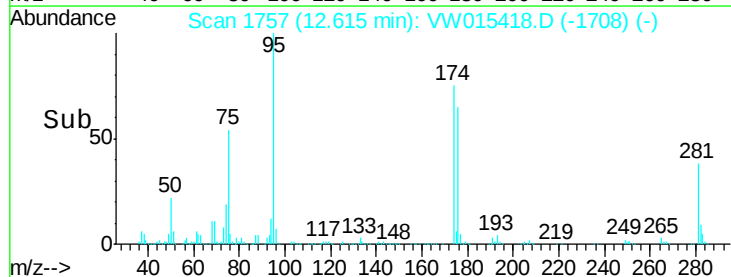
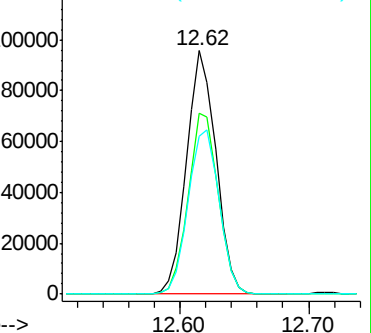
176 70.9 0.0 144.4

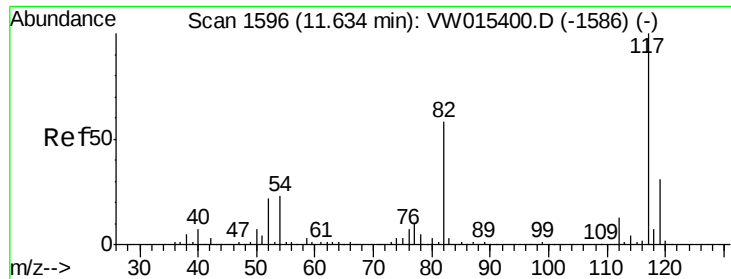


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

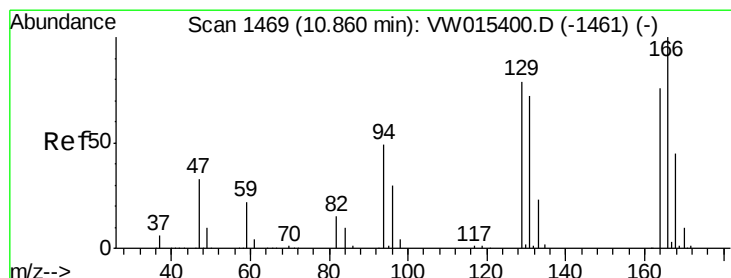
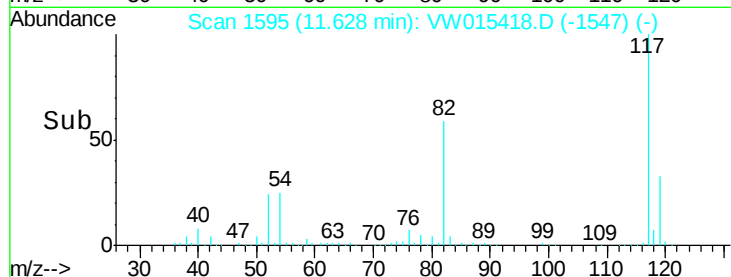
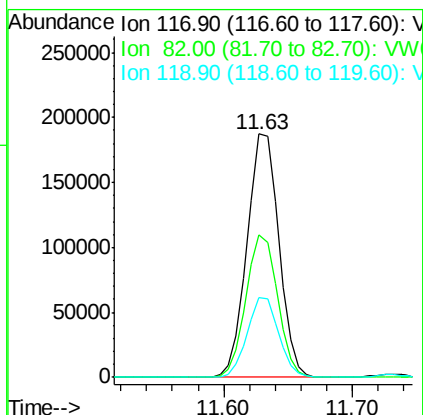
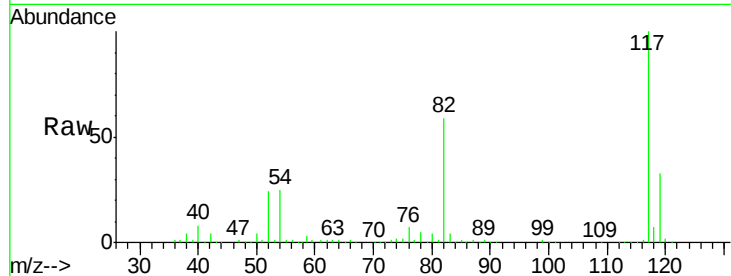




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

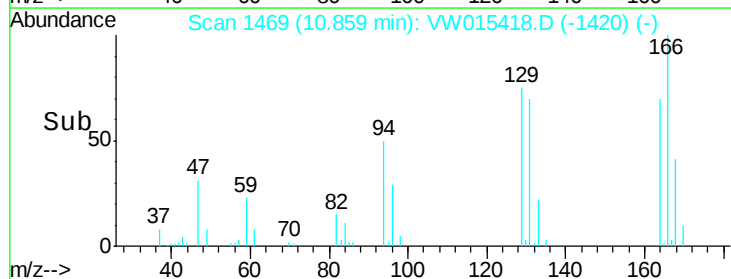
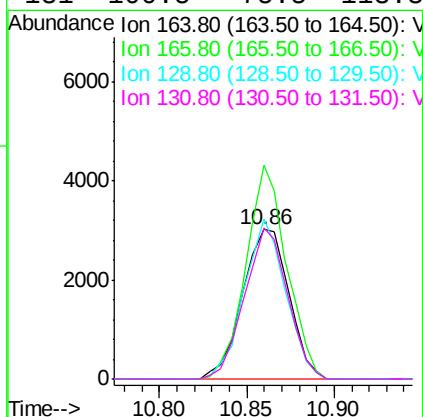
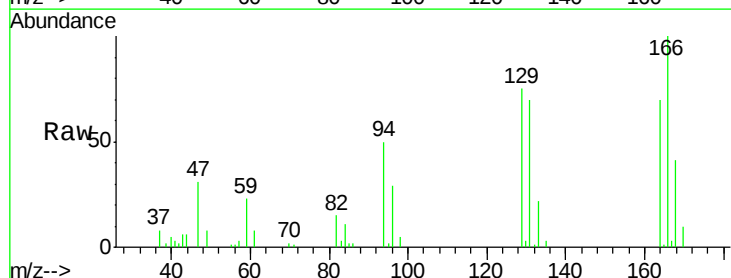
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

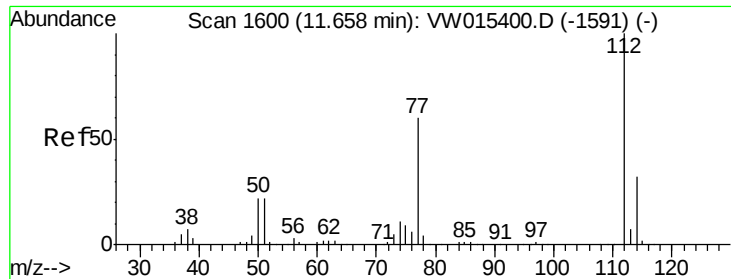
Tot Ion:117 Resp: 319776
Ion Ratio Lower Upper
117 100
82 58.6 46.4 69.6
119 32.6 24.6 37.0



#64
Tetrachloroethene
Concen: 2.846 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:164 Resp: 5563
Ion Ratio Lower Upper
164 100
166 142.7 104.9 157.3
129 106.5 82.7 124.1
131 100.5 75.5 113.3

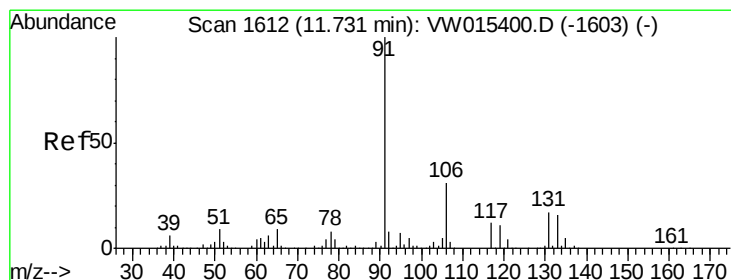
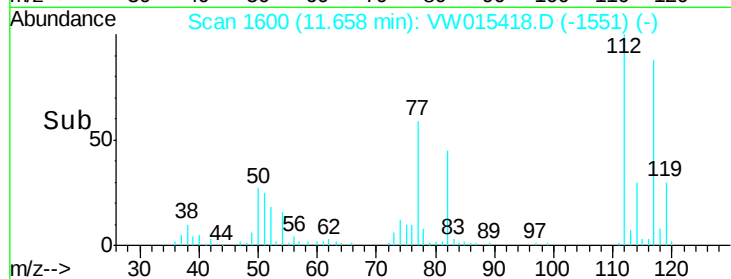
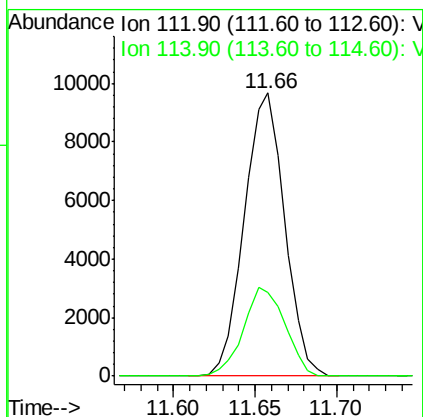
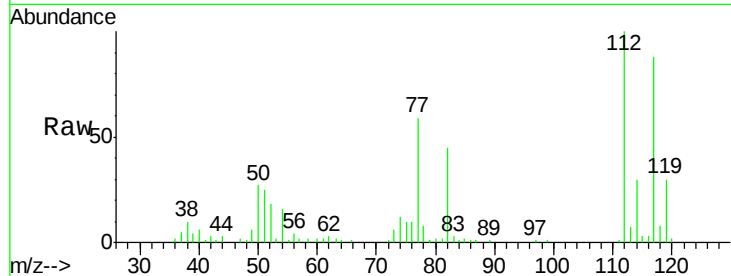




#65
Chlorobenzene
Concen: 2.643 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

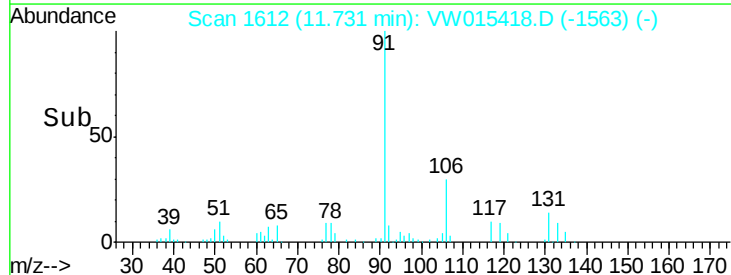
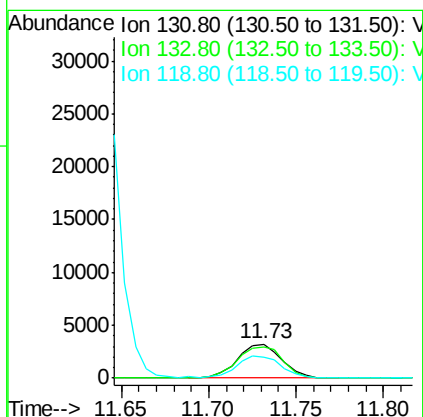
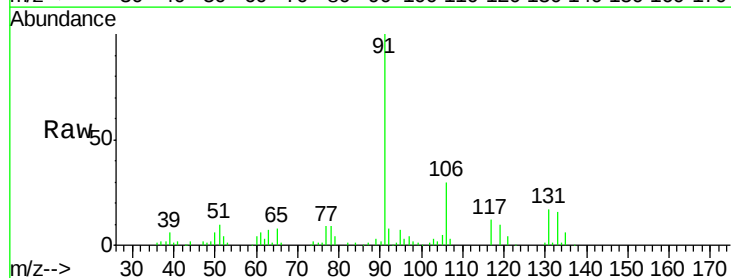
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

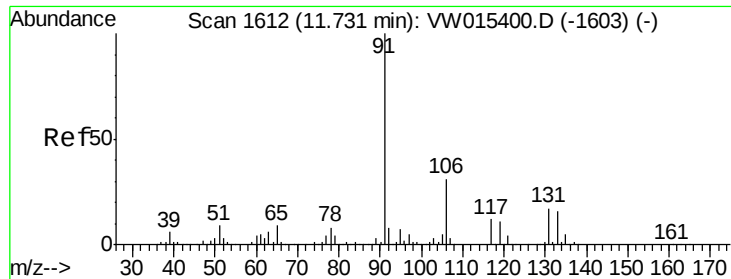
Tot Ion:112 Resp: 16662
Ion Ratio Lower Upper
112 100
114 29.5 25.6 38.4



#66
1,1,1,2-Tetrachloroethane
Concen: 2.518 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:131 Resp: 5629
Ion Ratio Lower Upper
131 100
133 97.4 47.9 143.8
119 64.9 33.0 99.0

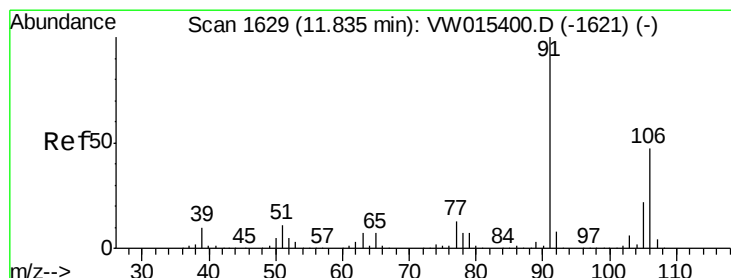
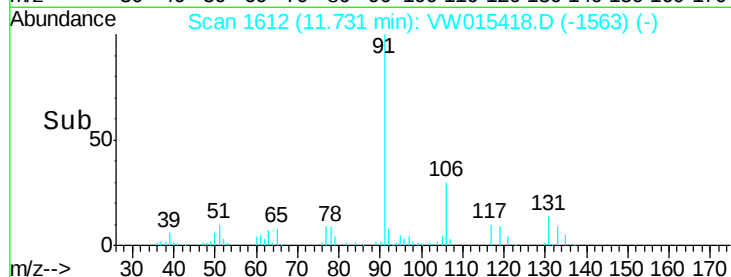
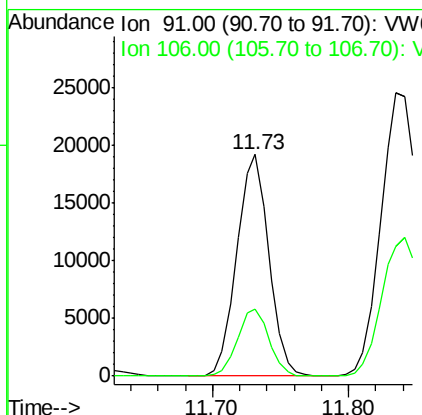
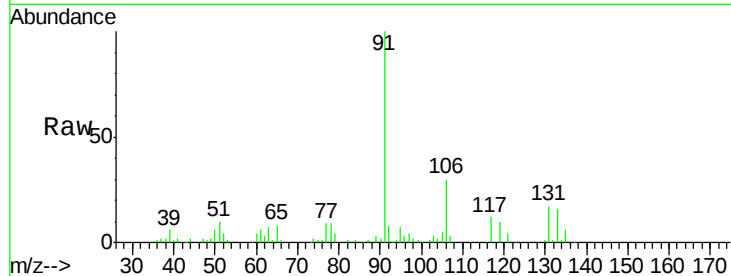




#67
Ethyl Benzene
Concen: 2.617 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

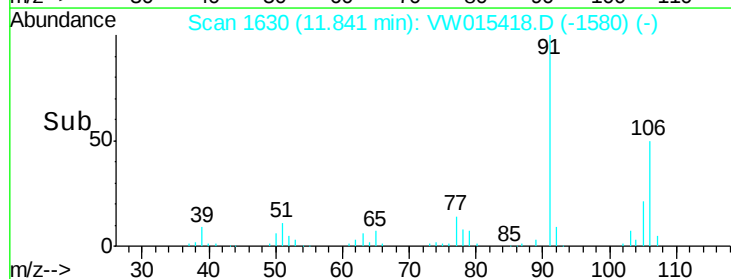
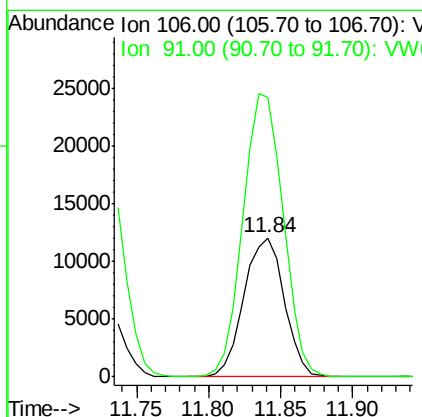
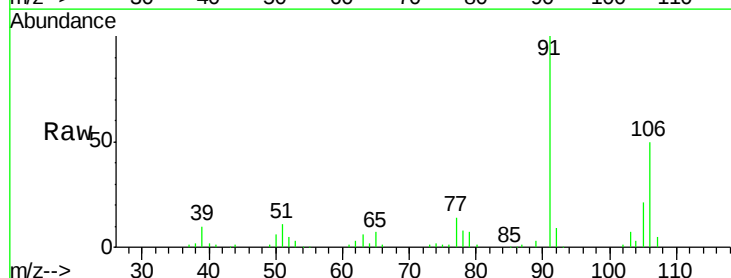
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

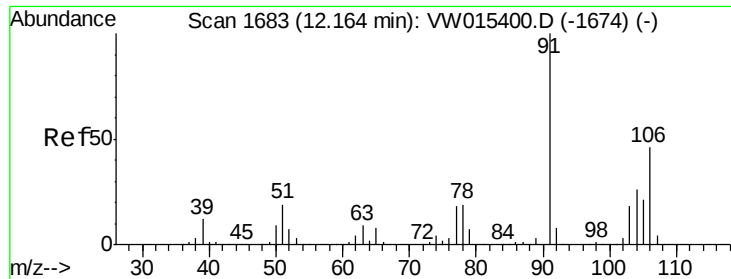
Tot Ion: 91 Resp: 31579
Ion Ratio Lower Upper
91 100
106 30.4 25.2 37.8



#68
m/p-Xylenes
Concen: 5.211 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:106 Resp: 23380
Ion Ratio Lower Upper
106 100
91 203.2 165.7 248.5

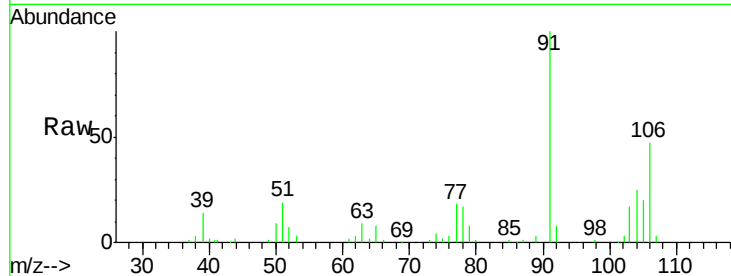




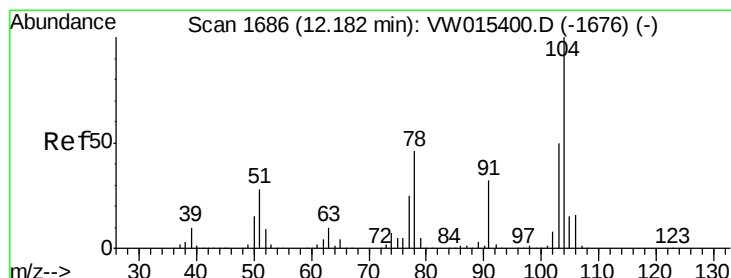
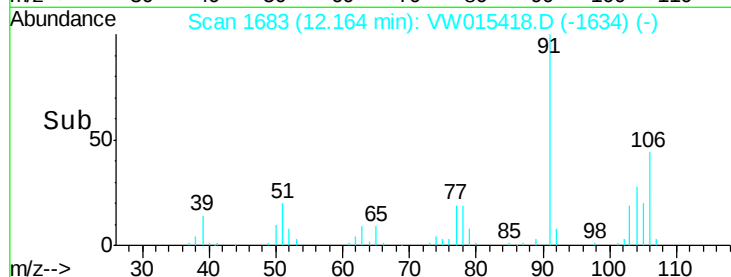
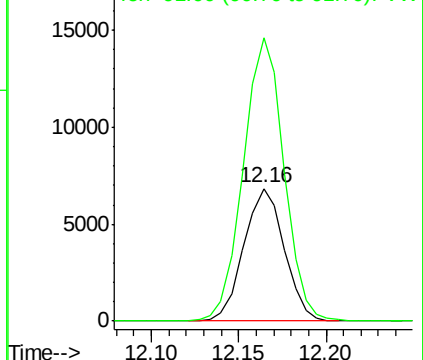
#69
o-Xylene
Concen: 2.596 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:106 Resp: 10946
Ion Ratio Lower Upper
106 100
91 214.6 109.0 327.0

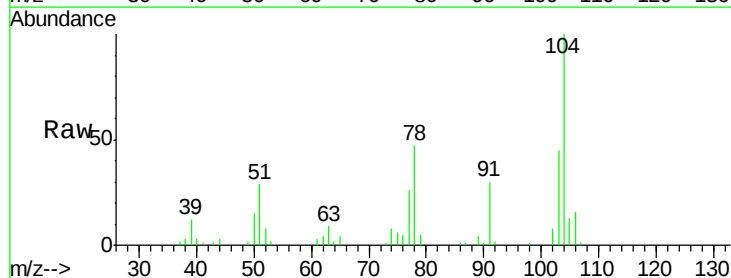


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

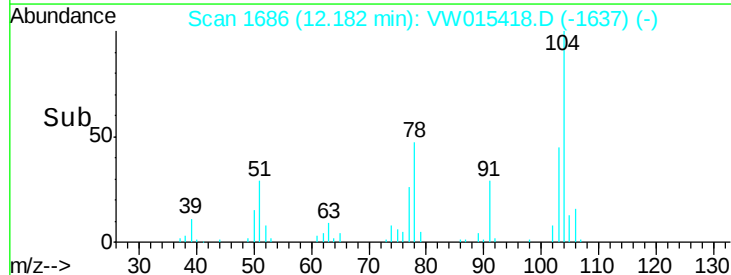
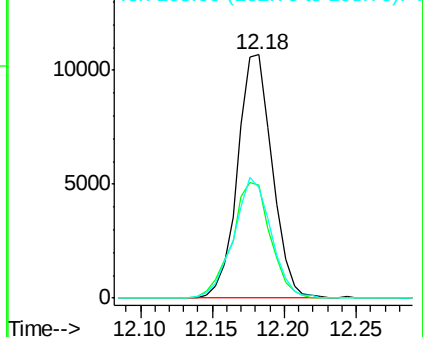


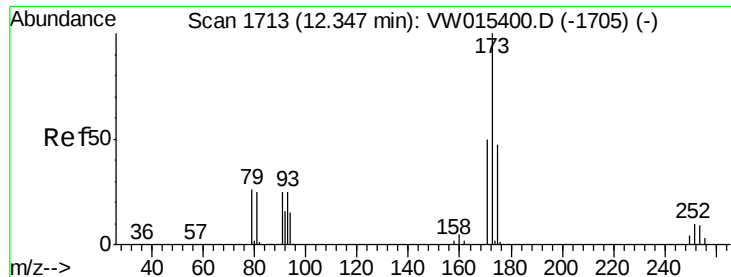
#70
Styrene
Concen: 2.455 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:104 Resp: 17829
Ion Ratio Lower Upper
104 100
78 52.9 41.8 62.8
103 53.4 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

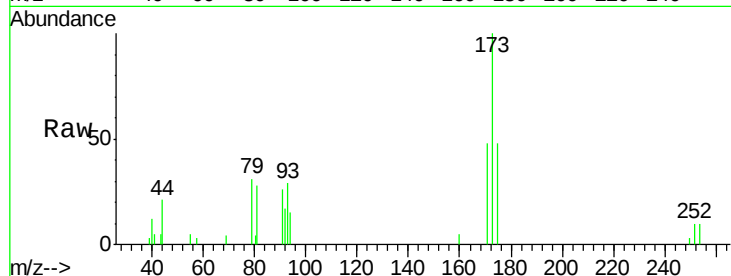




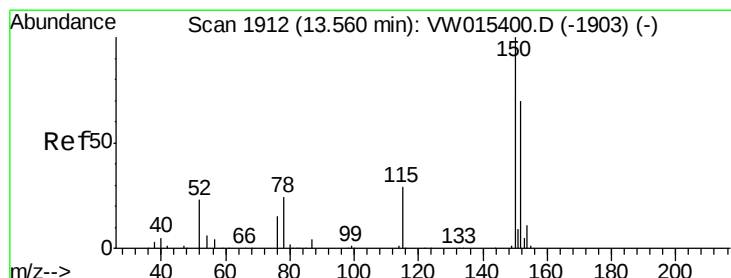
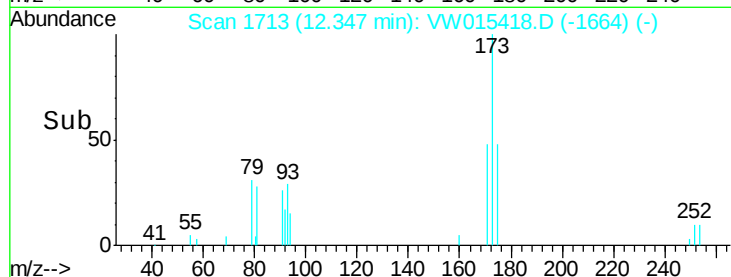
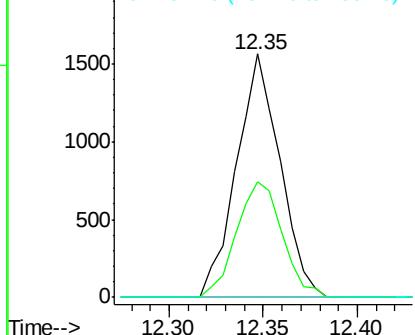
#71
Bromoform
Concen: 2.290 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:173 Resp: 2496
Ion Ratio Lower Upper
173 100
175 50.2 23.8 71.4
254 0.0 0.0 0.0

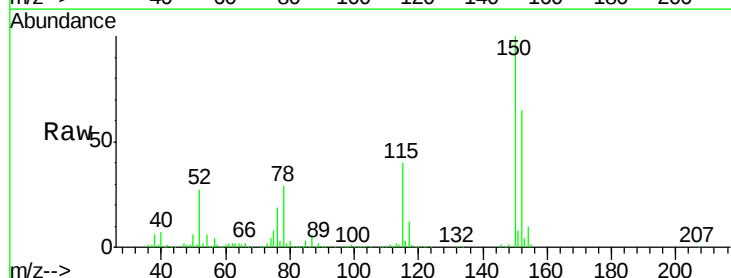


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

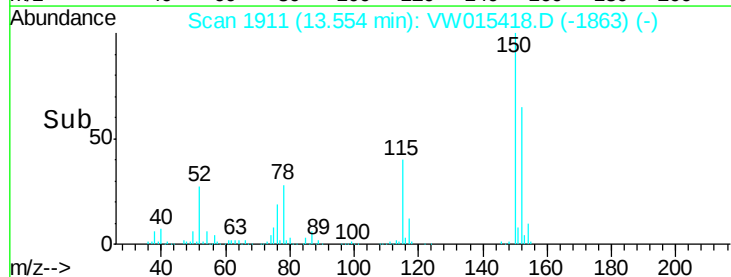
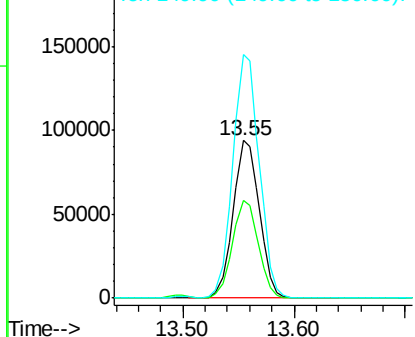


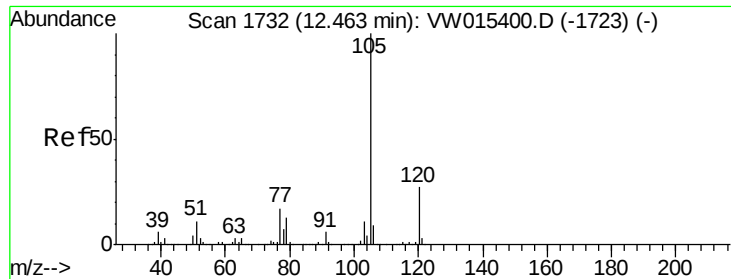
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:152 Resp: 152543
Ion Ratio Lower Upper
152 100
115 61.7 30.3 90.8
150 155.8 0.0 344.4



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: 2.640 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

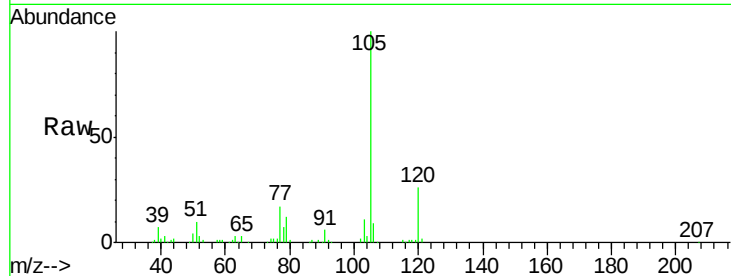
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 30068

Ion Ratio Lower Upper

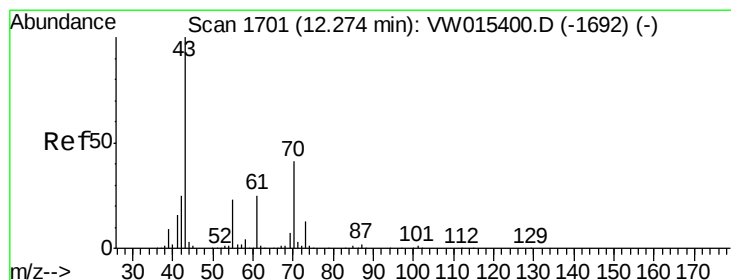
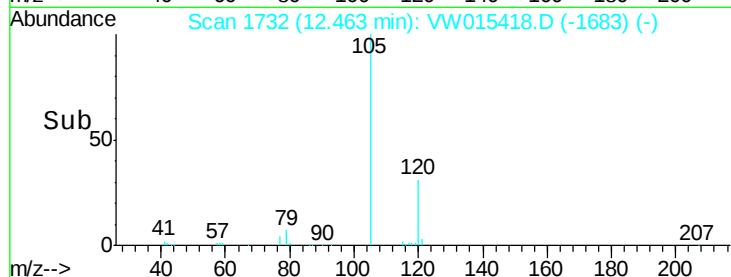
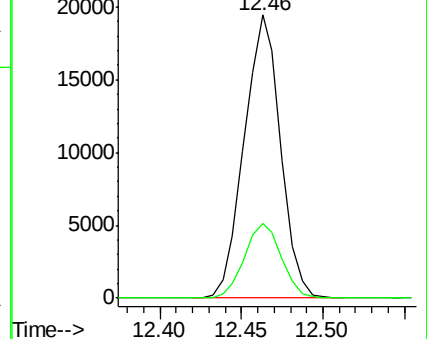
105 100

120 26.7 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.520 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Tgt Ion: 43 Resp: 6785

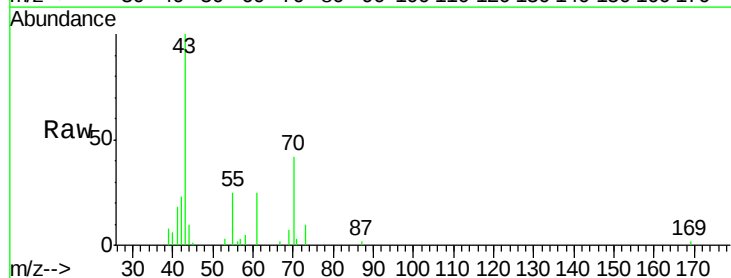
Ion Ratio Lower Upper

43 100

70 40.5 33.4 50.0

55 23.9 18.9 28.3

61 22.8 19.4 29.0

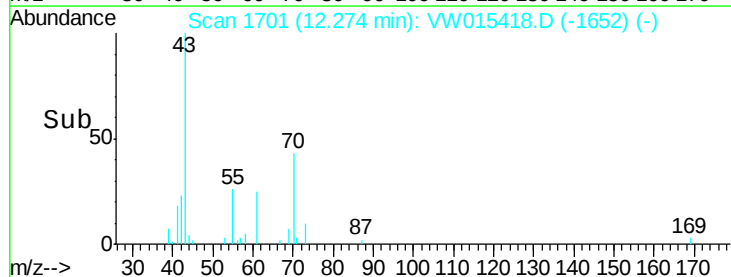
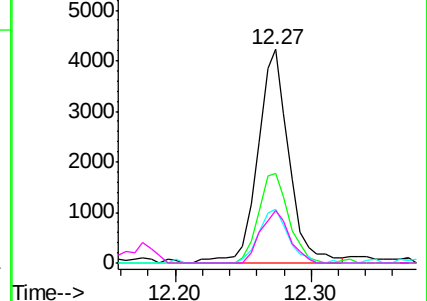


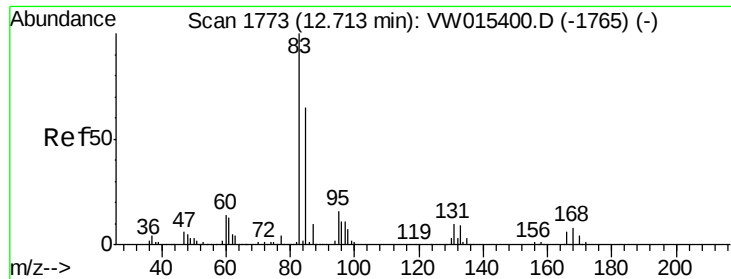
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 2.743 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

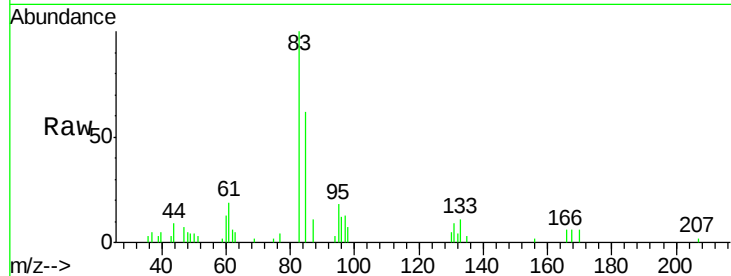
Tot Ion: 83 Resp: 4887

Ion Ratio Lower Upper

83 100

131 10.0 5.1 15.2

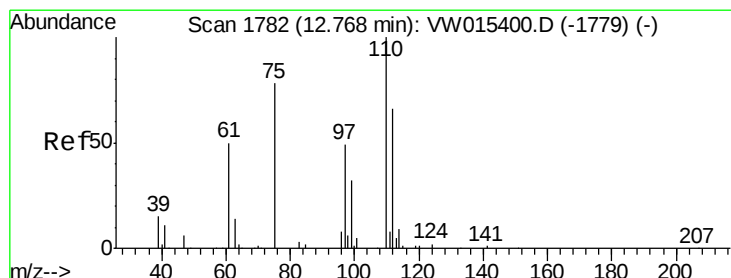
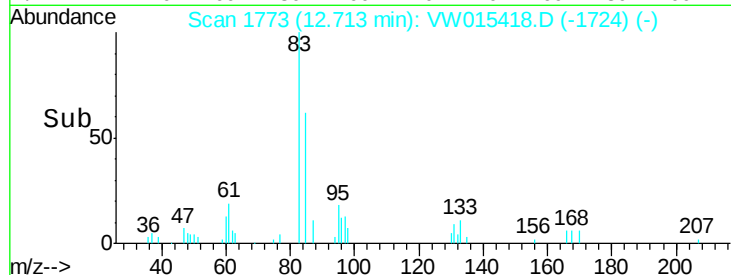
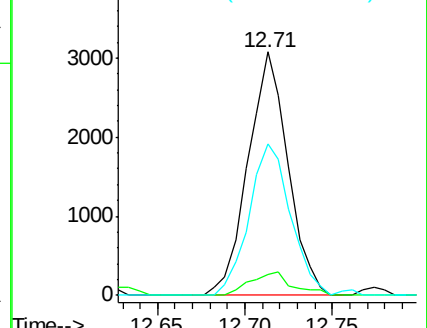
85 65.4 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 2.467 ug/l m

RT: 12.76 min Scan# 1781

Delta R.T. -0.01 min

Lab File: VW015418.D

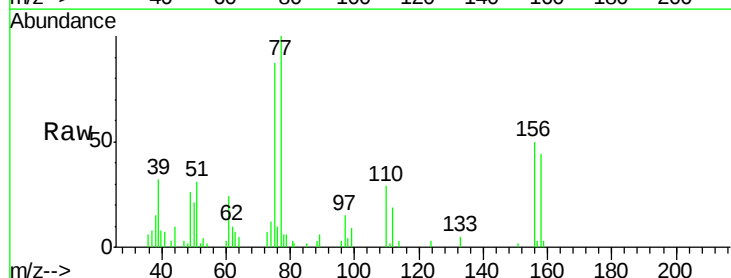
Acq: 07 May 2020 14:14

Tgt Ion: 75 Resp: 3096

Ion Ratio Lower Upper

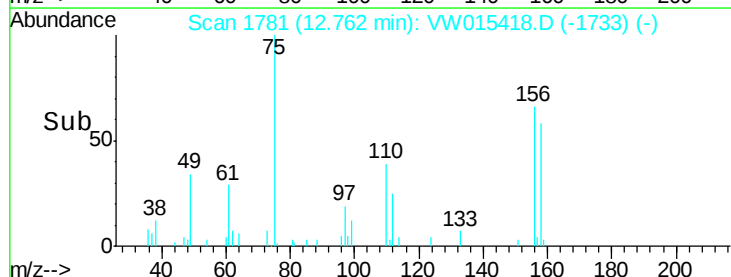
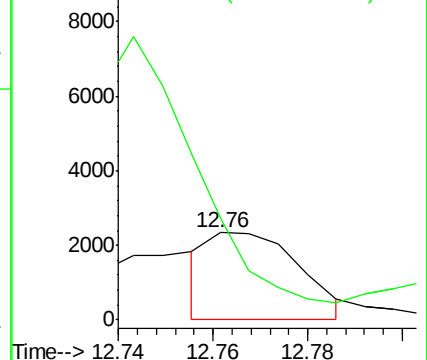
75 100

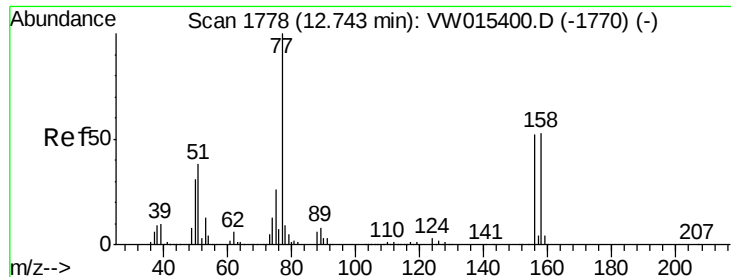
77 439.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.634 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

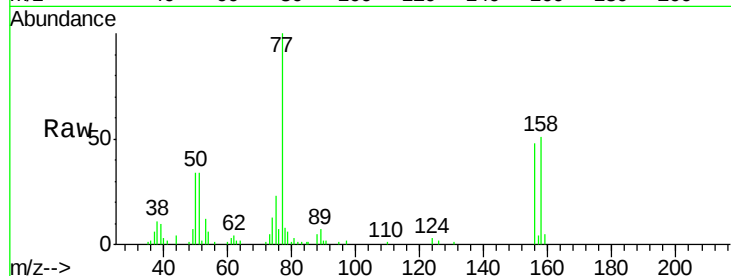
Tot Ion:156 Resp: 6356

Ion Ratio Lower Upper

156 100

77 214.0 101.8 305.6

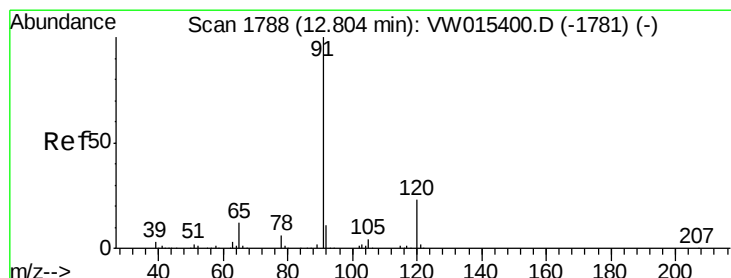
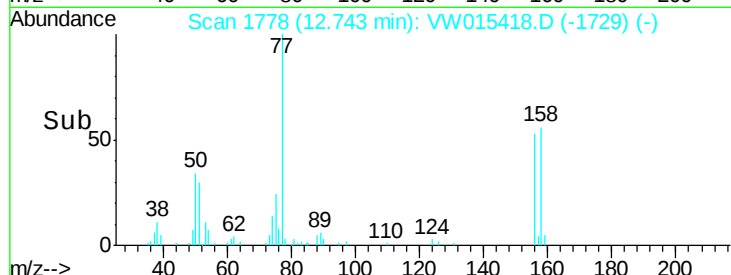
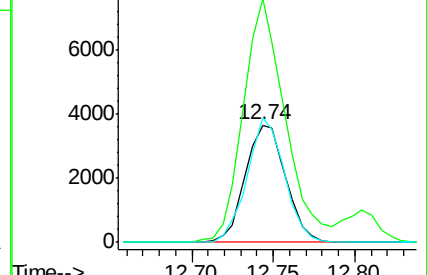
158 97.5 48.3 144.8



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: 2.752 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015418.D

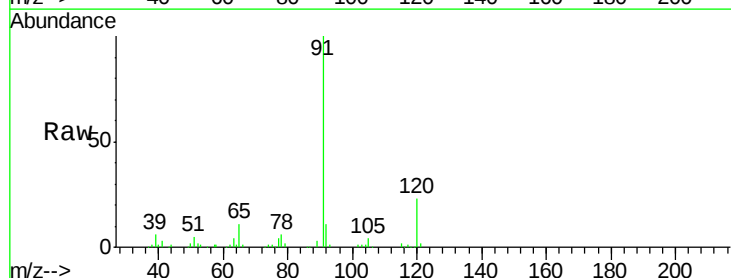
Acq: 07 May 2020 14:14

Tgt Ion: 91 Resp: 37602

Ion Ratio Lower Upper

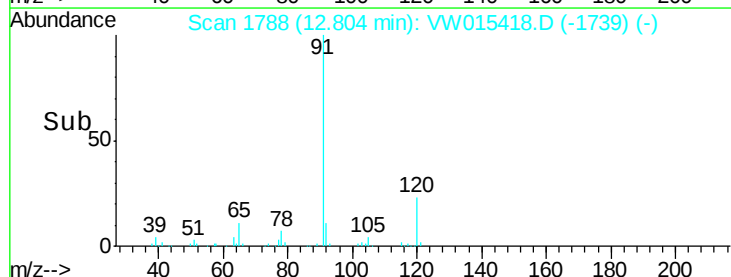
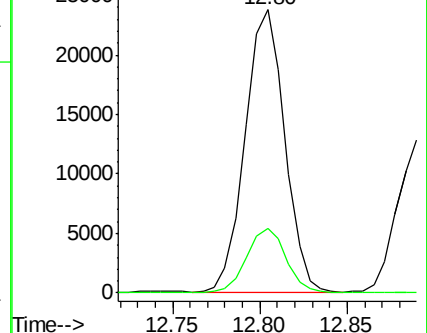
91 100

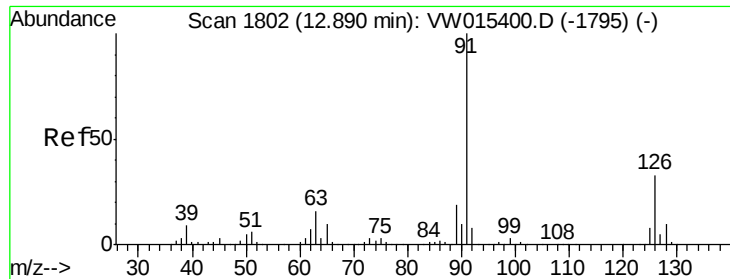
120 22.5 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.723 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

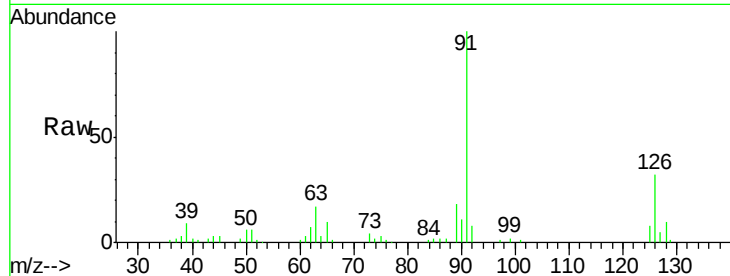
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 20974

Ion Ratio Lower Upper

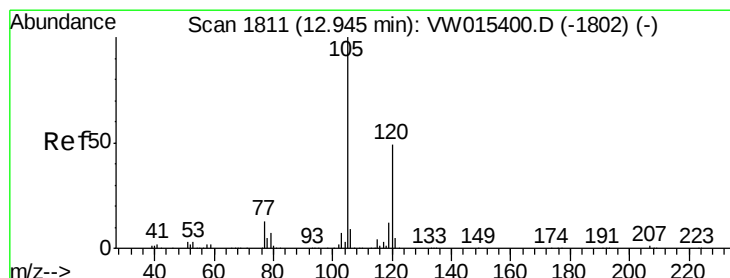
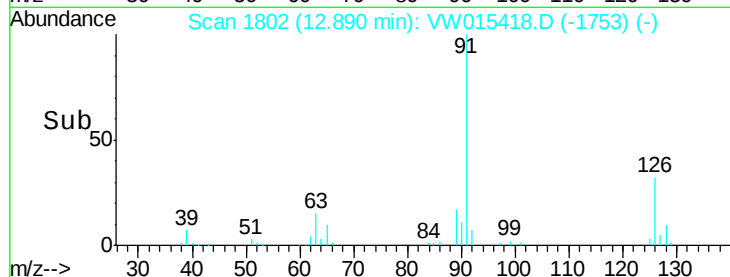
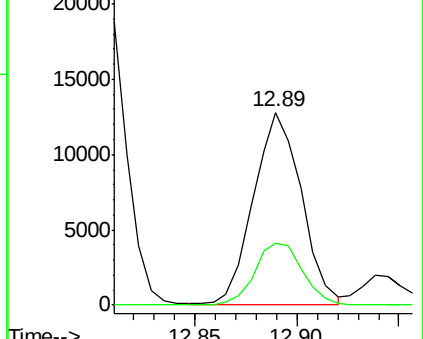
91 100

126 32.3 16.1 48.2



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: 2.662 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW015418.D

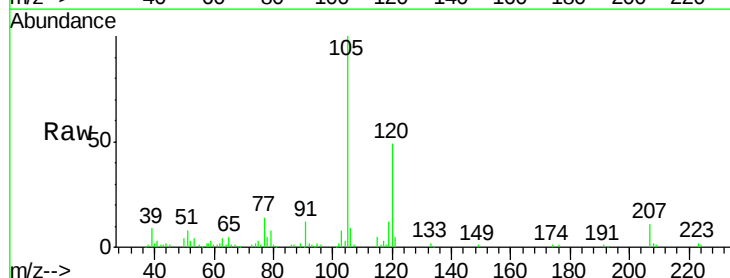
Acq: 07 May 2020 14:14

Tgt Ion:105 Resp: 25536

Ion Ratio Lower Upper

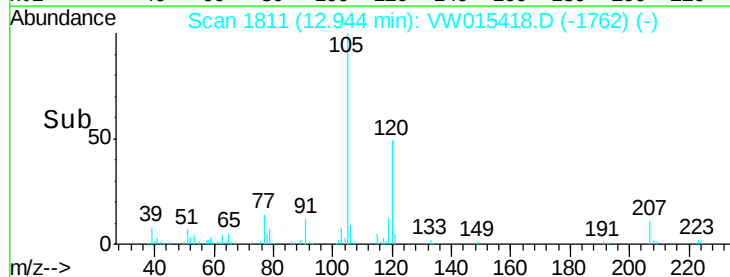
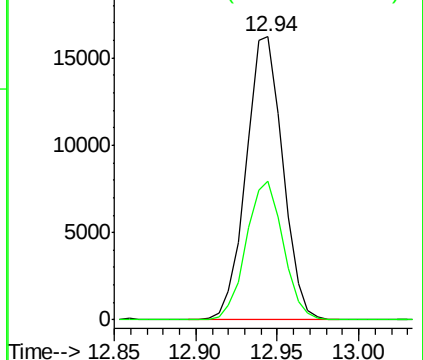
105 100

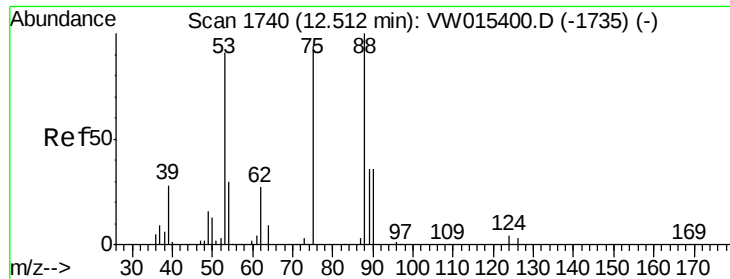
120 49.1 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

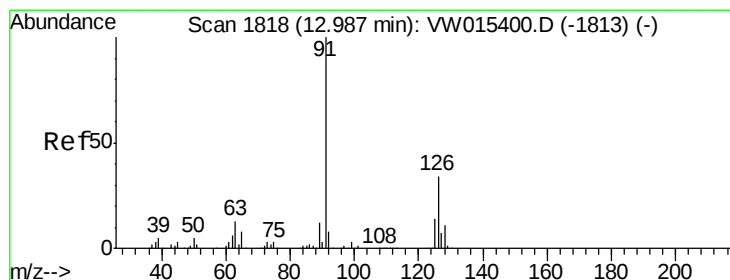
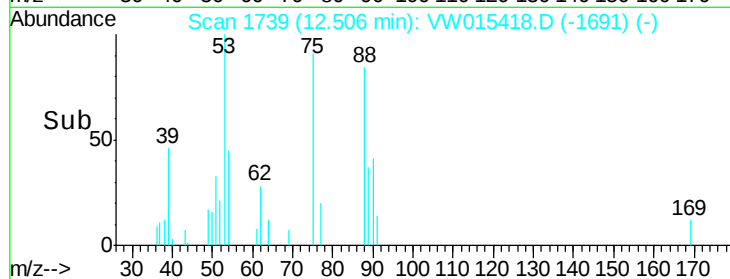
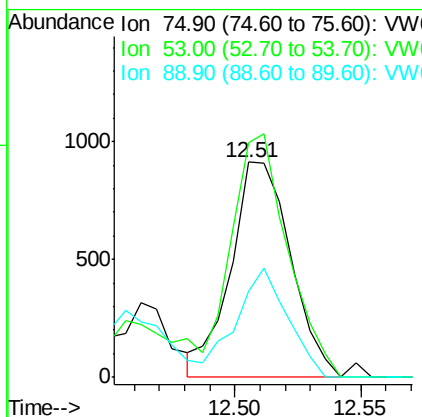
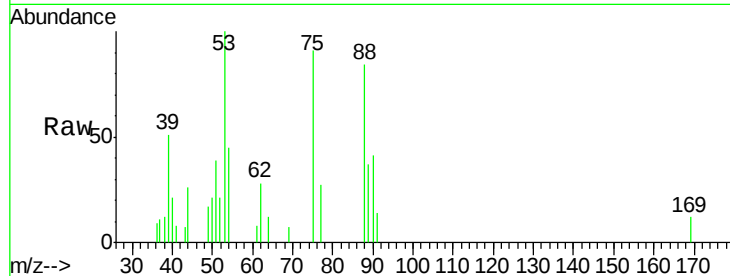




#81
trans-1,4-Dichloro-2-butene
Concen: 2.385 ug/l m
RT: 12.51 min Scan# 1739
Delta R.T. -0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

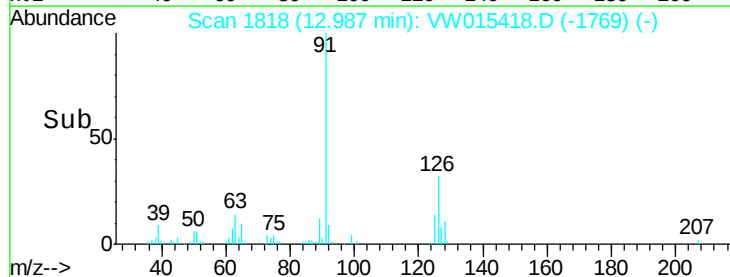
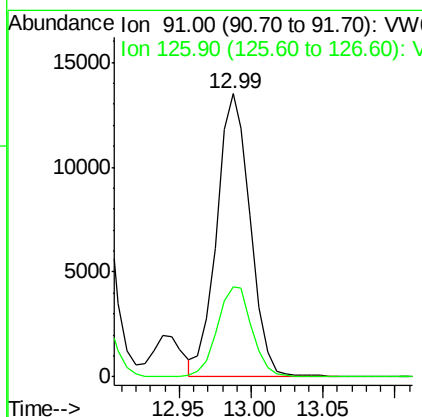
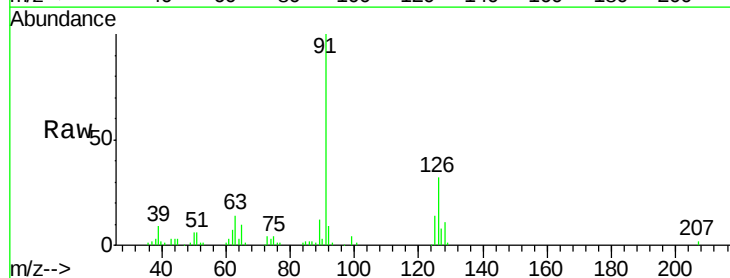
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

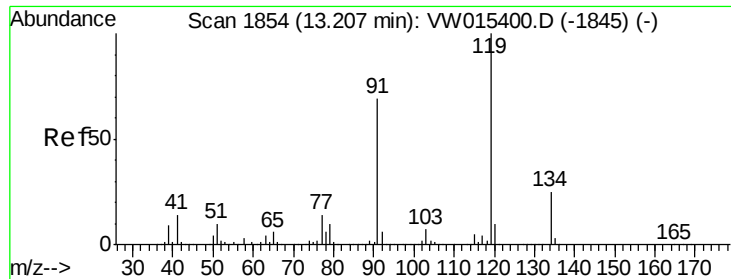
Tot Ion: 75 Resp: 1513
Ion Ratio Lower Upper
75 100
53 0.0 82.5 123.7#
89 25.0 35.8 53.8#



#82
4-Chlorotoluene
Concen: 2.687 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion: 91 Resp: 21933
Ion Ratio Lower Upper
91 100
126 33.0 16.0 47.9

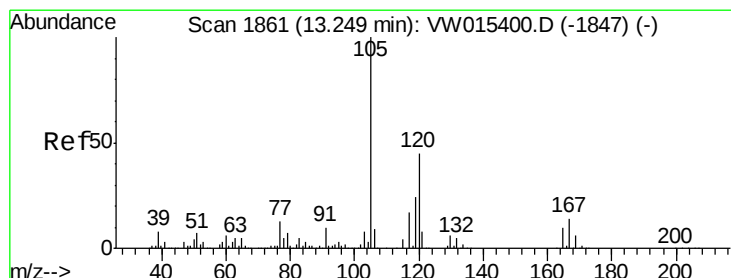
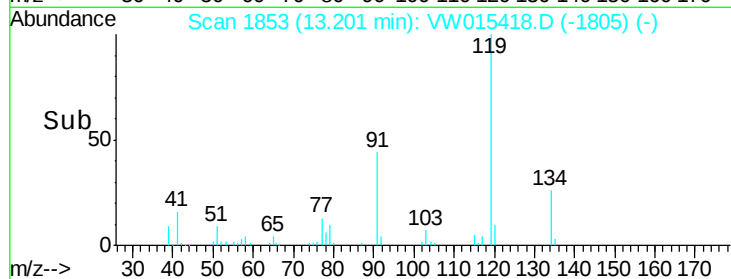
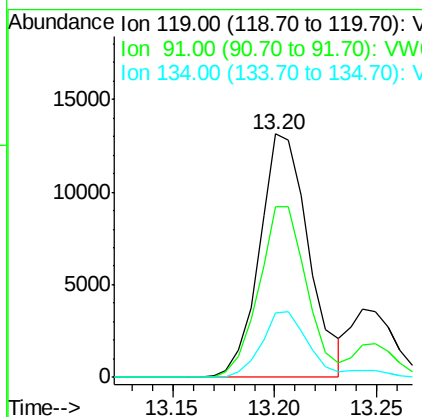
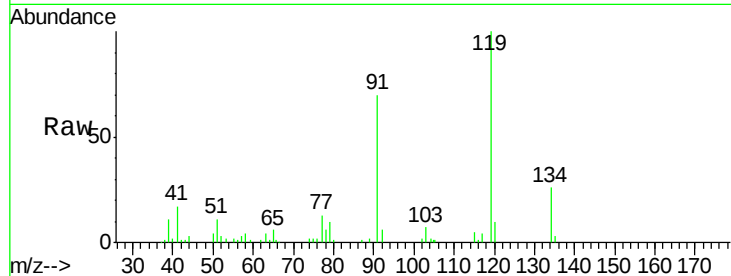




#83
tert-Butylbenzene
Concen: 2.698 ug/l
RT: 13.20 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

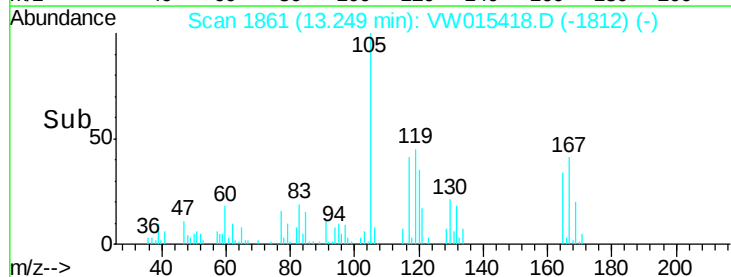
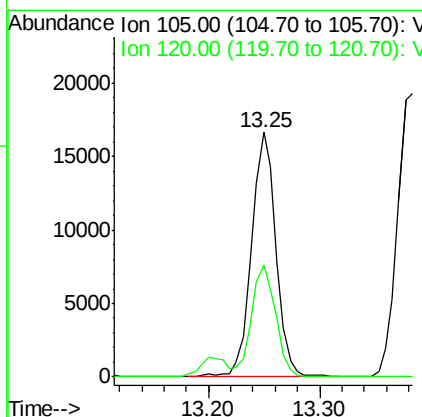
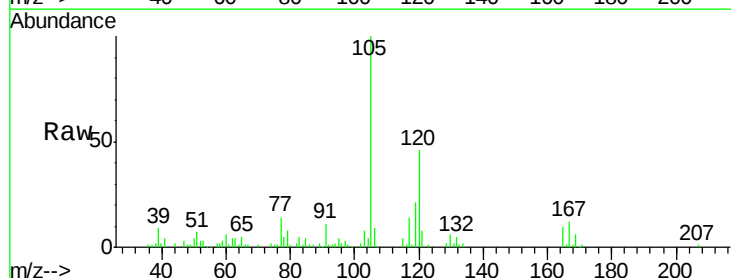
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

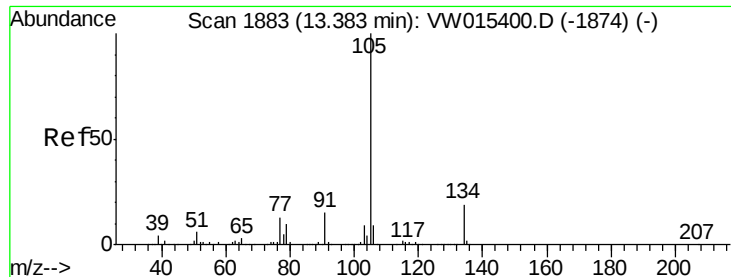
Tot Ion:119 Resp: 22086
Ion Ratio Lower Upper
119 100
91 68.0 33.8 101.4
134 27.4 12.3 36.9



#84
1,2,4-Trimethylbenzene
Concen: 2.651 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:105 Resp: 25445
Ion Ratio Lower Upper
105 100
120 45.2 22.0 66.0





#85

sec-Butylbenzene

Concen: 2.690 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

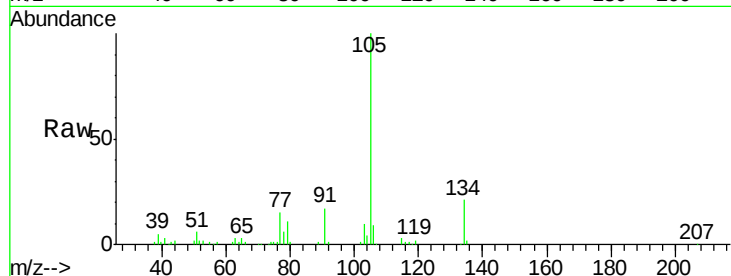
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 31027

Ion Ratio Lower Upper

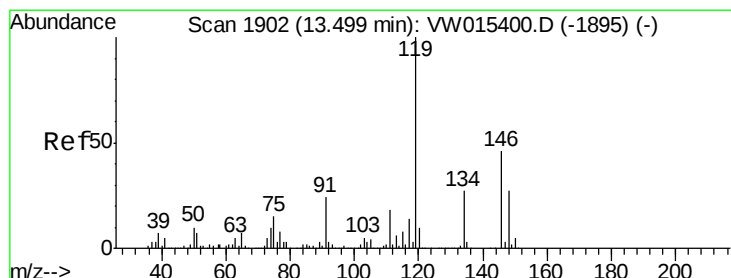
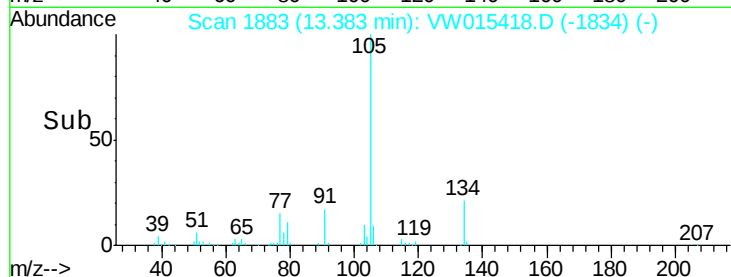
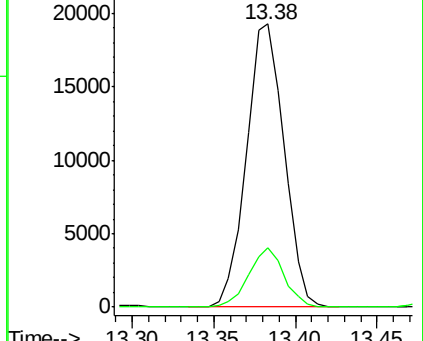
105 100

134 19.6 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.683 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

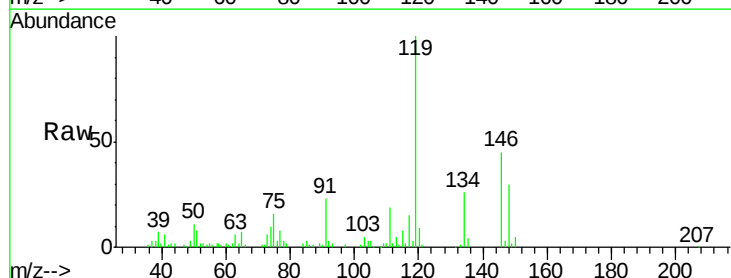
Tgt Ion:119 Resp: 28220

Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

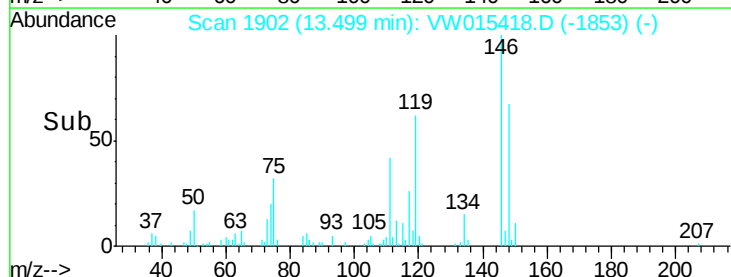
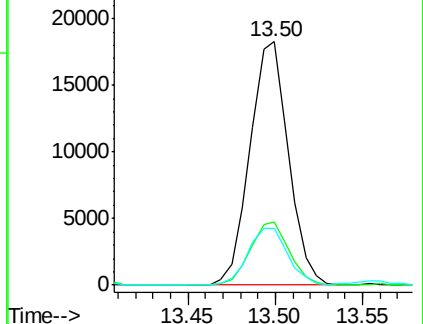
91 24.6 12.1 36.3

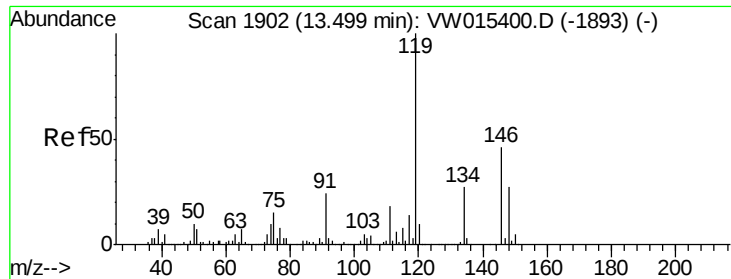


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

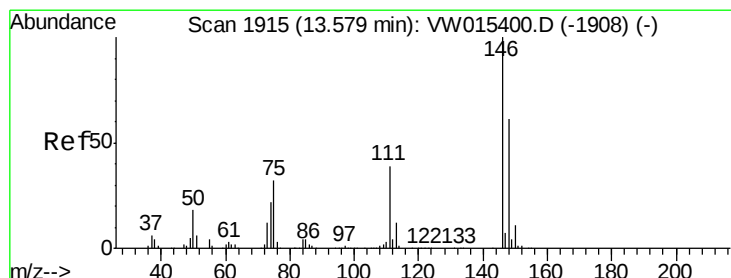
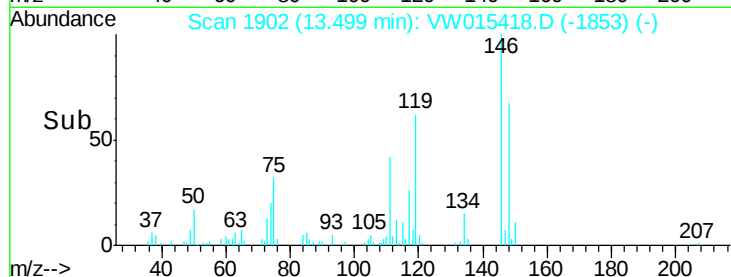
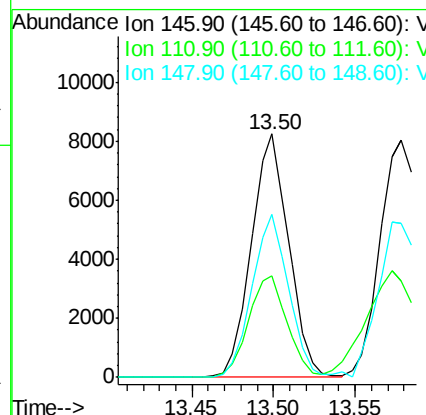
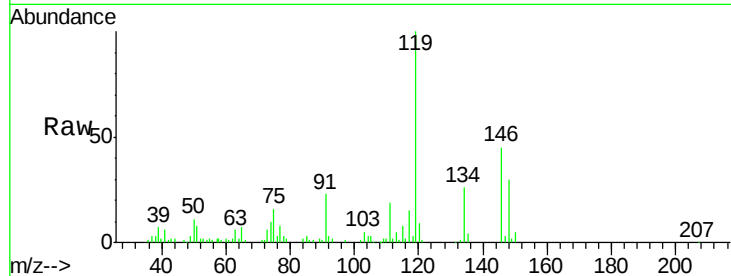




#87
 1,3-Dichlorobenzene
 Concen: 2.729 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

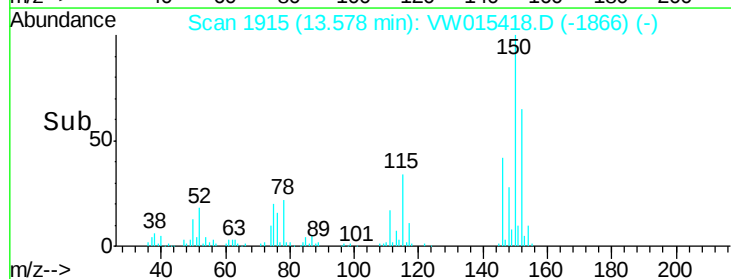
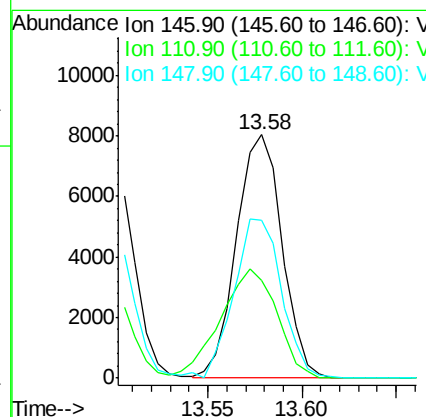
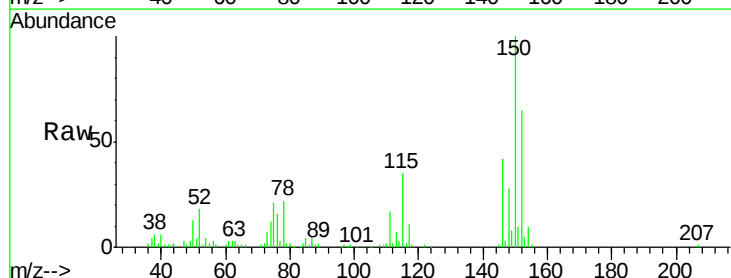
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

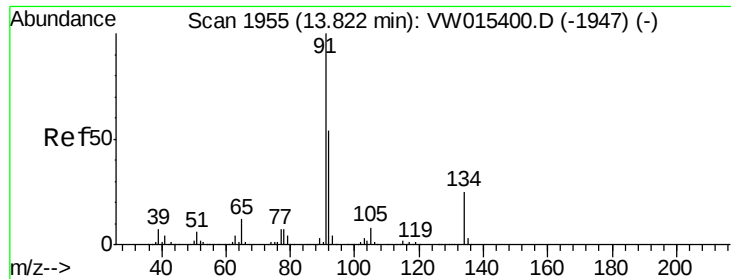
Tot Ion:146 Resp: 13118
 Ion Ratio Lower Upper
 146 100
 111 43.2 20.5 61.5
 148 65.6 31.4 94.0



#88
 1,4-Dichlorobenzene
 Concen: 2.837 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion:146 Resp: 13509
 Ion Ratio Lower Upper
 146 100
 111 55.6 20.0 60.0
 148 68.5 31.4 94.3





#89

n-Butylbenzene

Concen: 2.650 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

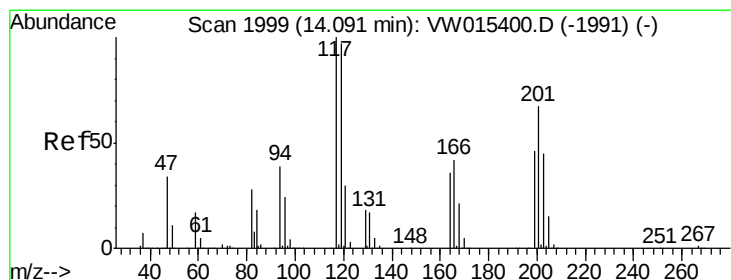
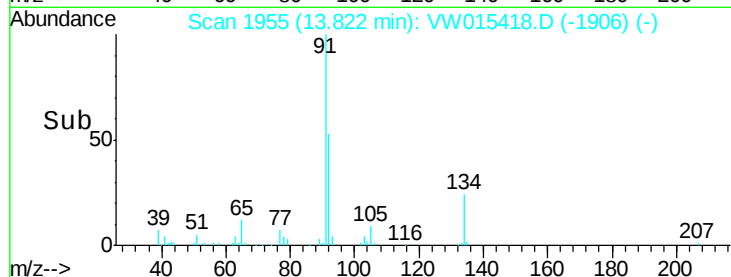
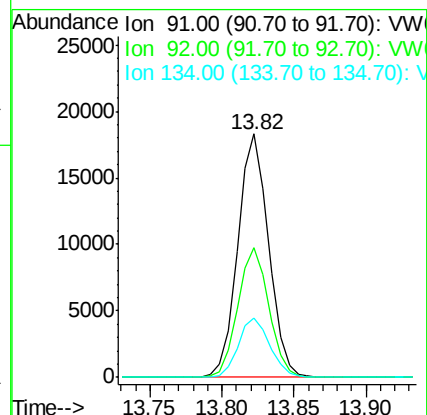
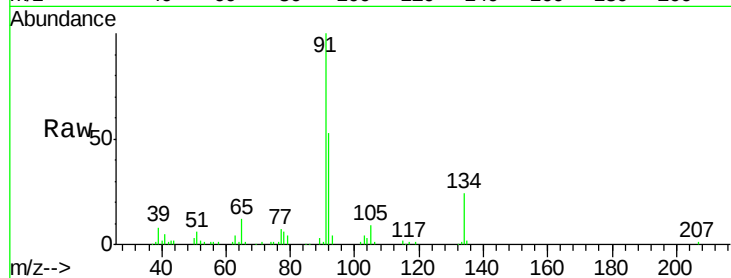
Tot Ion: 91 Resp: 27287

Ion Ratio Lower Upper

91 100

92 53.5 27.2 81.6

134 24.9 12.6 37.6



#90

Hexachloroethane

Concen: 2.679 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW015418.D

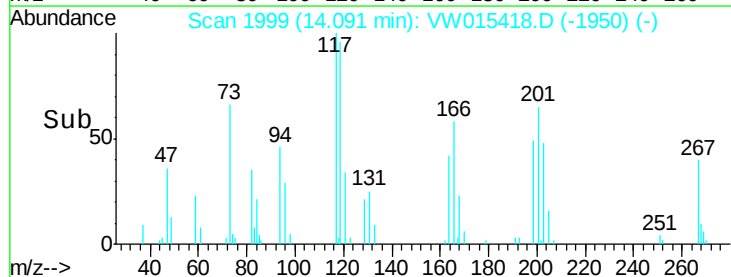
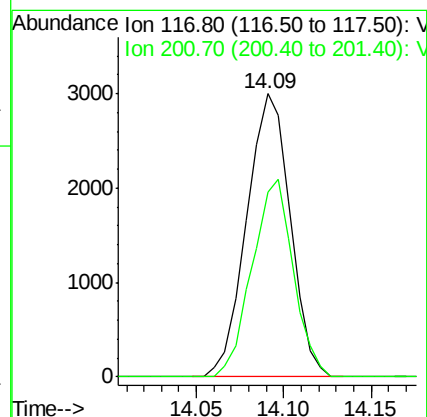
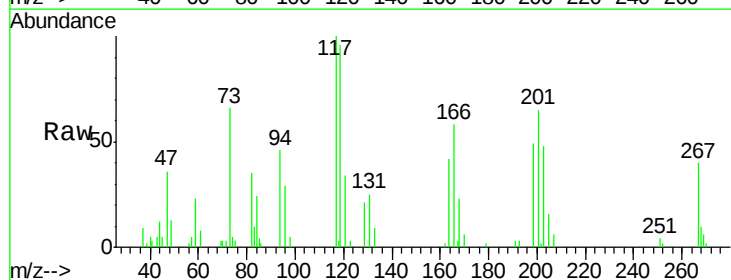
Acq: 07 May 2020 14:14

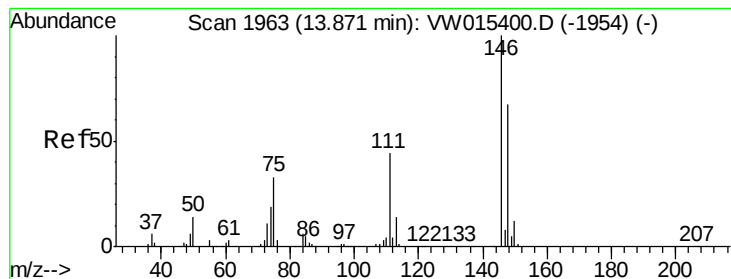
Tgt Ion: 117 Resp: 5192

Ion Ratio Lower Upper

117 100

201 66.0 35.9 107.8





#91

1,2-Dichlorobenzene

Concen: 2.775 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

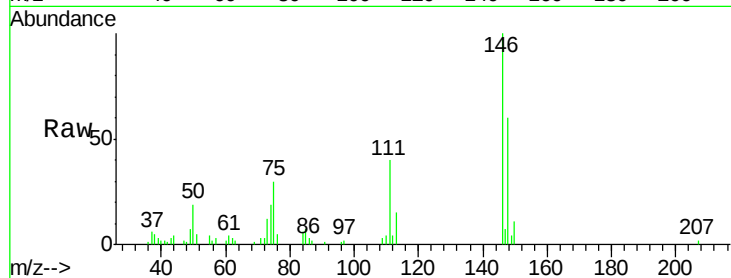
Tot Ion:146 Resp: 11549

Ion Ratio Lower Upper

146 100

111 43.8 22.1 66.3

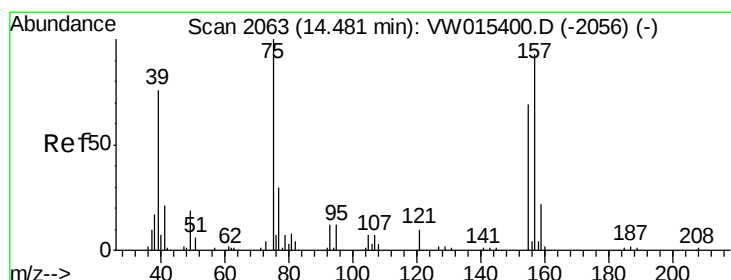
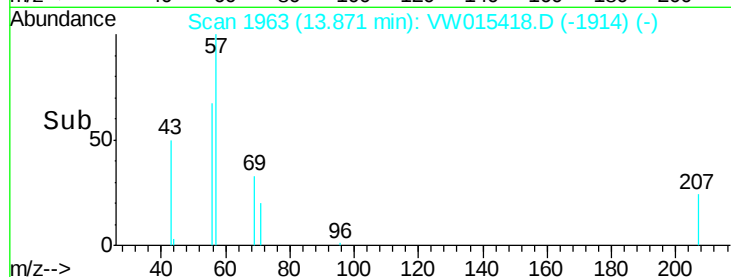
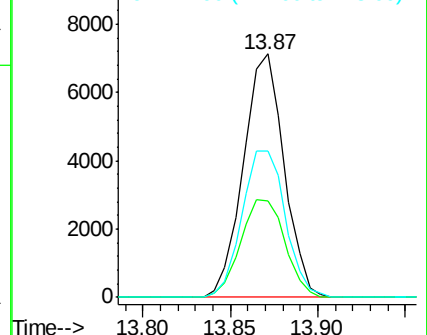
148 64.4 32.5 97.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.707 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW015418.D

Acq: 07 May 2020 14:14

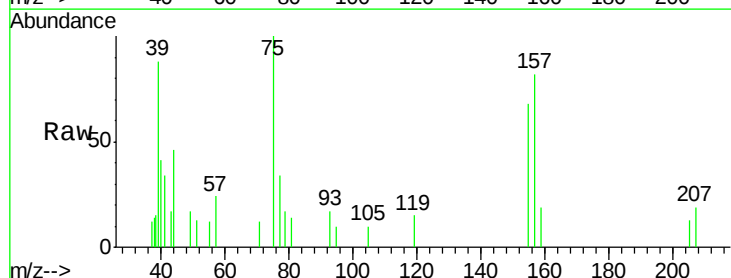
Tgt Ion: 75 Resp: 842

Ion Ratio Lower Upper

75 100

155 72.1 38.7 116.1

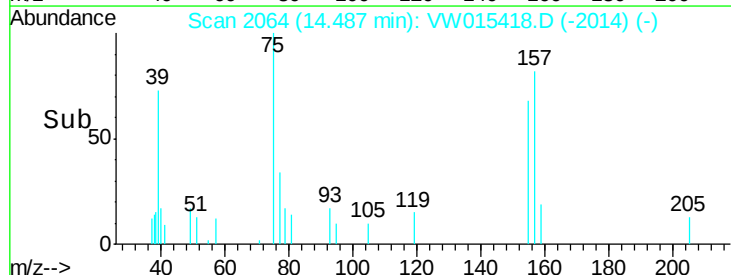
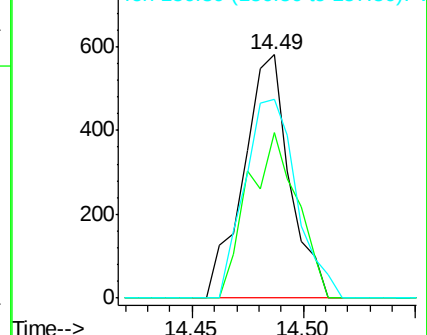
157 91.3 48.1 144.4

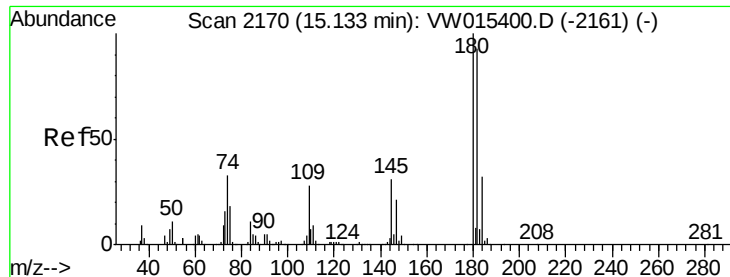


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

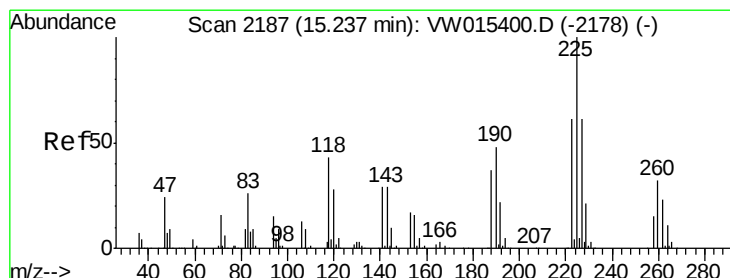
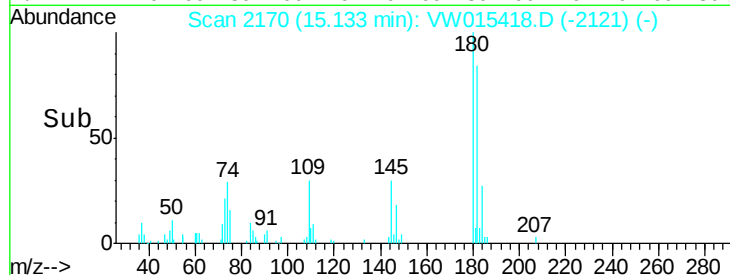
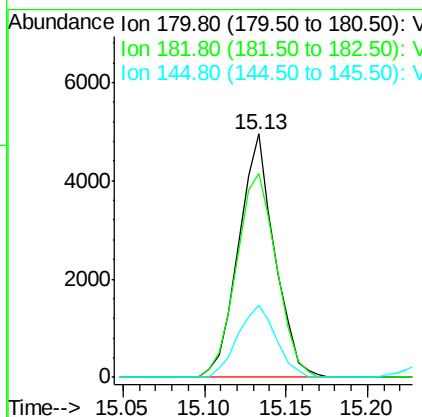
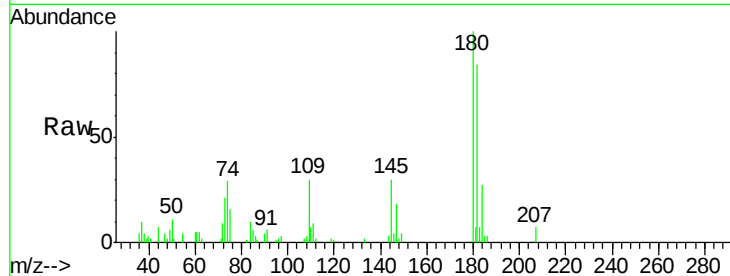




#93
 1,2,4-Trichlorobenzene
 Concen: 2.712 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

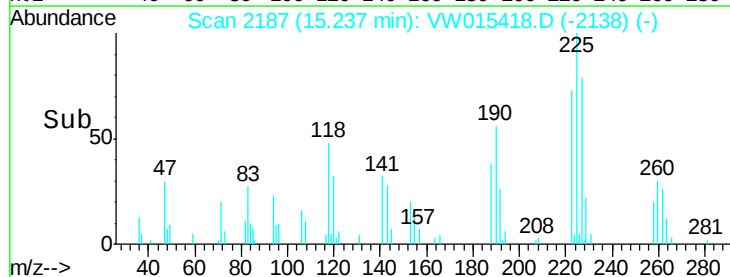
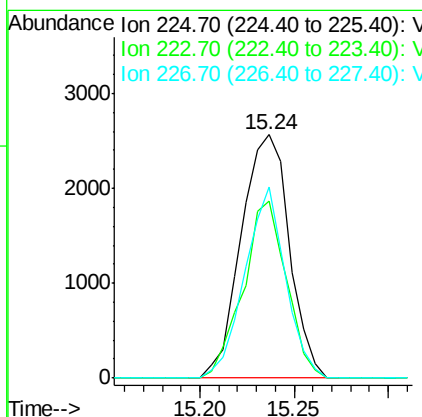
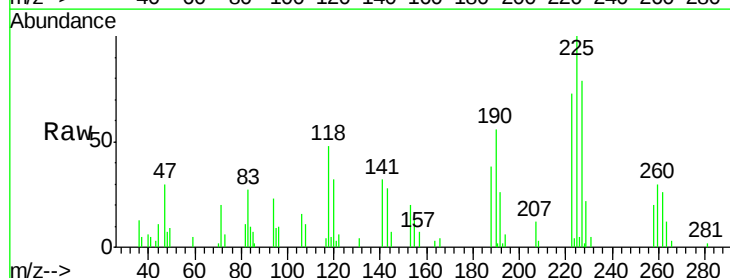
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

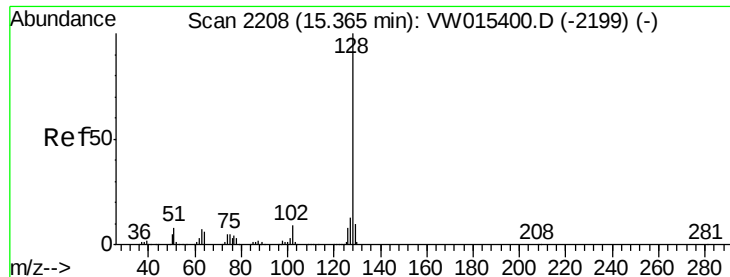
Tot Ion:180 Resp: 7586
 Ion Ratio Lower Upper
 180 100
 182 93.1 47.2 141.6
 145 31.7 15.6 46.8



#94
 Hexachlorobutadiene
 Concen: 2.732 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW015418.D
 Acq: 07 May 2020 14:14

Tgt Ion:225 Resp: 4529
 Ion Ratio Lower Upper
 225 100
 223 65.7 30.7 92.1
 227 66.4 32.0 96.0

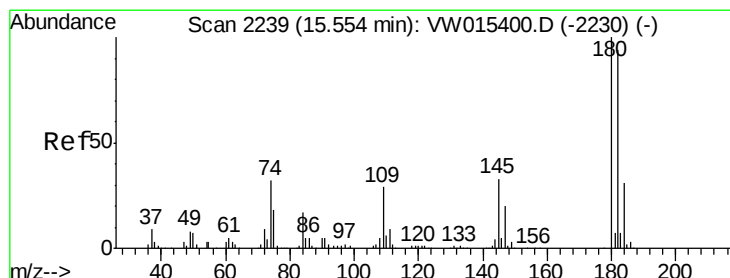
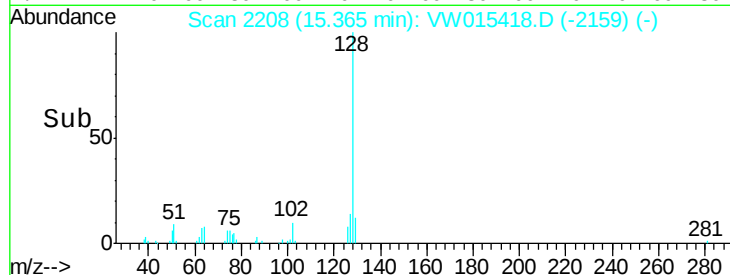
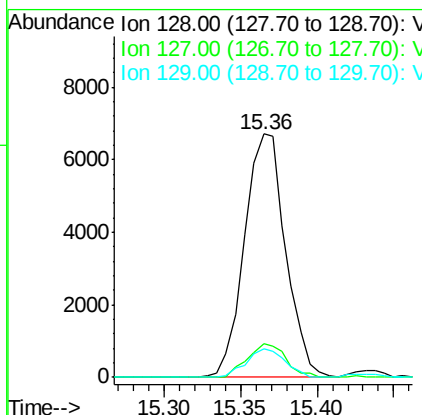
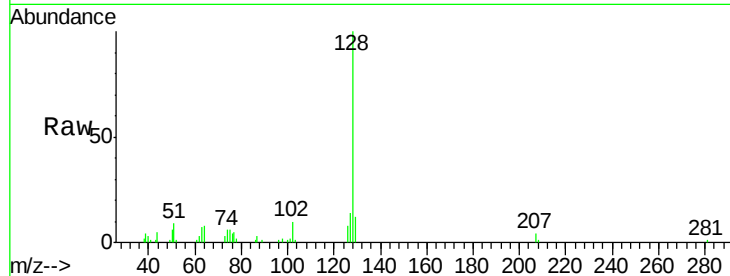




#95
Naphthalene
Concen: 2.505 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:128 Resp: 12551
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 11.0 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 2.807 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW015418.D
Acq: 07 May 2020 14:14

Tgt Ion:180 Resp: 6748
Ion Ratio Lower Upper
180 100
182 93.9 47.6 142.8
145 34.0 16.3 48.8

