

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070920\
 Data File : VW015827.D
 Acq On : 09 Jul 2020 14:40
 Operator : SY/VA
 Sample : L3216-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Quant Time: Jul 10 07:50:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070720S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 07:44:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	190398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	317542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	288873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	141281	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	98147	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	7.89	113	86483	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	
50) Toluene-d8	10.33	98	336363	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
62) 4-Bromofluorobenzene	12.62	95	121421	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	5007	4.993	ug/l	94
3) Chloromethane	2.22	50	7103	5.216	ug/l	100
4) Vinyl Chloride	2.37	62	9986	4.749	ug/l	96
5) Bromomethane	2.78	94	7765	4.826	ug/l	99
6) Chloroethane	2.93	64	6581	4.638	ug/l	88
7) Trichlorofluoromethane	3.26	101	6672	4.415	ug/l	100
8) Diethyl Ether	3.68	74	4476	4.754	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.07	101	8750	4.947	ug/l	94
10) Methyl Iodide	4.28	142	11465	4.636	ug/l	99
11) Tert butyl alcohol	5.18	59	5765	52.656	ug/l #	87
12) 1,1-Dichloroethene	4.04	96	8081	4.646	ug/l	94
13) Acrolein	3.89	56	2681	19.712	ug/l	91
14) Allyl chloride	4.67	41	12632	4.469	ug/l	99
15) Acrylonitrile	5.37	53	8622	23.422	ug/l	99
16) Acetone	4.13	43	10513	28.657	ug/l	96
17) Carbon Disulfide	4.39	76	22411	4.332	ug/l	99
18) Methyl Acetate	4.68	43	4846	5.805	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	12124	4.658	ug/l #	89
20) Methylene Chloride	4.92	84	17604	8.263	ug/l	98
21) trans-1,2-Dichloroethene	5.43	96	9017	4.476	ug/l	97
22) Diisopropyl ether	6.32	45	24941	4.378	ug/l #	91
23) Vinyl Acetate	6.26	43	67828	20.019	ug/l	97
24) 1,1-Dichloroethane	6.22	63	16855	4.673	ug/l	97
25) 2-Butanone	7.18	43	14043	28.201	ug/l	92
26) 2,2-Dichloropropane	7.17	77	12810	5.662	ug/l	90
27) cis-1,2-Dichloroethene	7.17	96	9581	4.430	ug/l	84
28) Bromochloromethane	7.52	49	5912	4.135	ug/l	100
29) Tetrahydrofuran	7.54	42	7003	23.175	ug/l	98
30) Chloroform	7.68	83	17275	4.686	ug/l	96
31) Cyclohexane	7.96	56	18712	5.513	ug/l #	82
32) 1,1,1-Trichloroethane	7.88	97	14406	4.660	ug/l	99
36) 1,1-Dichloropropene	8.09	75	13697	4.376	ug/l	98
37) Ethyl Acetate	7.26	43	5886	4.839	ug/l	99
38) Carbon Tetrachloride	8.07	117	12695	4.191	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	15065	4.079	ug/l	97
40) Benzene	8.33	78	37394	4.361	ug/l	99
41) Methacrylonitrile	7.49	41	2619	3.793	ug/l #	90
42) 1,2-Dichloroethane	8.40	62	12029	4.507	ug/l	98
43) Isopropyl Acetate	8.43	43	10103	4.255	ug/l	97
44) Trichloroethene	9.10	130	10185	4.491	ug/l	97
45) 1,2-Dichloropropane	9.37	63	9067	4.302	ug/l	94
46) Dibromomethane	9.46	93	4718	4.348	ug/l	98
47) Bromodichloromethane	9.65	83	11622	4.141	ug/l	99
48) Methyl methacrylate	9.44	41	4315	3.966	ug/l	96
49) 1,4-Dioxane	9.45	88	1151	85.800	ug/l #	84
51) 4-Methyl-2-Pentanone	10.21	43	23975	20.695	ug/l	98
52) Toluene	10.39	92	23905	4.332	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	9990	3.710	ug/l	98
54) cis-1,3-Dichloropropene	10.08	75	12246	3.802	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	6562	4.361	ug/l	94
56) Ethyl methacrylate	10.65	69	6881	3.720	ug/l	95
57) 1,3-Dichloropropane	10.94	76	11423	4.289	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.93	63	16954	18.758	ug/l	99
59) 2-Hexanone	10.97	43	15827	20.471	ug/l	97
60) Dibromochloromethane	11.13	129	6590	3.792	ug/l	98
61) 1,2-Dibromoethane	11.24	107	6100	4.237	ug/l	98
64) Tetrachloroethene	10.87	164	8263	4.520	ug/l	98
65) Chlorobenzene	11.66	112	25428	4.501	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	8226	4.115	ug/l	98
67) Ethyl Benzene	11.74	91	44160	4.221	ug/l	98
68) m/p-Xylenes	11.84	106	32499	8.270	ug/l	98
69) o-Xylene	12.17	106	14570	4.062	ug/l	100
70) Styrene	12.18	104	23506	3.808	ug/l	97
71) Bromoform	12.35	173	3461	3.793	ug/l #	100
73) Isopropylbenzene	12.47	105	40528	4.072	ug/l	97
74) N-amyl acetate	12.27	43	8218	3.859	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	7384	4.465	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	6386m	5.143	ug/l	
77) Bromobenzene	12.75	156	9682	4.338	ug/l	96
78) n-propylbenzene	12.80	91	51086	4.229	ug/l	99
79) 2-Chlorotoluene	12.90	91	28989	4.208	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	34179	4.029	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	1599m	3.291	ug/l	
82) 4-Chlorotoluene	12.99	91	30660	4.262	ug/l	99
83) tert-Butylbenzene	13.21	119	28181	4.002	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	34860	4.115	ug/l	95
85) sec-Butylbenzene	13.38	105	42156	4.145	ug/l	99
86) p-Isopropyltoluene	13.50	119	36818	3.964	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	18755	4.192	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	19001	4.339	ug/l	89
89) n-Butylbenzene	13.83	91	36000	4.050	ug/l	96
90) Hexachloroethane	14.10	117	6646	3.948	ug/l	100
91) 1,2-Dichlorobenzene	13.88	146	16651	4.296	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1092	4.133	ug/l	87

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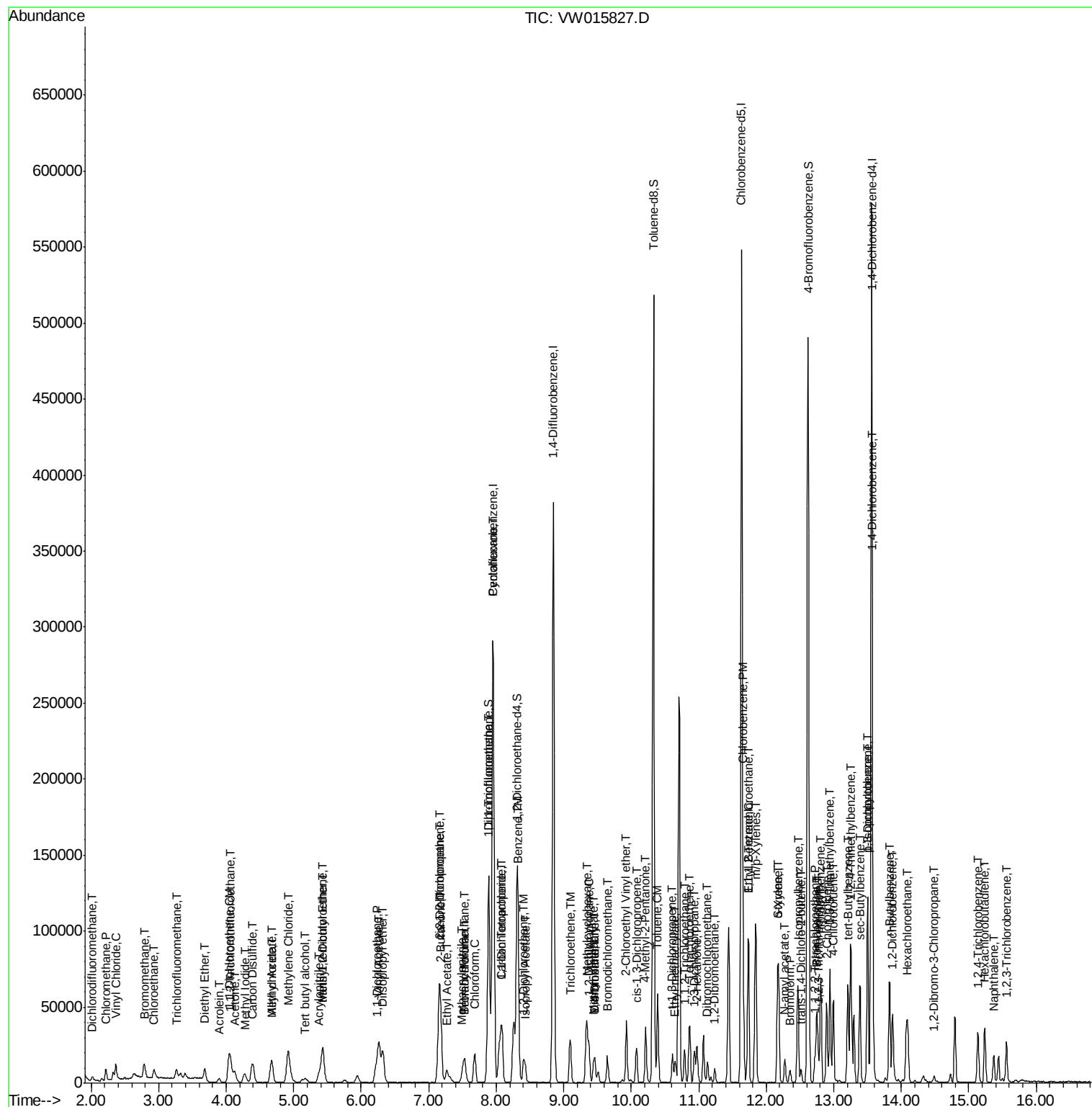
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	9659	3.953	ug/l	99
94) Hexachlorobutadiene	15.24	225	6416	4.136	ug/l	96
95) Naphthalene	15.37	128	14615	3.578	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	8375	4.028	ug/l	98

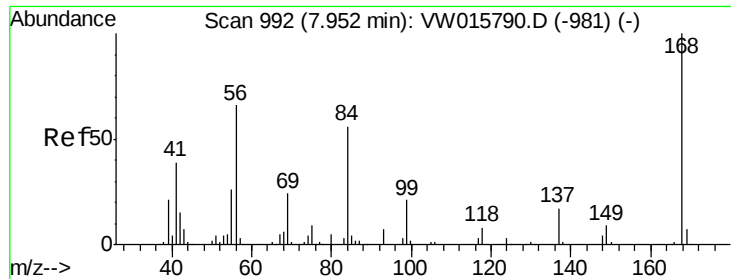
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

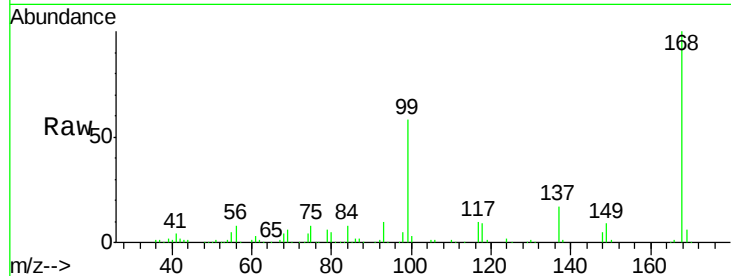
MDL-SOIL-03-QT3-2020DL

Tot Ion:168 Resp: 190398

Ion Ratio Lower Upper

168 100

99 57.7 47.8 71.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

80000

60000

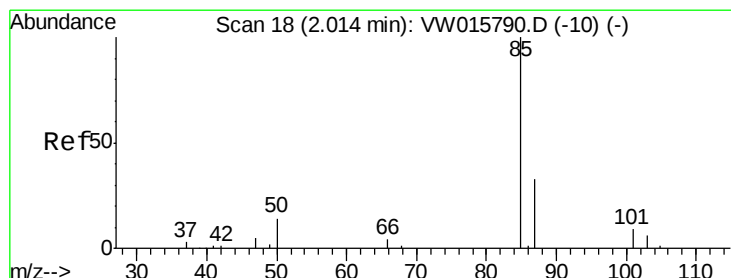
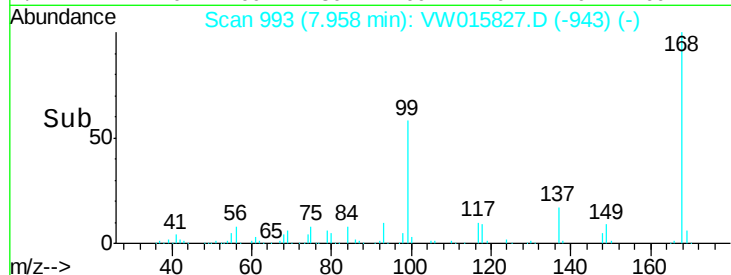
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 4.993 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015827.D

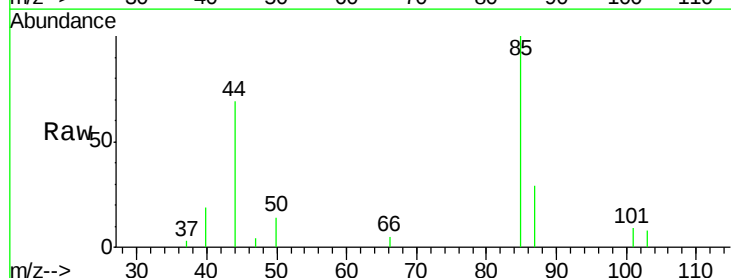
Acq: 09 Jul 2020 14:40

Tgt Ion: 85 Resp: 5007

Ion Ratio Lower Upper

85 100

87 29.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

1500

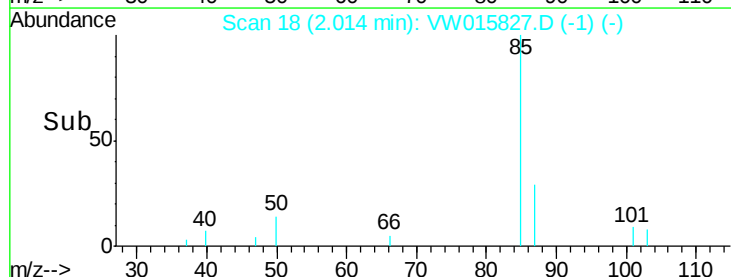
1000

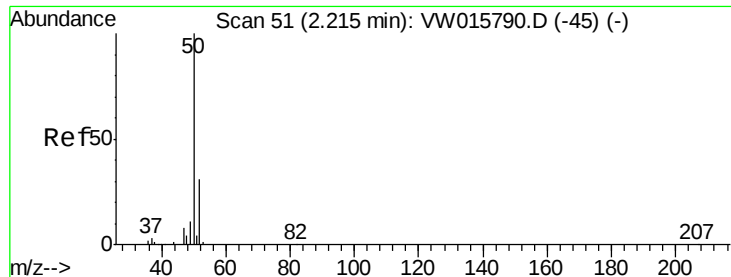
500

0

2.00 2.10

Time-->





#3

Chloromethane

Concen: 5.216 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

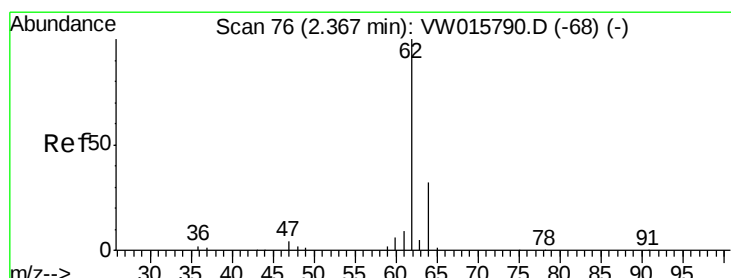
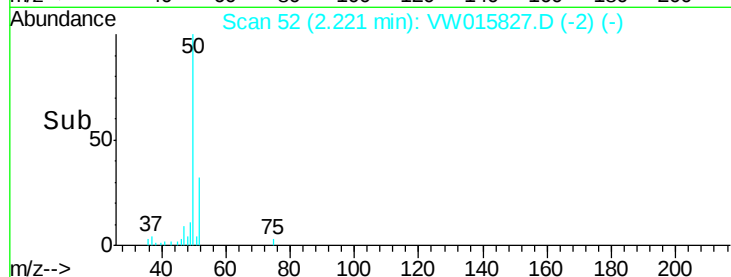
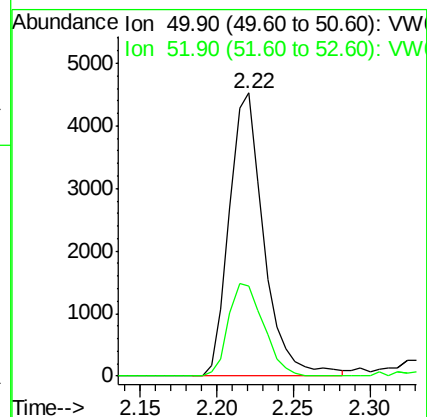
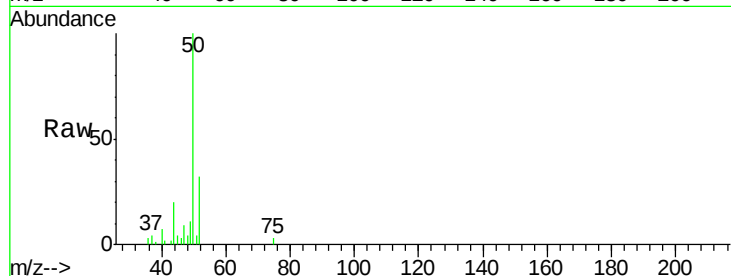
MDL-SOIL-03-QT3-2020DL

Tot Ion: 50 Resp: 7103

Ion Ratio Lower Upper

50 100

52 31.7 25.2 37.8



#4

Vinyl Chloride

Concen: 4.749 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015827.D

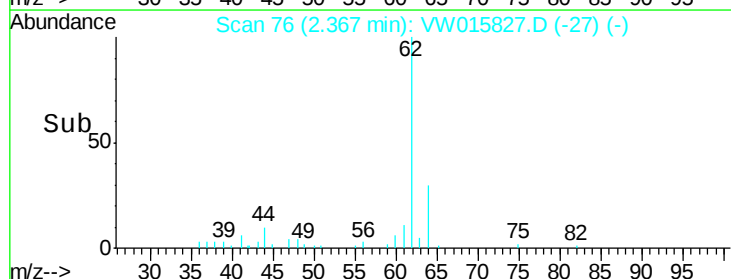
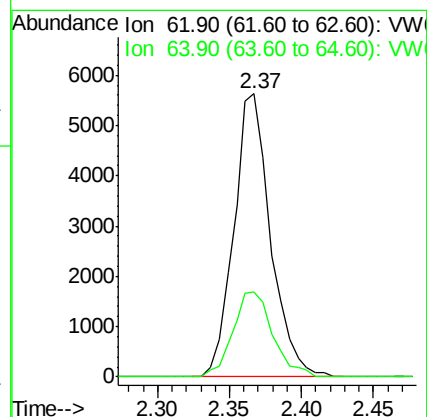
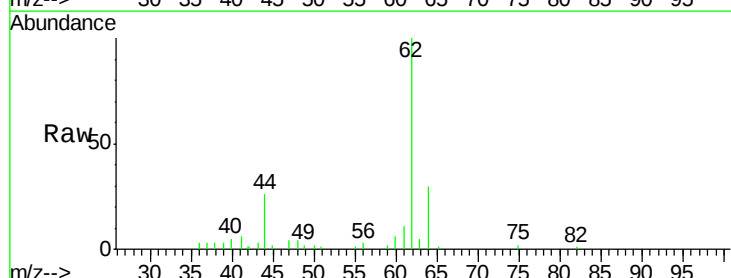
Acq: 09 Jul 2020 14:40

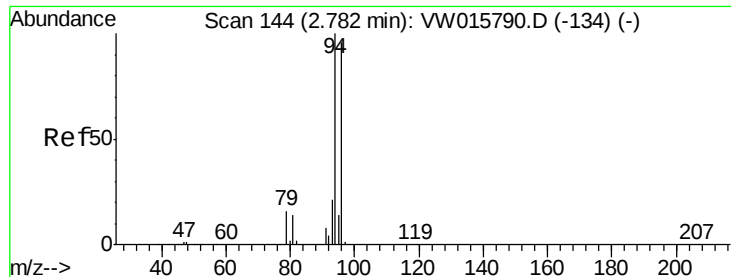
Tgt Ion: 62 Resp: 9986

Ion Ratio Lower Upper

62 100

64 30.0 25.8 38.8





#5

Bromomethane

Concen: 4.826 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

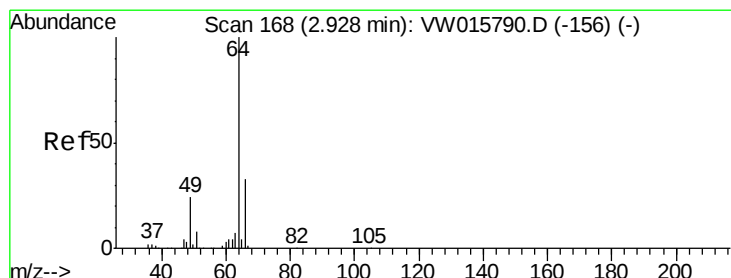
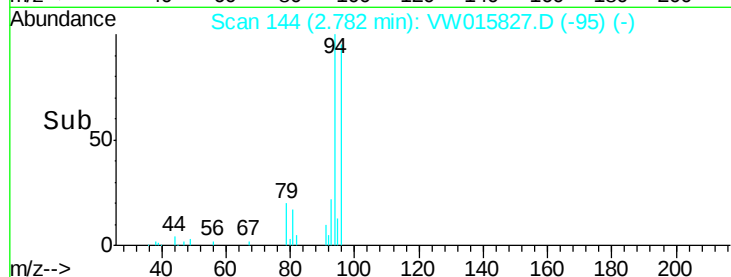
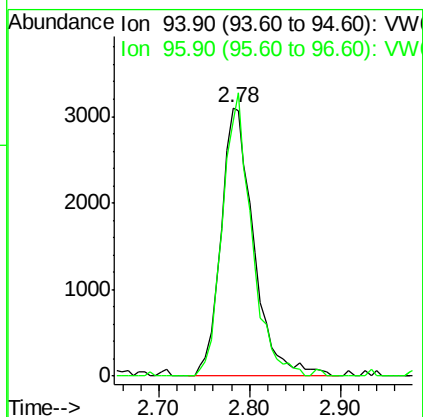
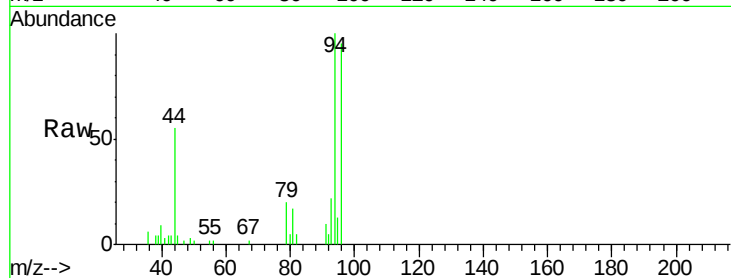
MDL-SOIL-03-QT3-2020DL

Tot Ion: 94 Resp: 7765

Ion Ratio Lower Upper

94 100

96 95.0 76.7 115.1



#6

Chloroethane

Concen: 4.638 ug/l

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW015827.D

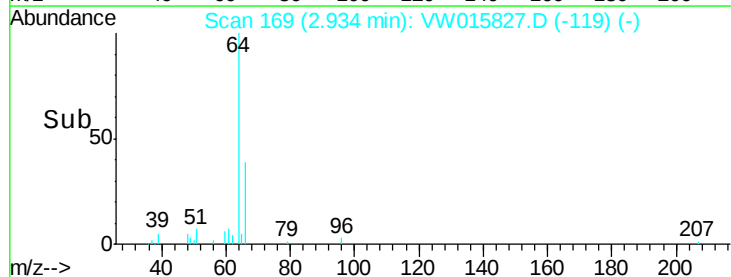
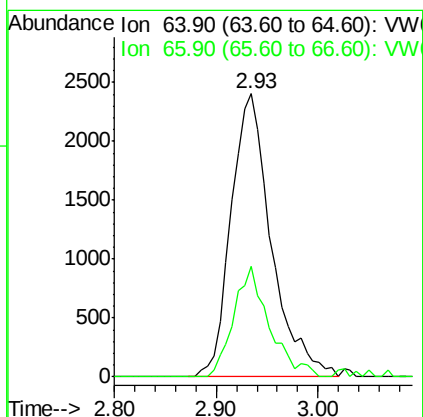
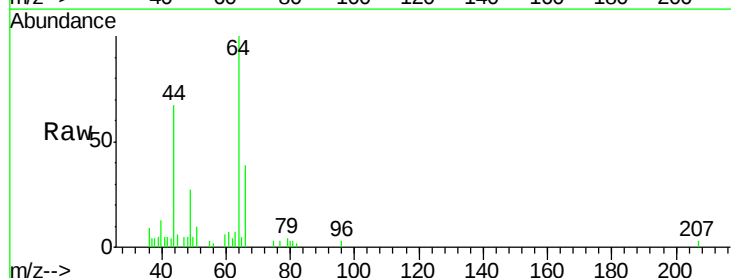
Acq: 09 Jul 2020 14:40

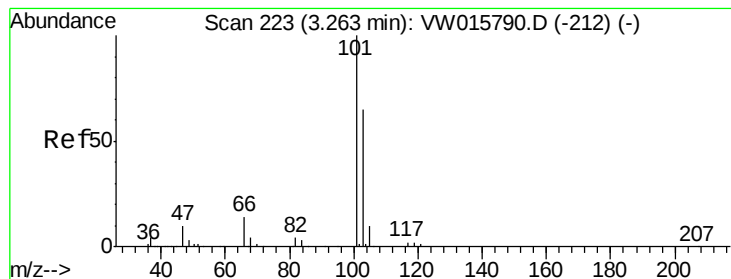
Tgt Ion: 64 Resp: 6581

Ion Ratio Lower Upper

64 100

66 39.0 26.0 39.0



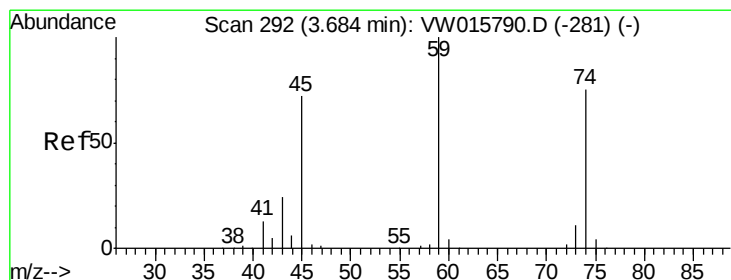
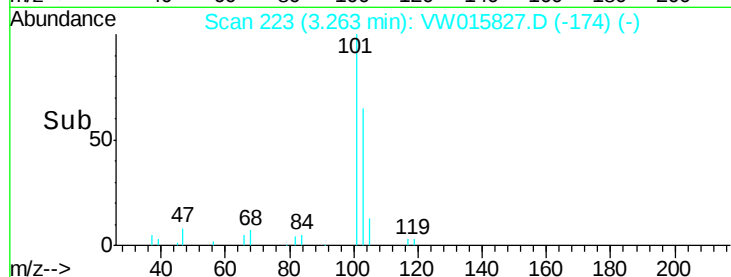
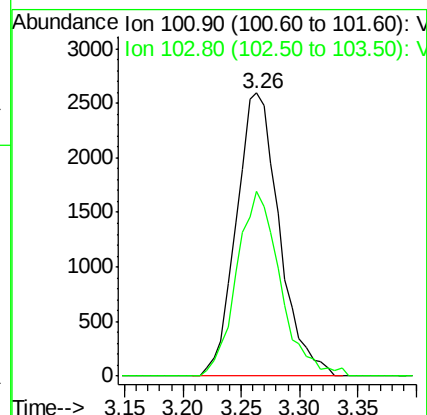
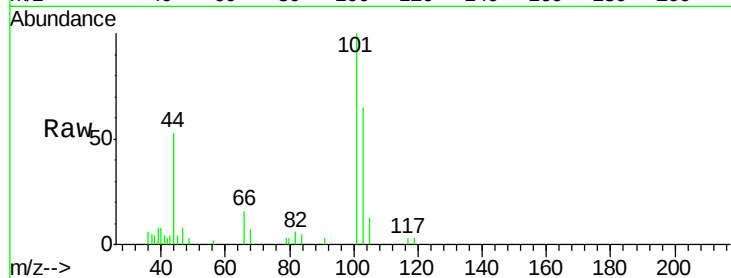


#7

Trichlorofluoromethane
 Concen: 4.415 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Instrument :
 MSVOA_W
 ClientSampleId :
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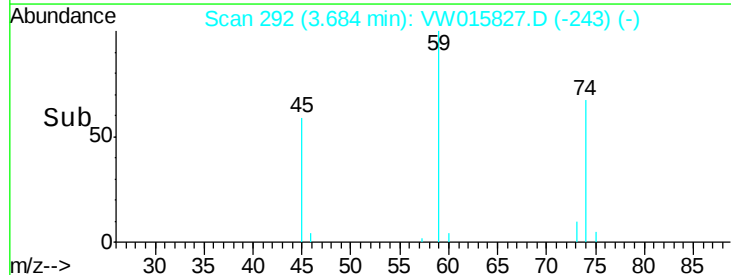
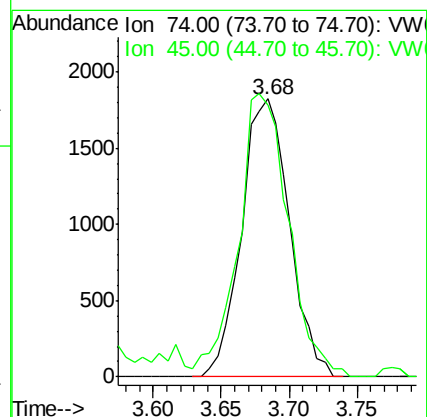
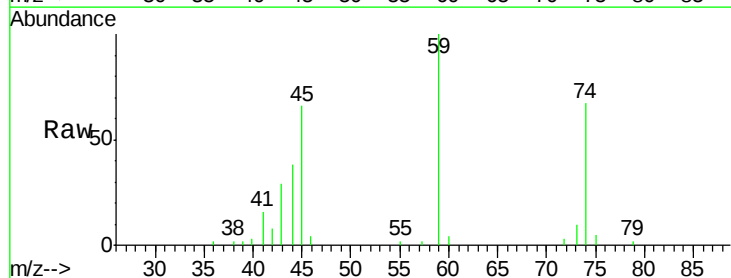
Tot Ion:101 Resp: 6672
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.2 78.4

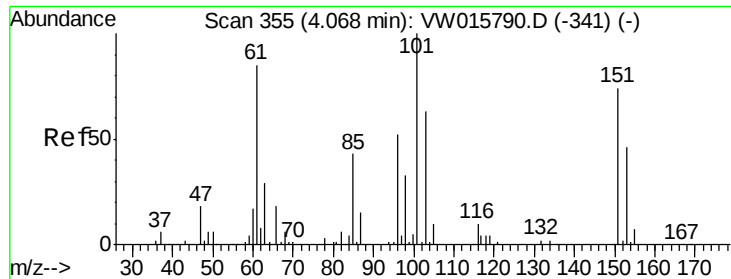


#8

Diethyl Ether
 Concen: 4.754 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 74 Resp: 4476
 Ion Ratio Lower Upper
 74 100
 45 106.6 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.947 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

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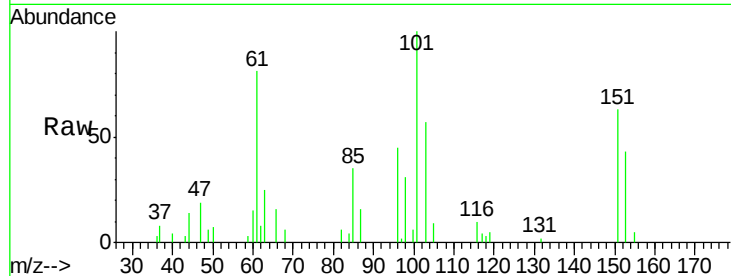
Tot Ion:101 Resp: 8750

Ion Ratio Lower Upper

101 100

85 42.6 36.1 54.1

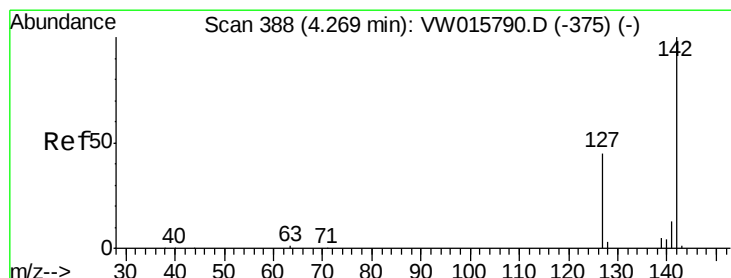
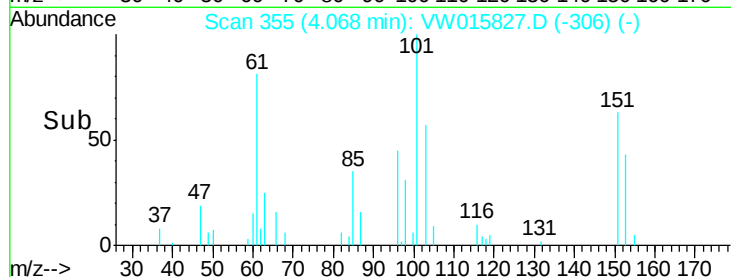
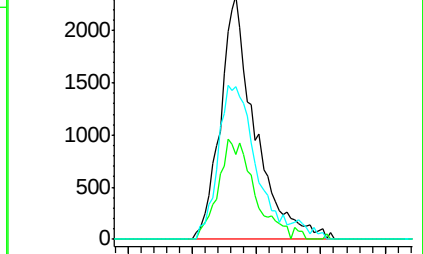
151 69.0 60.3 90.5



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: 4.636 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

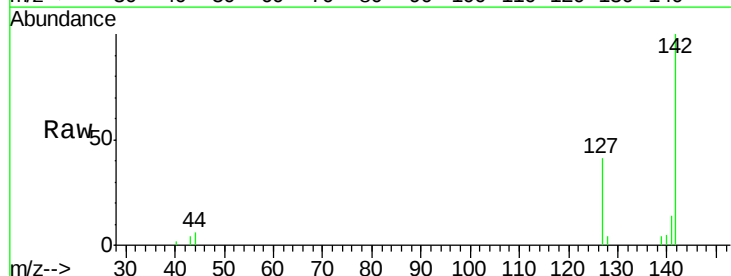
Tgt Ion:142 Resp: 11465

Ion Ratio Lower Upper

142 100

127 45.5 36.1 54.1

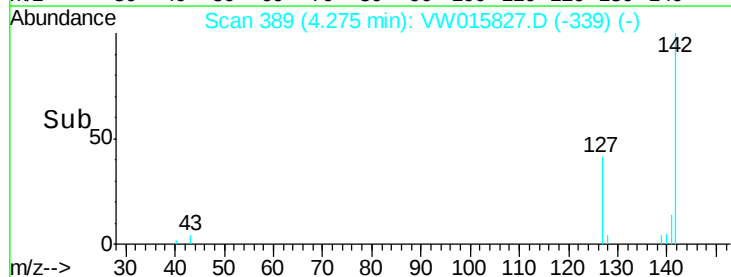
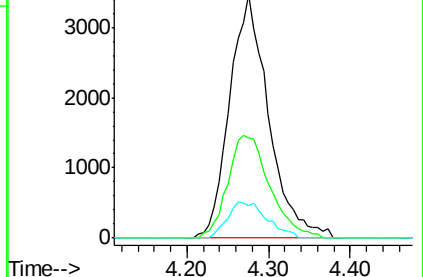
141 15.0 11.7 17.5

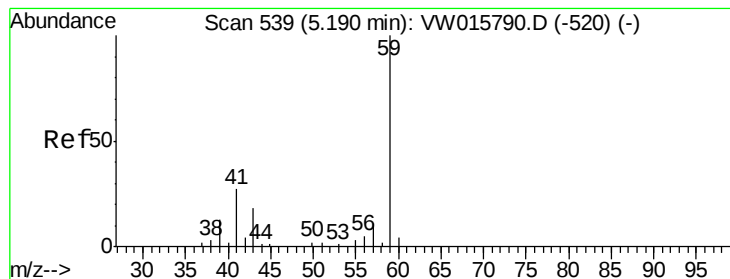


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



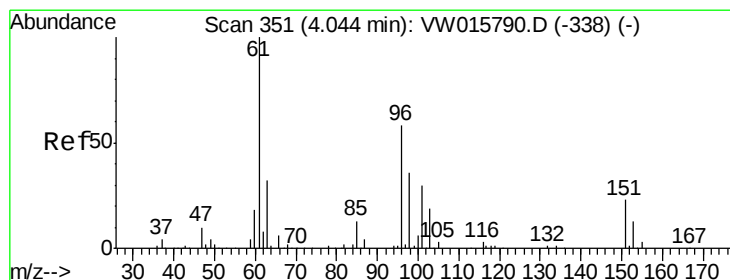
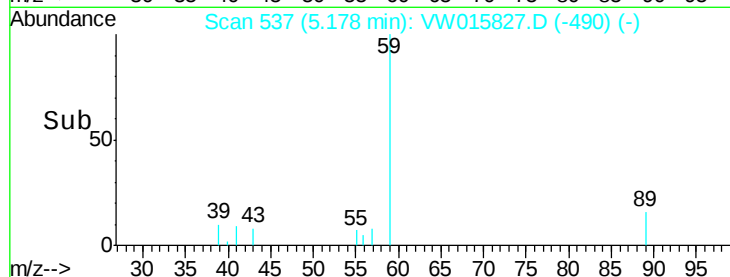
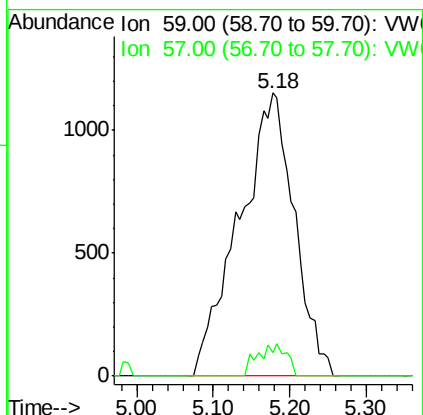
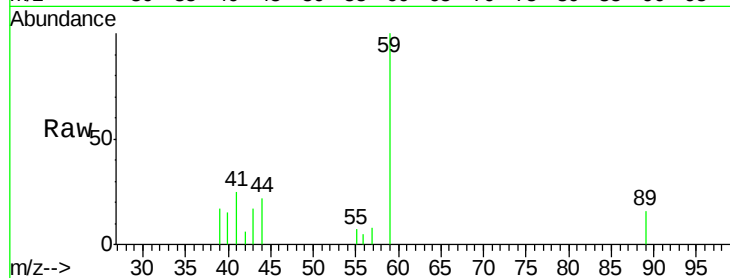


#11

Tert butyl alcohol
 Concen: 52.656 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Instrument :
 MSVOA_W
 ClientSampleID :
 MDL-SOIL-03-QT3-2020DL

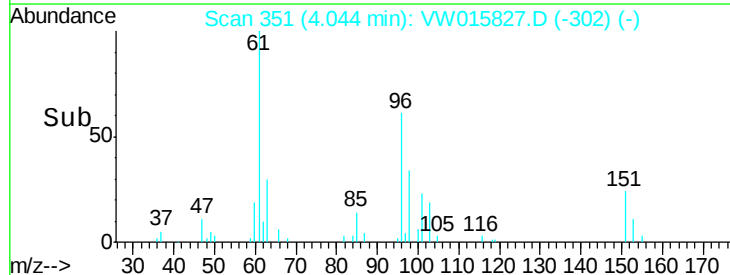
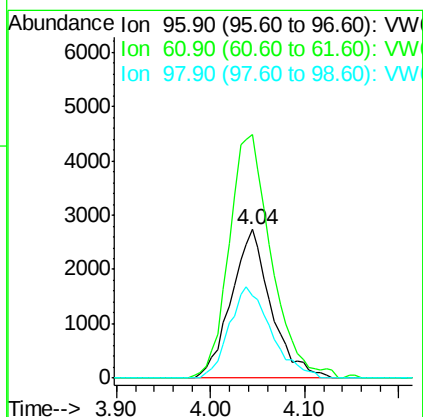
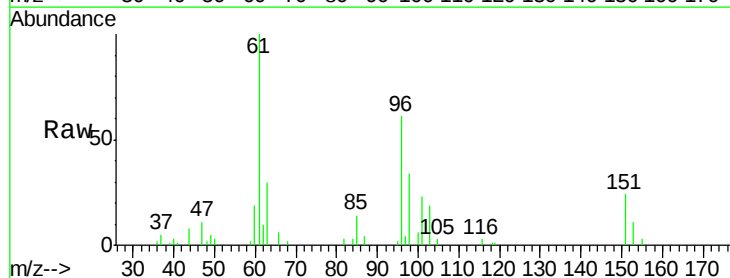
Tot Ion: 59 Resp: 5765
 Ion Ratio Lower Upper
 59 100
 57 5.8 8.7 13.1#

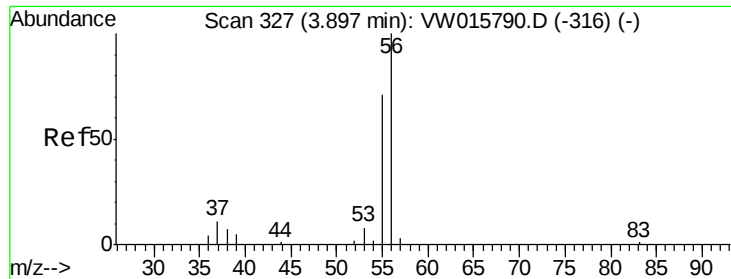


#12

1,1-Dichloroethene
 Concen: 4.646 ug/l
 RT: 4.04 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 96 Resp: 8081
 Ion Ratio Lower Upper
 96 100
 61 164.0 137.0 205.4
 98 55.6 49.3 73.9





#13

Acrolein

Concen: 19.712 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

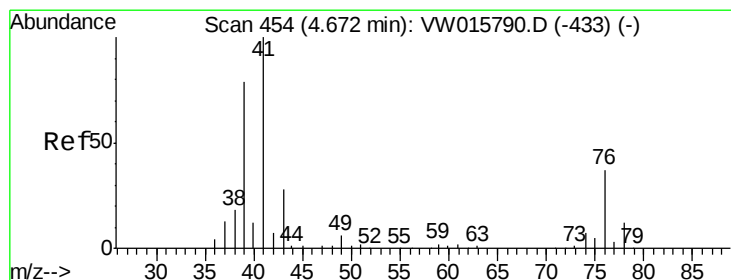
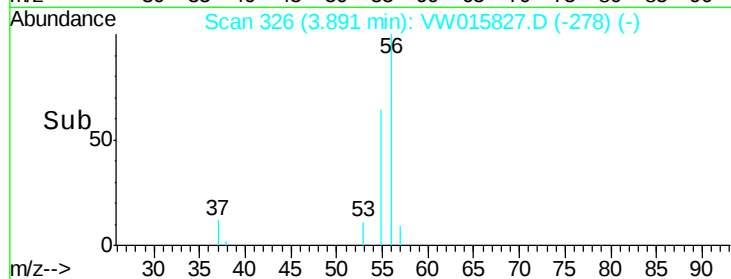
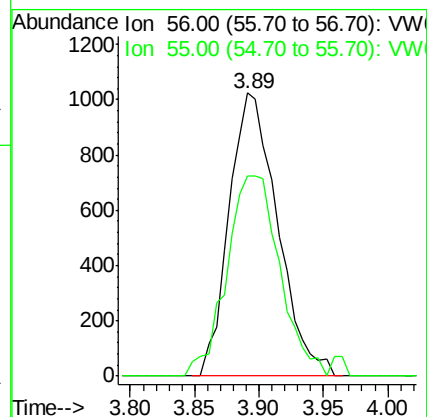
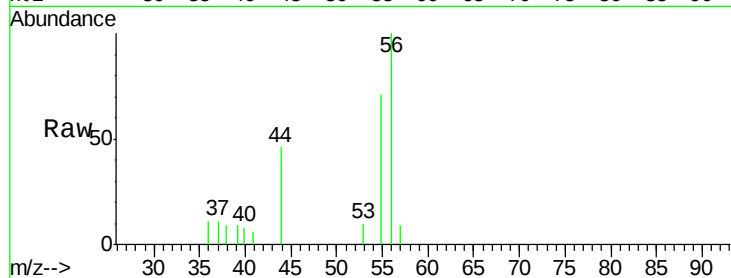
MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 2681

Ion Ratio Lower Upper

56 100

55 77.4 55.8 83.6



#14

Allyl chloride

Concen: 4.469 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

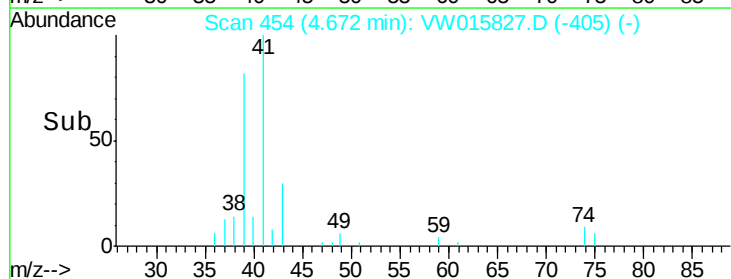
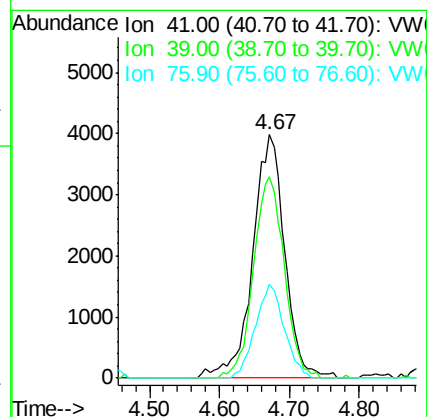
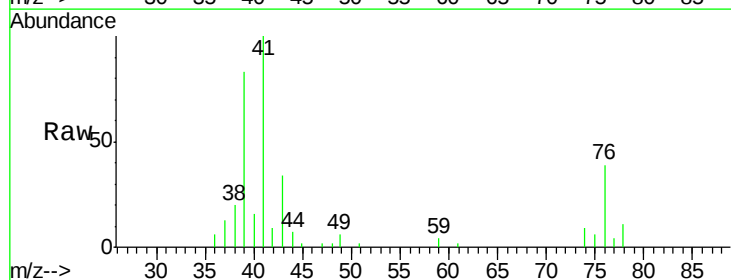
Tgt Ion: 41 Resp: 12632

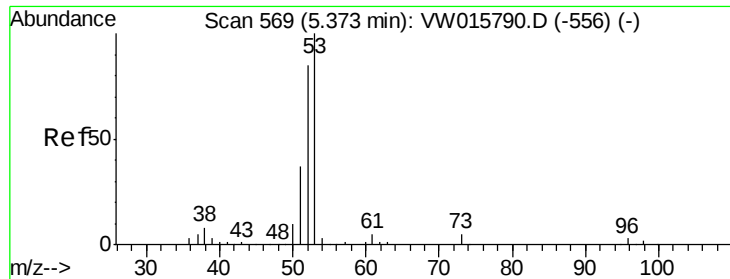
Ion Ratio Lower Upper

41 100

39 79.4 64.0 96.0

76 34.8 28.9 43.3





#15

Acrylonitrile

Concen: 23.422 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

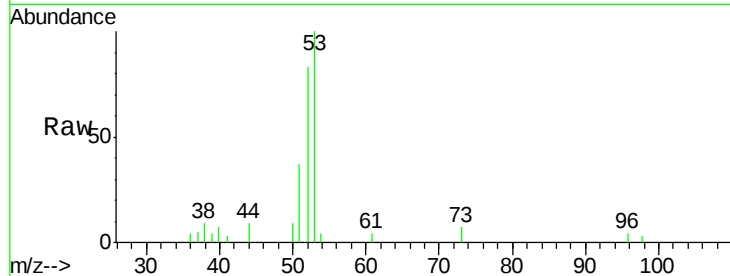
Tot Ion: 53 Resp: 8622

Ion Ratio Lower Upper

53 100

52 81.1 65.8 98.8

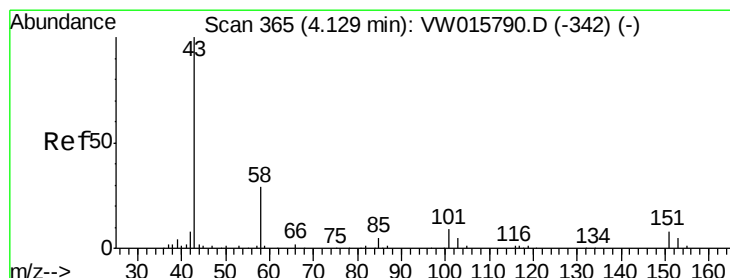
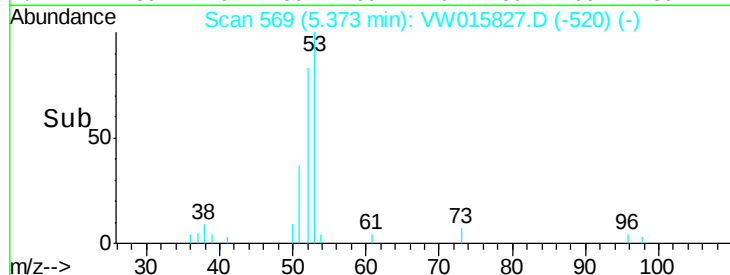
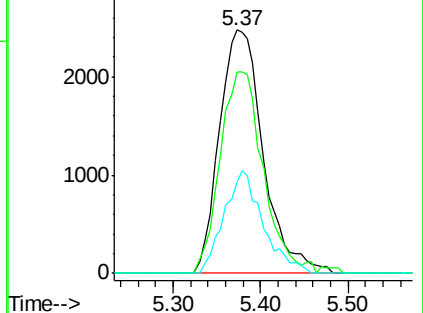
51 37.4 30.2 45.2



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: 28.657 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW015827.D

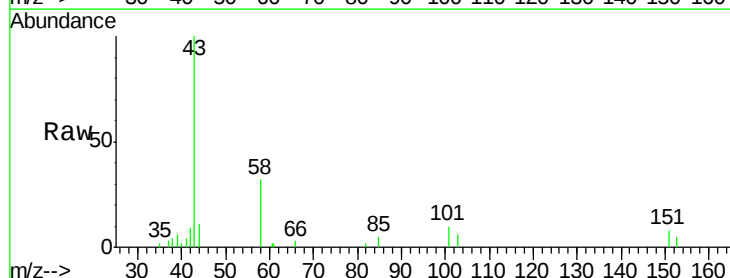
Acq: 09 Jul 2020 14:40

Tgt Ion: 43 Resp: 10513

Ion Ratio Lower Upper

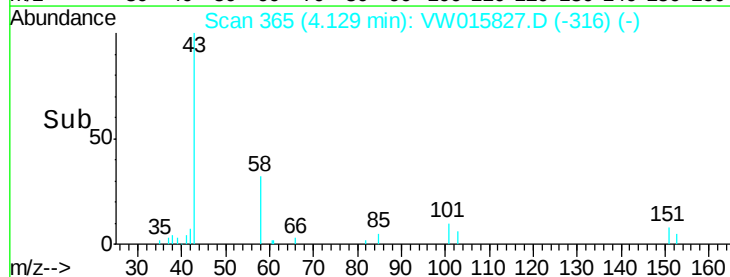
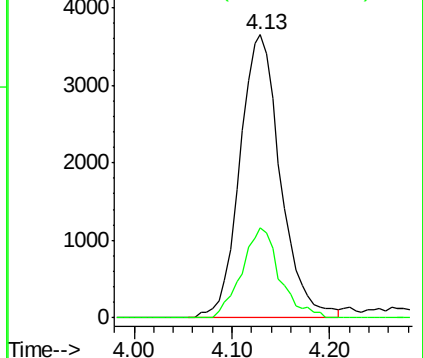
43 100

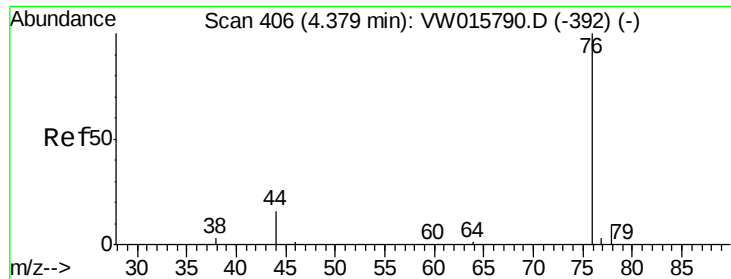
58 31.8 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

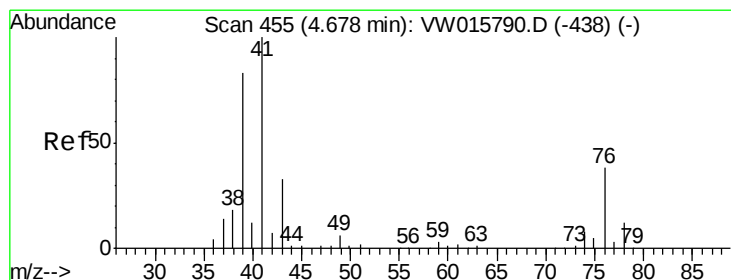
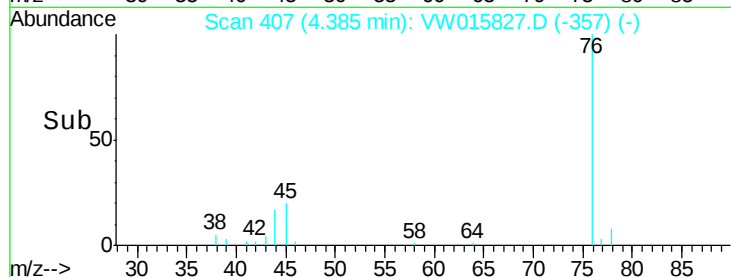
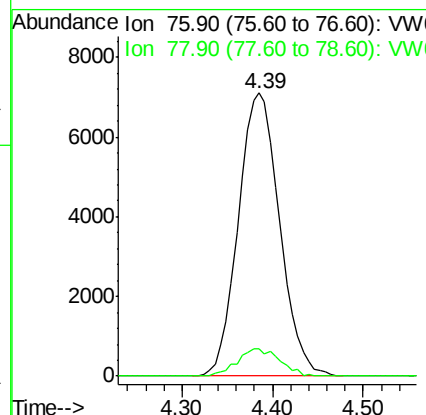
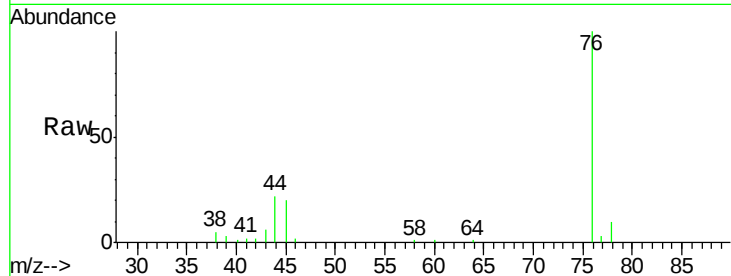




#17
Carbon Disulfide
Concen: 4.332 ug/l
RT: 4.39 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

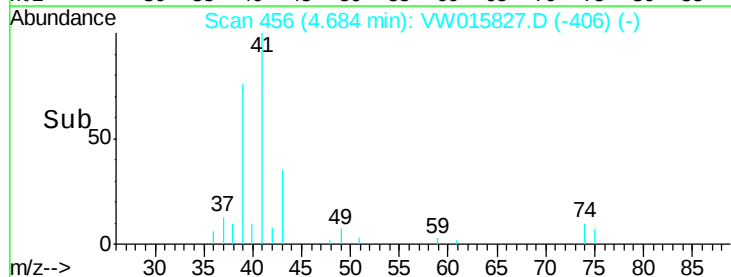
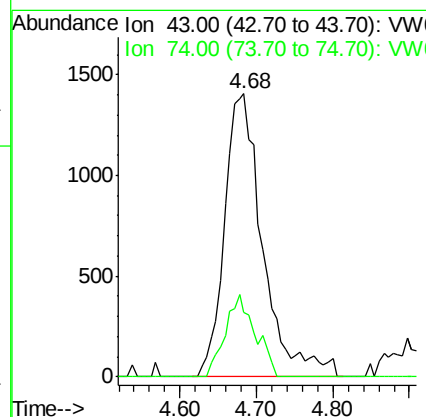
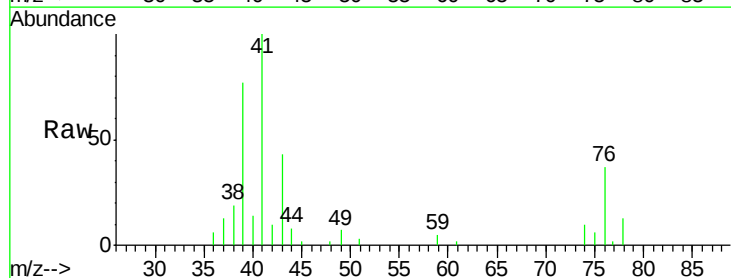
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

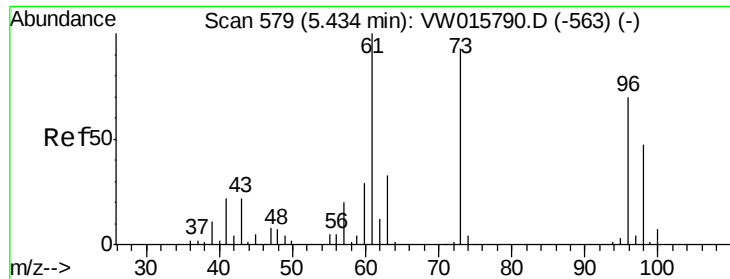
Tot Ion: 76 Resp: 22411
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0



#18
Methyl Acetate
Concen: 5.805 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 43 Resp: 4846
Ion Ratio Lower Upper
43 100
74 22.9 19.2 28.8

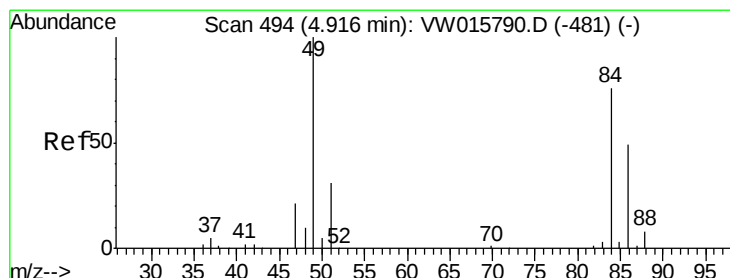
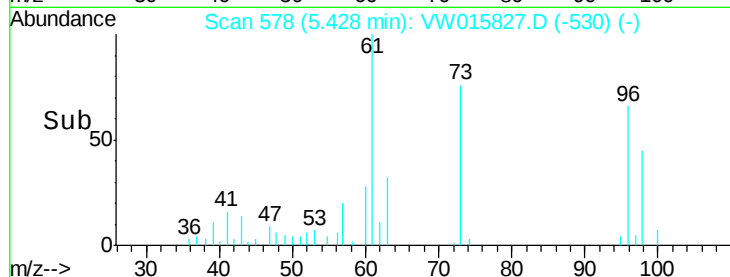
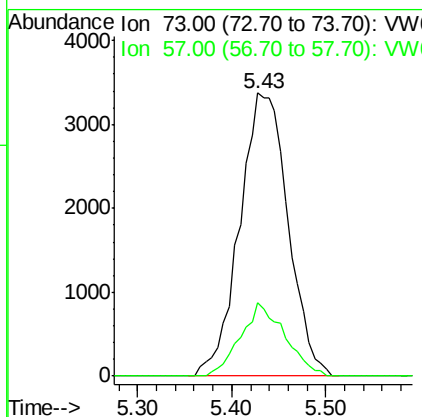
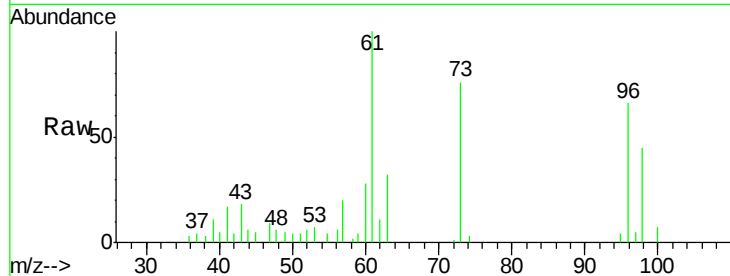




#19
Methvl tert-butvl Ether
Concen: 4.658 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

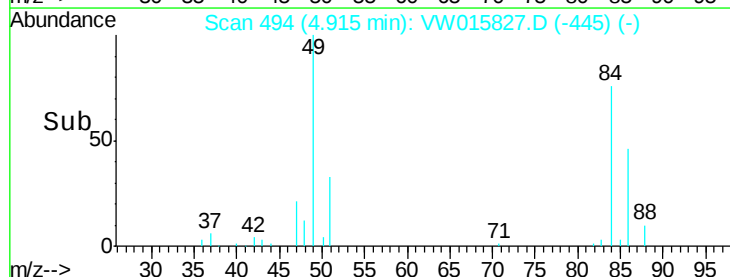
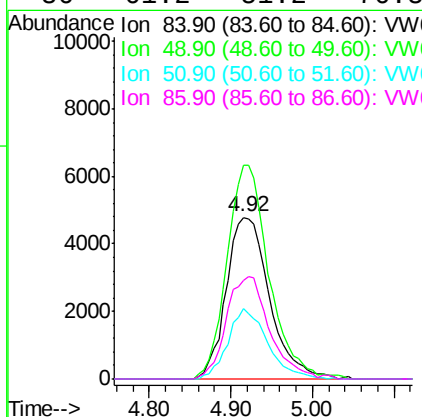
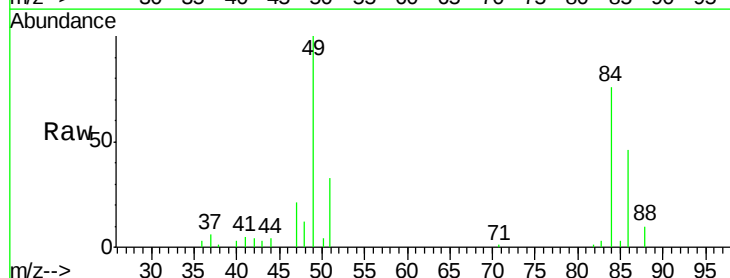
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

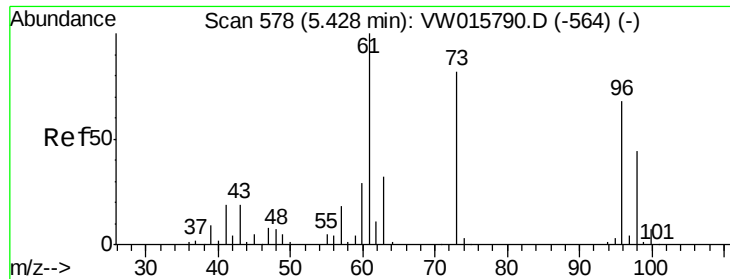
Tot Ion: 73 Resp: 12124
Ion Ratio Lower Upper
73 100
57 26.1 16.8 25.2#



#20
Methylene Chloride
Concen: 8.263 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 84 Resp: 17604
Ion Ratio Lower Upper
84 100
49 132.4 105.0 157.6
51 43.5 32.3 48.5
86 61.2 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 4.476 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

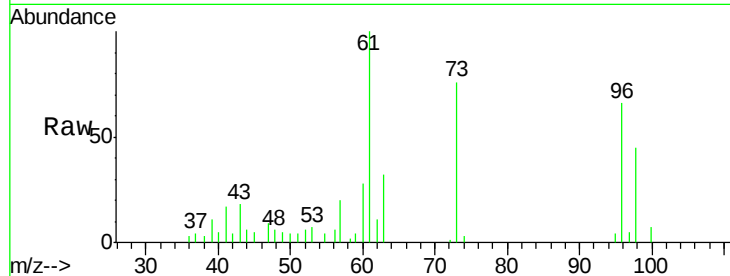
Tot Ion: 96 Resp: 9017

Ion Ratio Lower Upper

96 100

61 150.5 118.1 177.1

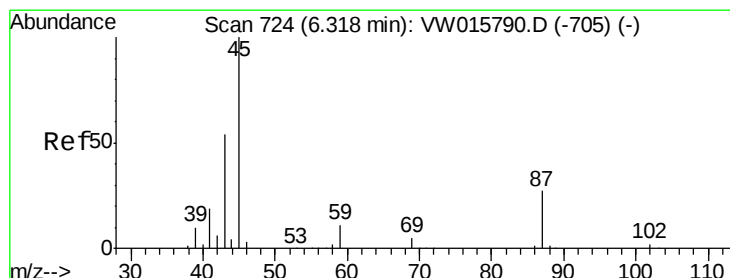
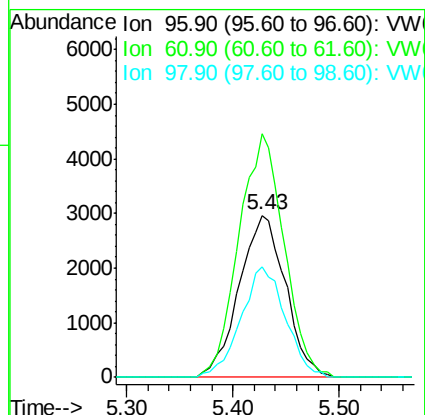
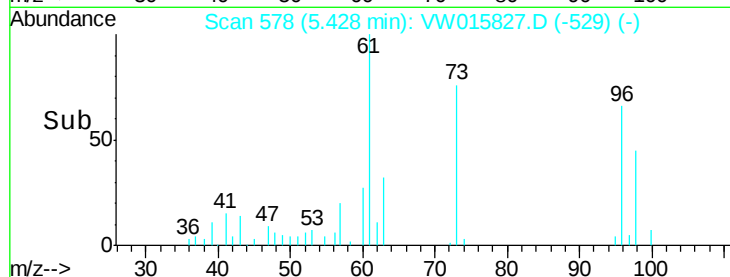
98 68.3 52.6 78.8



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: 4.378 ug/l

RT: 6.32 min Scan# 724

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Tgt Ion: 45 Resp: 24941

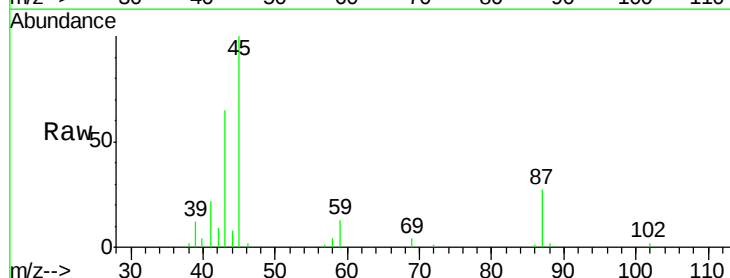
Ion Ratio Lower Upper

45 100

43 63.8 43.8 65.6

87 26.8 22.1 33.1

59 13.4 8.9 13.3#

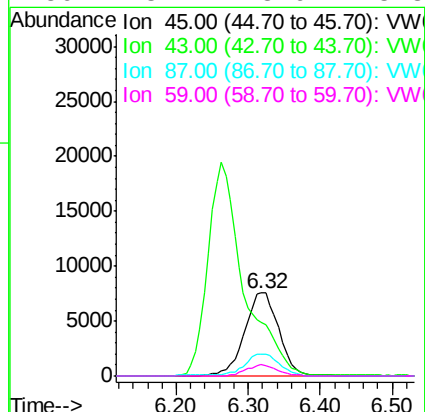
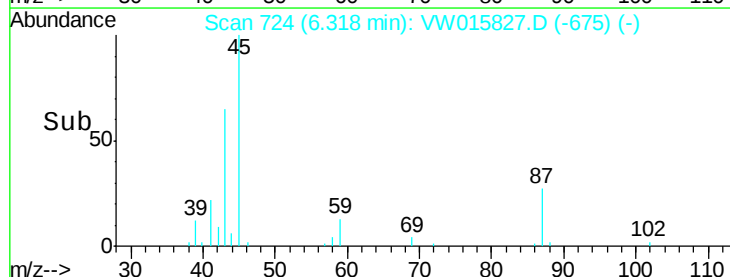


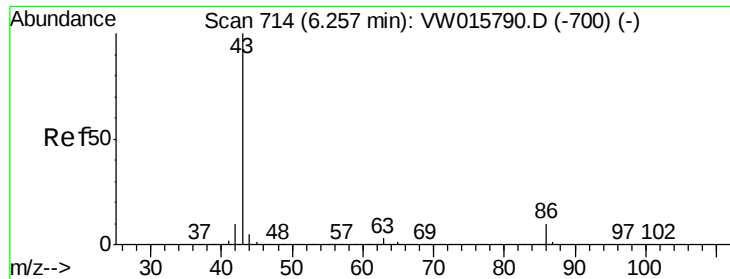
Abundance Ion 45.00 (44.70 to 45.70): VW

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: 20.019 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

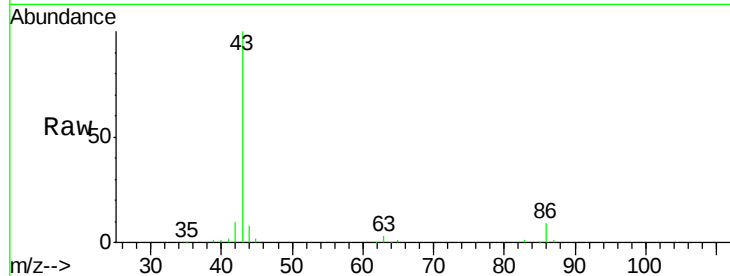
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 67828

Ion Ratio Lower Upper

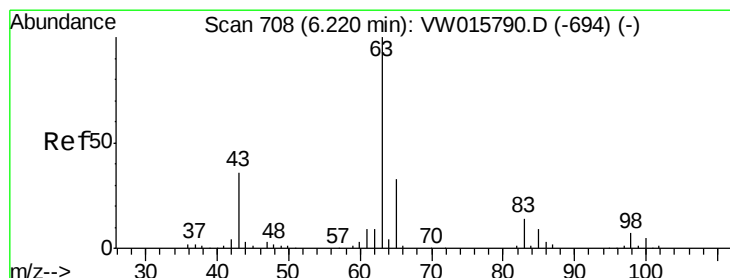
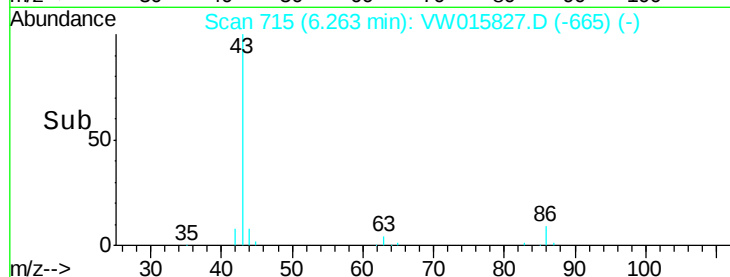
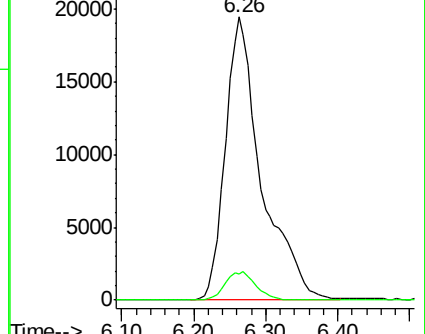
43 100

86 9.3 8.2 12.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 4.673 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

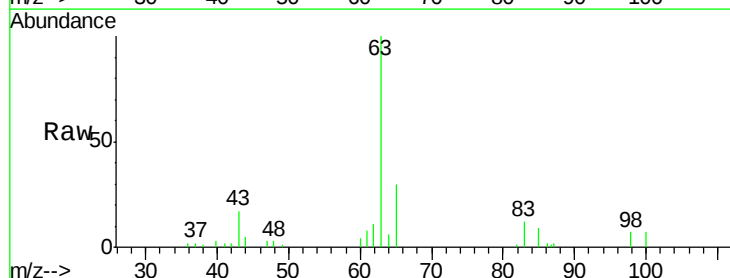
Tgt Ion: 63 Resp: 16855

Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

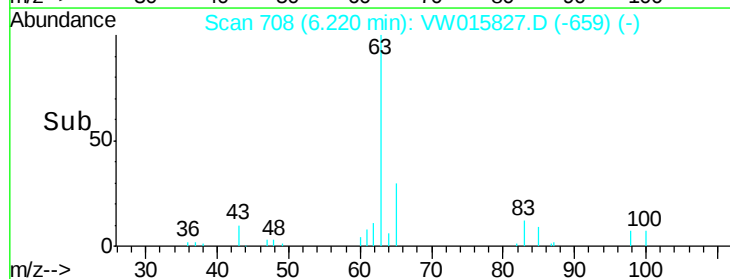
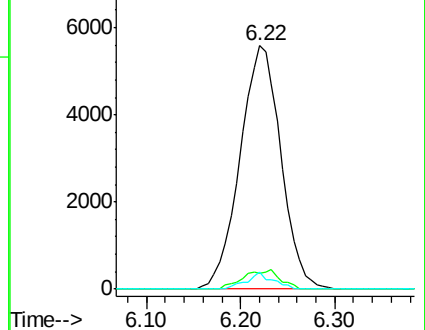
100 6.9 2.4 7.1

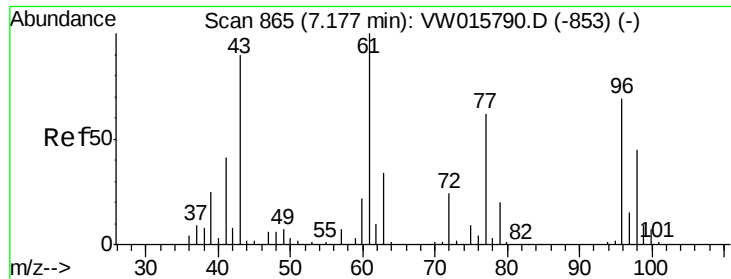


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

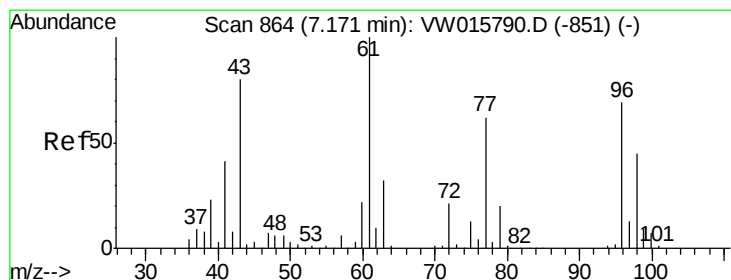
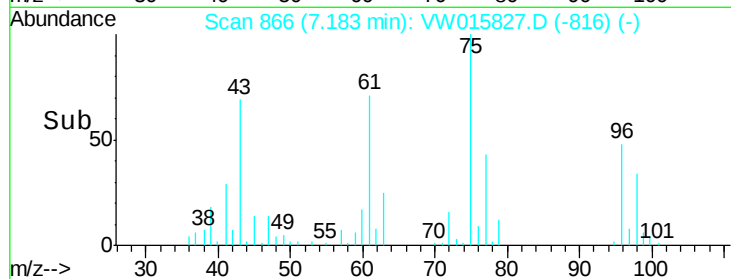
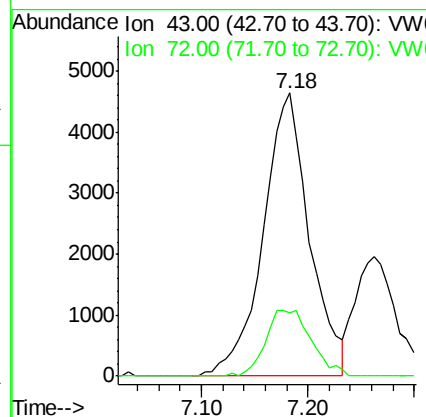
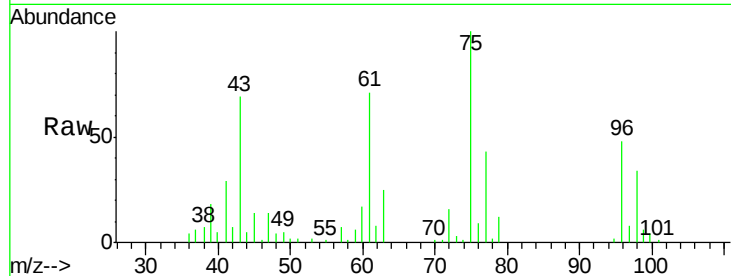




#25
2-Butanone
Concen: 28.201 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

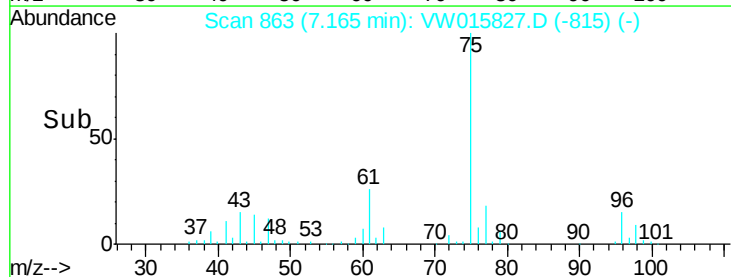
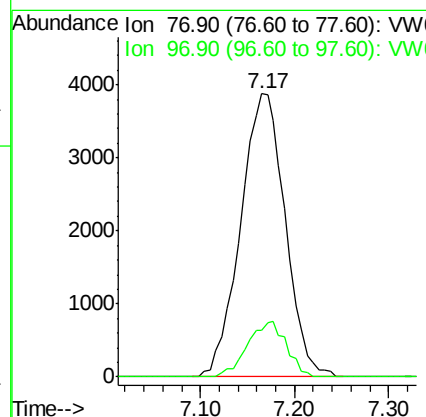
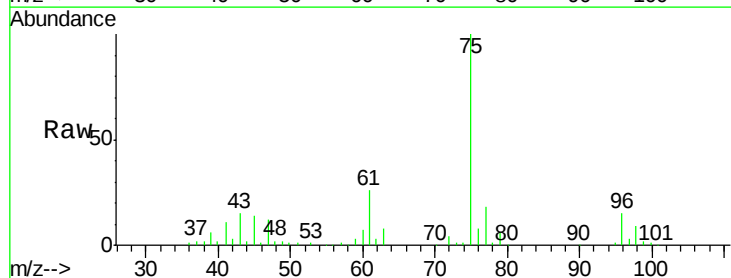
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

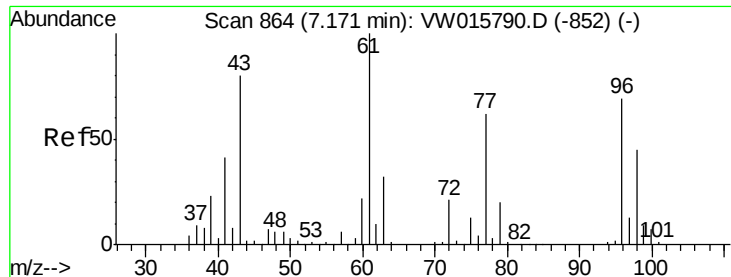
Tot Ion: 43 Resp: 14043
Ion Ratio Lower Upper
43 100
72 22.5 21.3 31.9



#26
2,2-Dichloropropane
Concen: 5.662 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 77 Resp: 12810
Ion Ratio Lower Upper
77 100
97 17.1 11.0 33.0



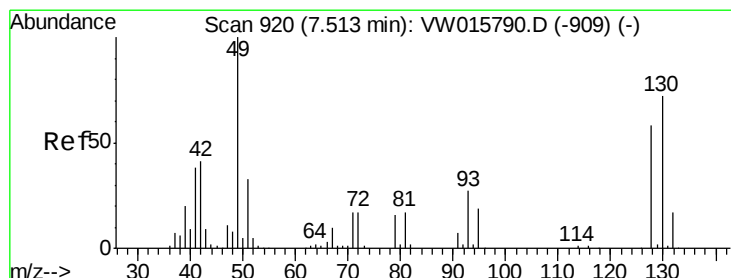
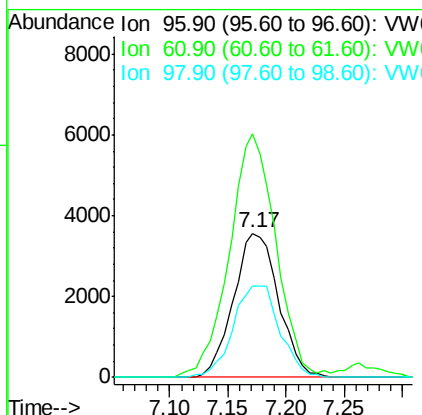
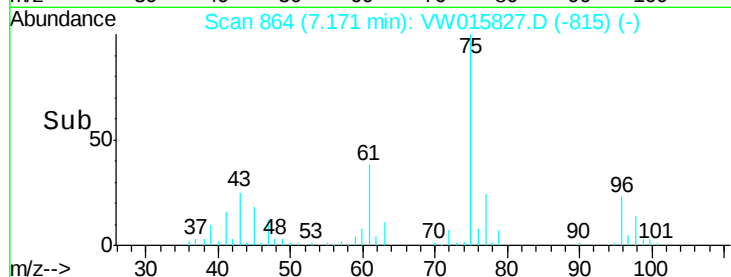
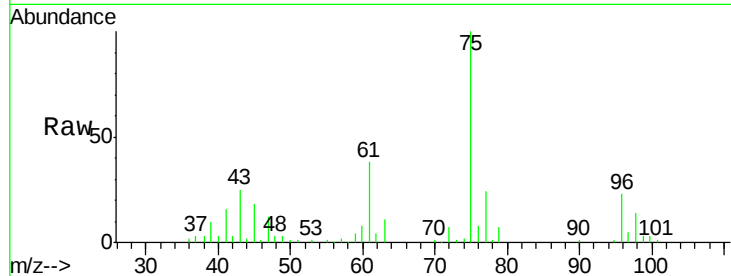


#27

cis-1,2-Dichloroethene
Concen: 4.430 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

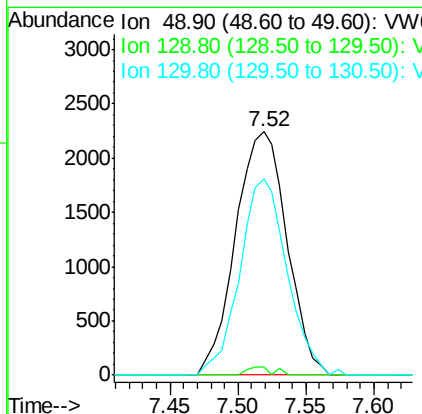
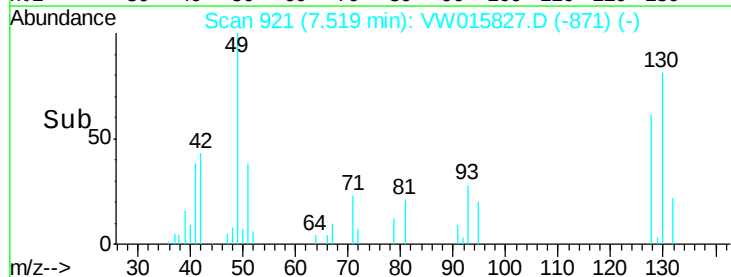
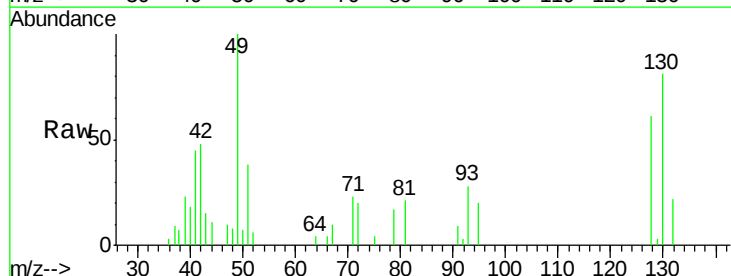
Tot Ion: 96 Resp: 9581
Ion Ratio Lower Upper
96 100
61 173.1 0.0 292.2
98 65.9 0.0 129.0



#28

Bromochloromethane
Concen: 4.135 ug/l
RT: 7.52 min Scan# 921
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 49 Resp: 5912
Ion Ratio Lower Upper
49 100
129 1.6 0.0 2.6
130 74.5 59.5 89.3

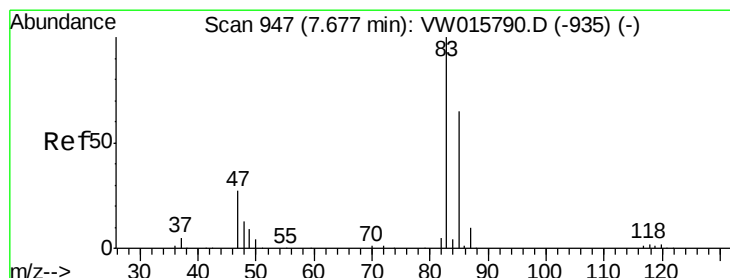
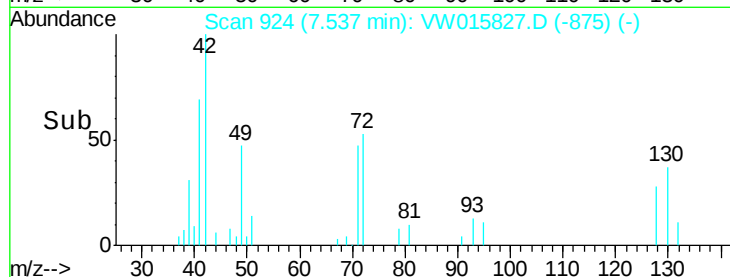
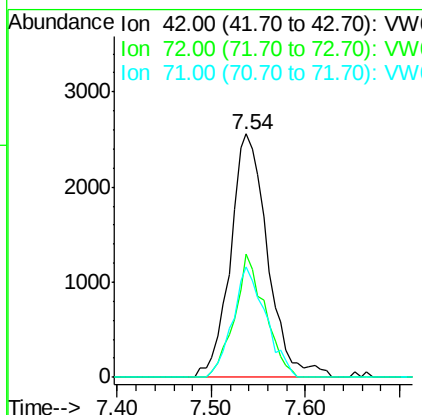
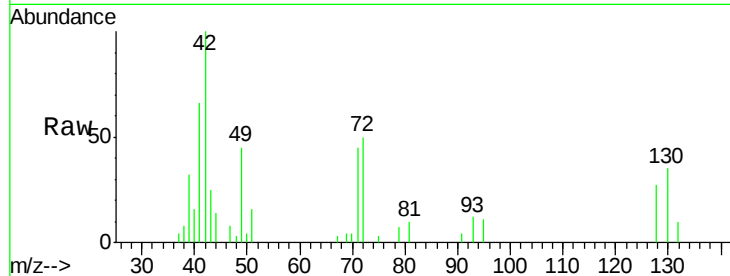




#29
Tetrahydrofuran
Concen: 23.175 ug/l
RT: 7.54 min Scan# 924
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

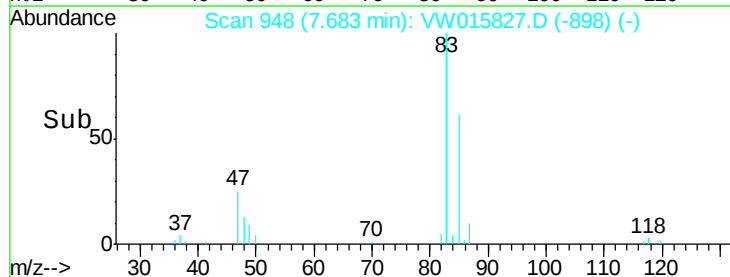
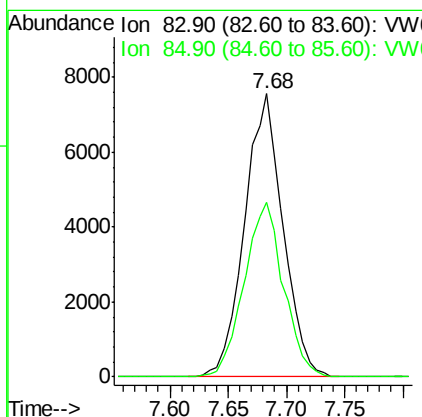
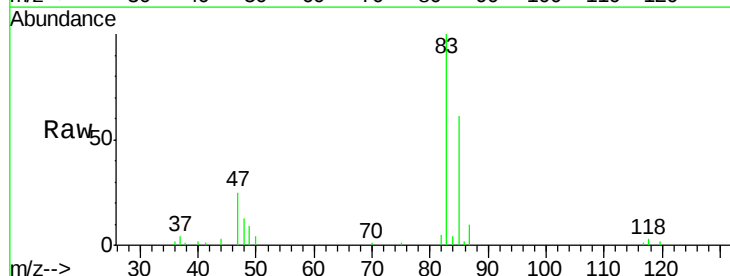
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

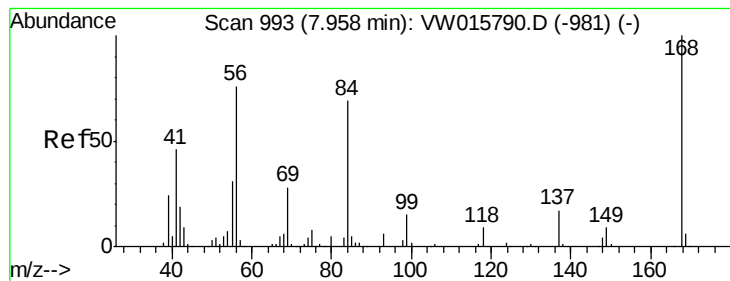
Tot Ion: 42 Resp: 7003
Ion Ratio Lower Upper
42 100
72 41.4 34.6 51.8
71 40.4 32.8 49.2



#30
Chloroform
Concen: 4.686 ug/l
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 83 Resp: 17275
Ion Ratio Lower Upper
83 100
85 61.5 51.6 77.4





#31

Cyclohexane

Concen: 5.513 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

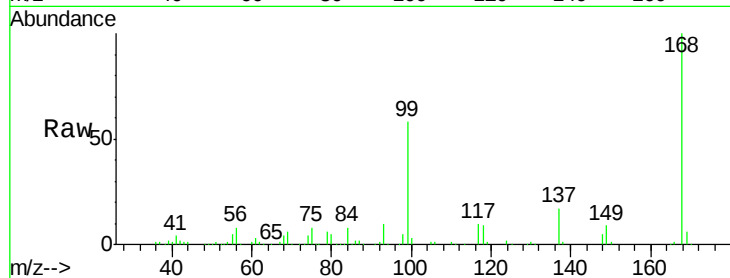
Tot Ion: 56 Resp: 18712

Ion Ratio Lower Upper

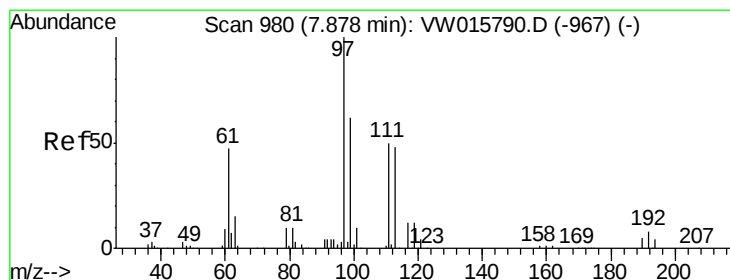
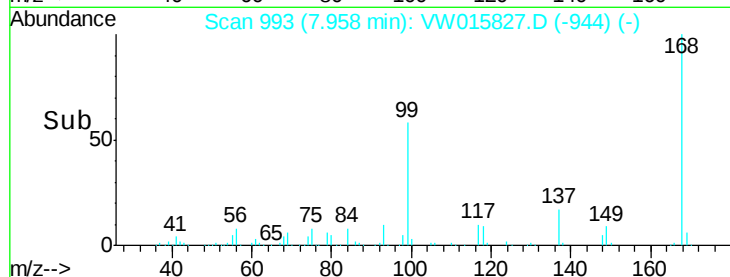
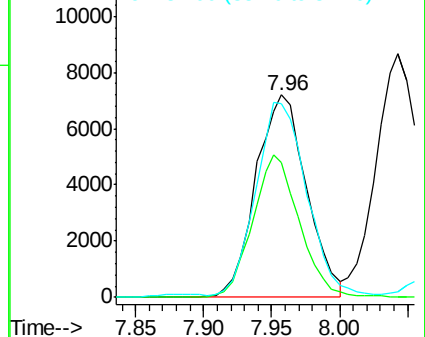
56 100

69 66.7 28.9 43.3#

84 94.0 72.2 108.4



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: 4.660 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

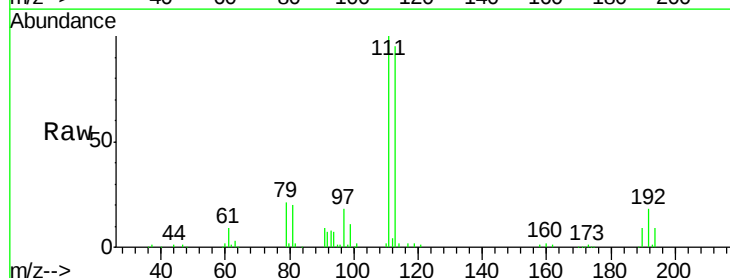
Tgt Ion: 97 Resp: 14406

Ion Ratio Lower Upper

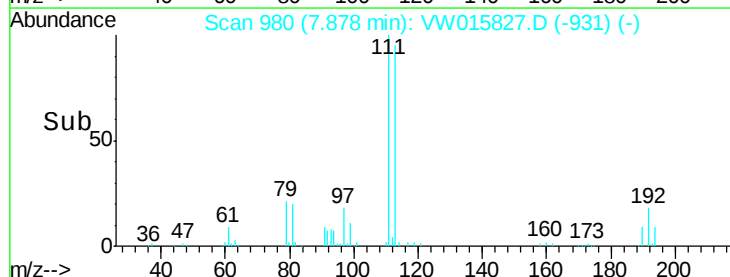
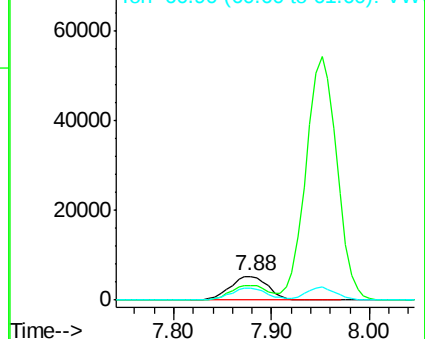
97 100

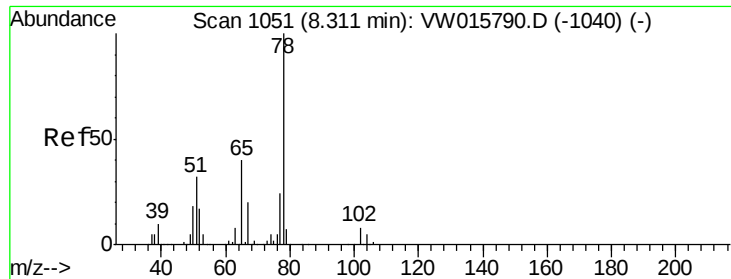
99 62.7 51.0 76.4

61 48.4 38.6 57.8



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

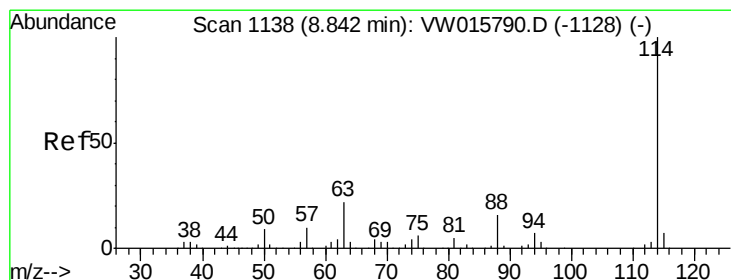
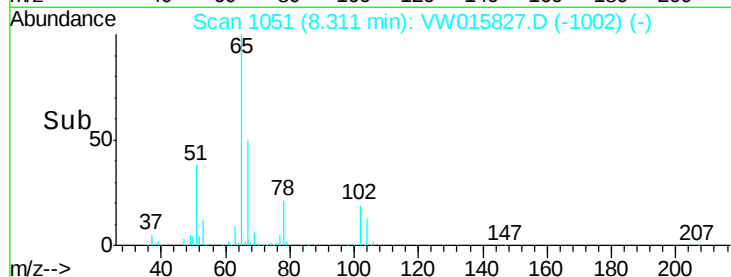
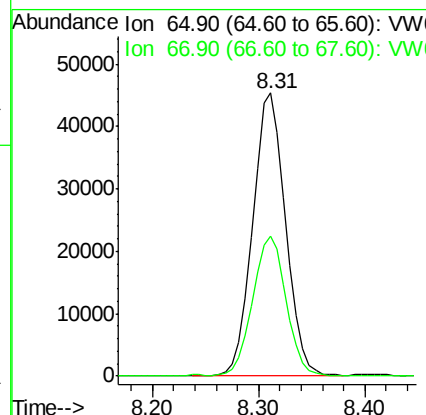
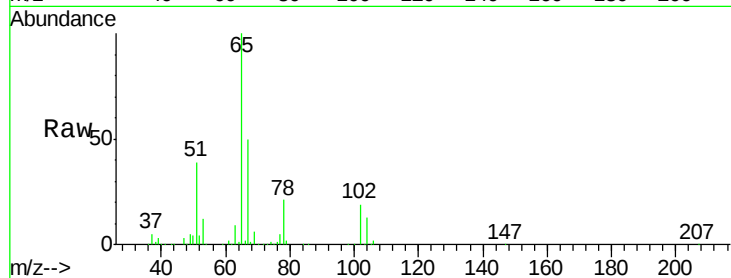




#33
 1,2-Dichloroethane-d4
 Concen: 50.059 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

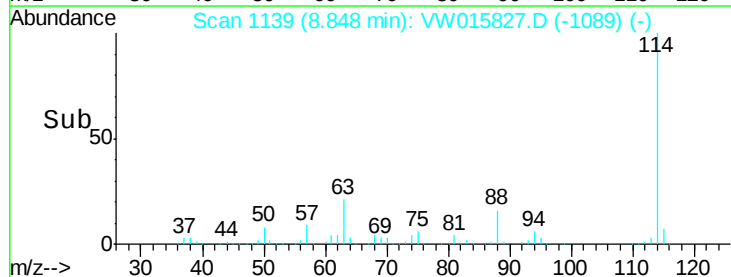
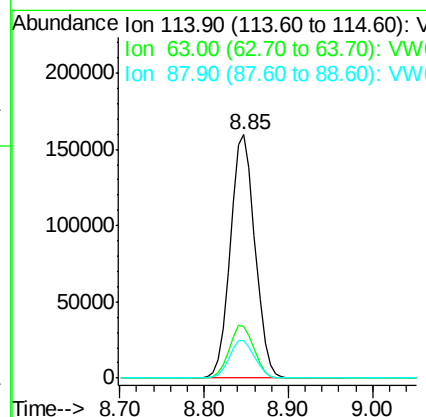
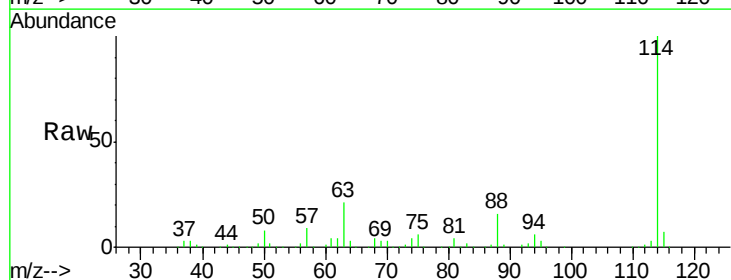
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

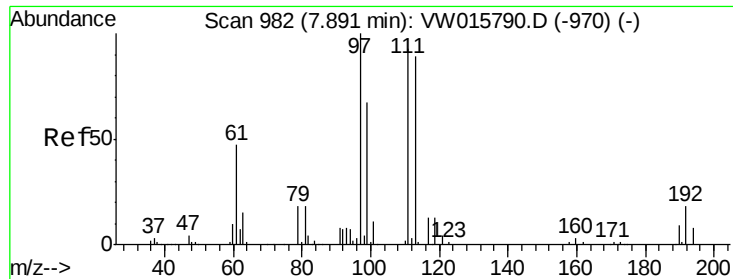
Tot Ion: 65 Resp: 98147
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 114 Resp: 317542
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 44.4
 88 15.6 0.0 32.6

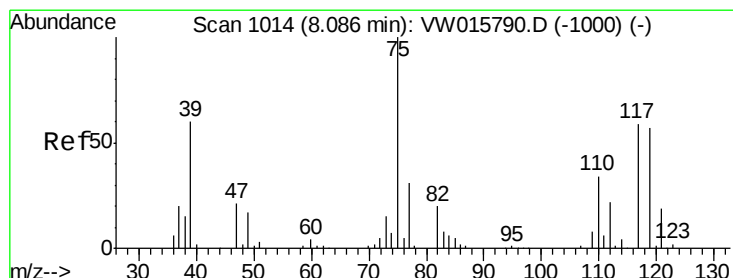
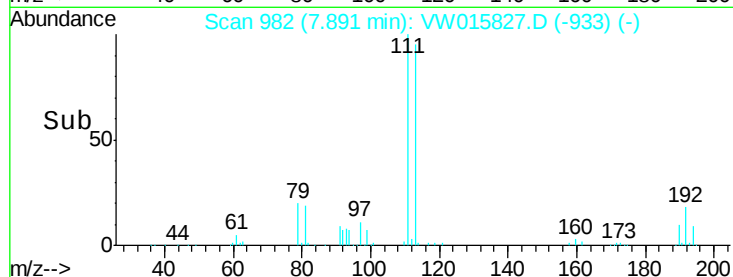
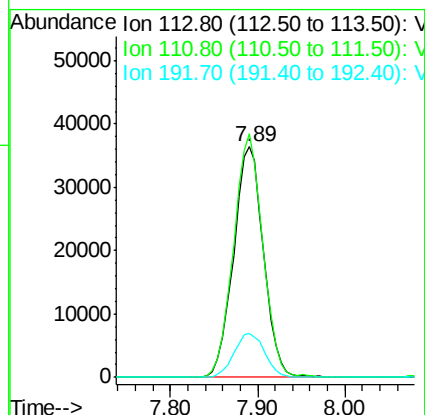
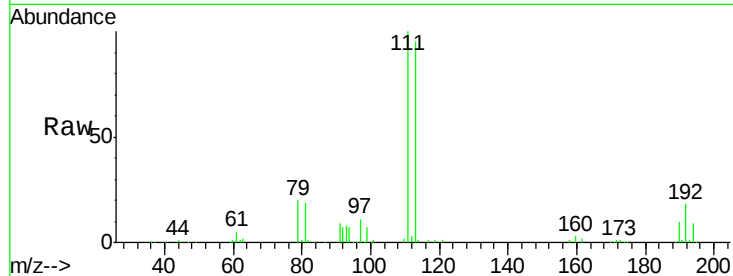




#35
 Dibromofluoromethane
 Concen: 46.682 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

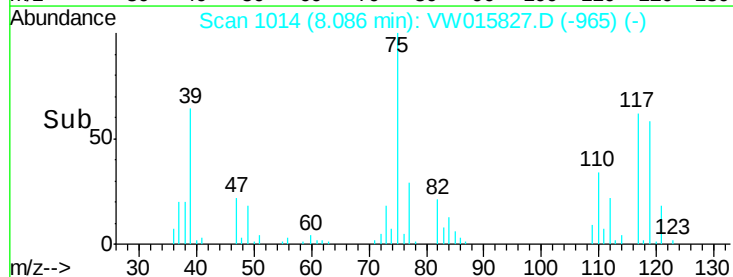
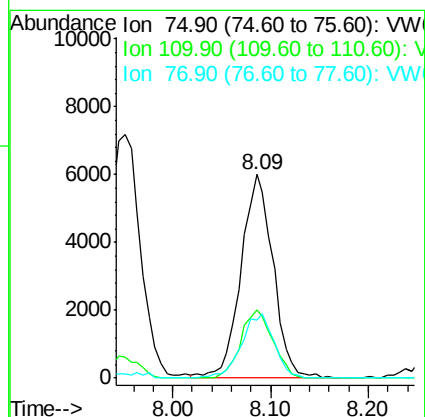
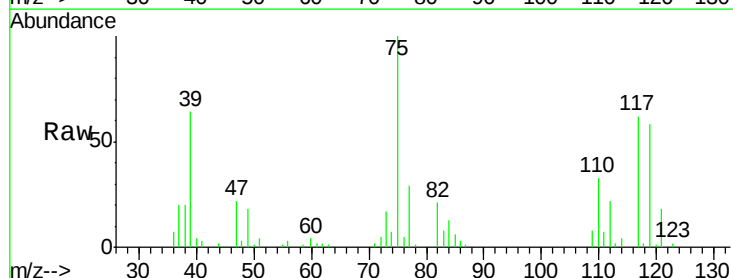
Instrument :
 MSVOA_W
 ClientSampleID :
 MDL-SOIL-03-QT3-2020DL

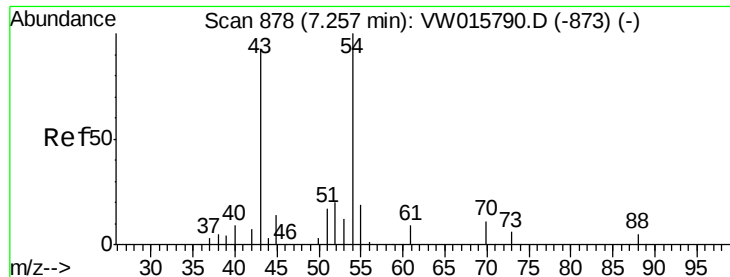
Tot Ion:113 Resp: 86483
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.8 124.2
 192 19.5 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.376 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 75 Resp: 13697
 Ion Ratio Lower Upper
 75 100
 110 33.1 16.8 50.3
 77 32.2 24.7 37.1

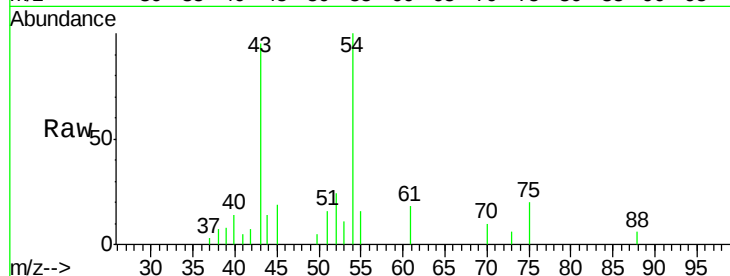




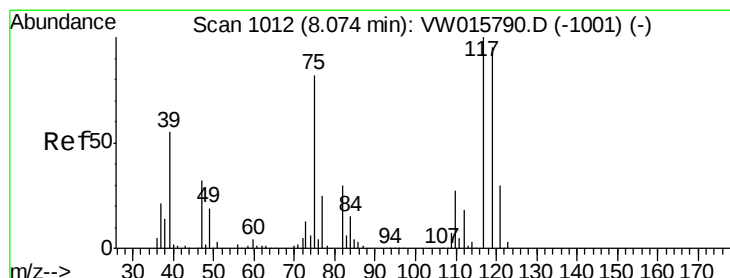
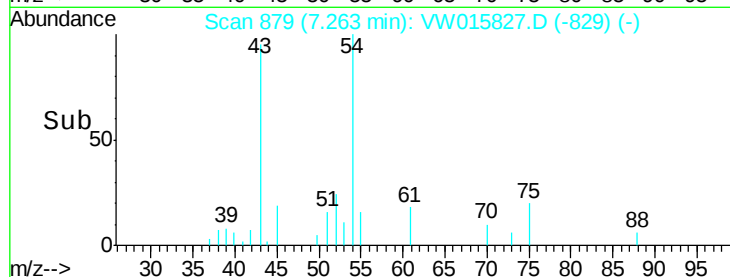
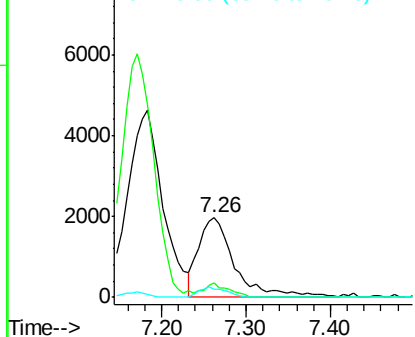
#37
Ethyl Acetate
Concen: 4.839 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 5886
Ion Ratio Lower Upper
43 100
61 12.6 10.4 15.6
70 9.9 8.4 12.6

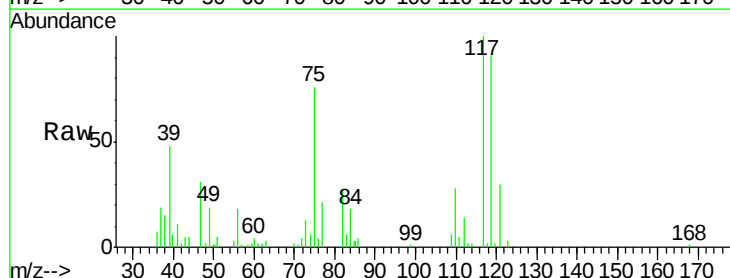


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

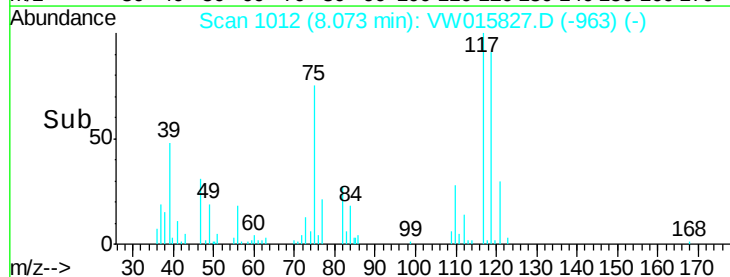
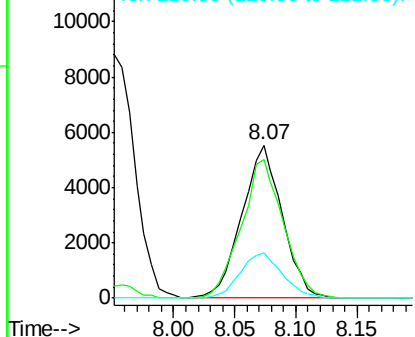


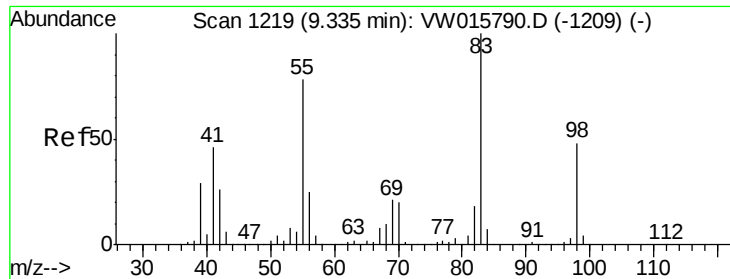
#38
Carbon Tetrachloride
Concen: 4.191 ug/l
RT: 8.07 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 117 Resp: 12695
Ion Ratio Lower Upper
117 100
119 90.9 76.3 114.5
121 29.8 24.0 36.0



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

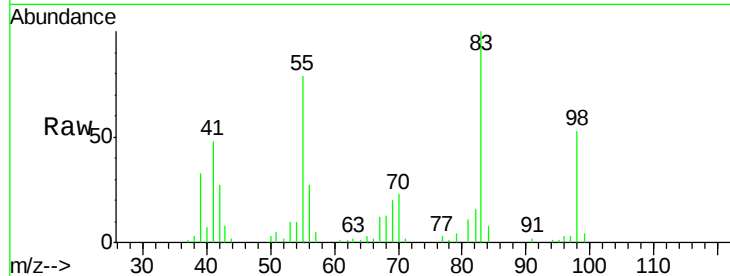




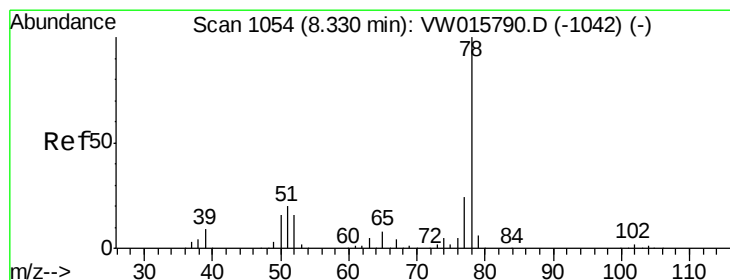
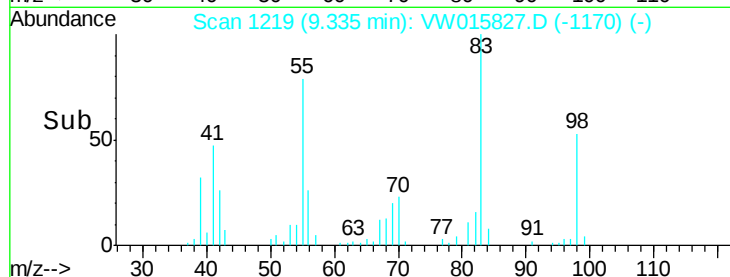
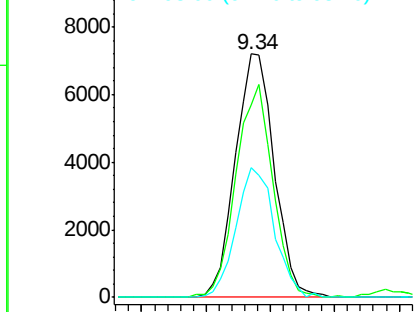
#39
Methvlcvclohexane
Concen: 4.079 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 83 Resp: 15065
Ion Ratio Lower Upper
83 100
55 79.2 62.6 94.0
98 53.3 38.6 58.0

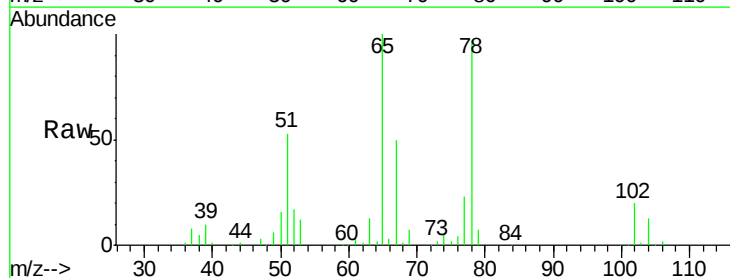


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

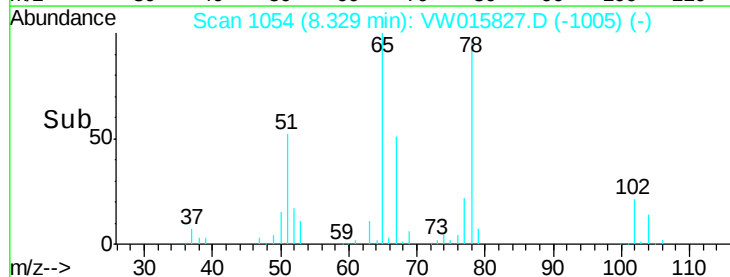
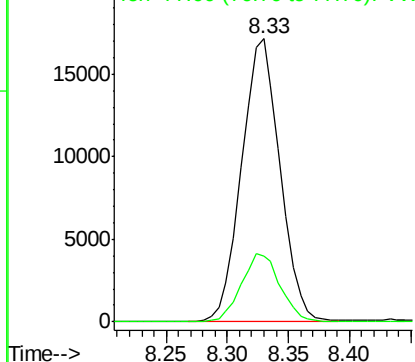


#40
Benzene
Concen: 4.361 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 78 Resp: 37394
Ion Ratio Lower Upper
78 100
77 23.3 19.0 28.6



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

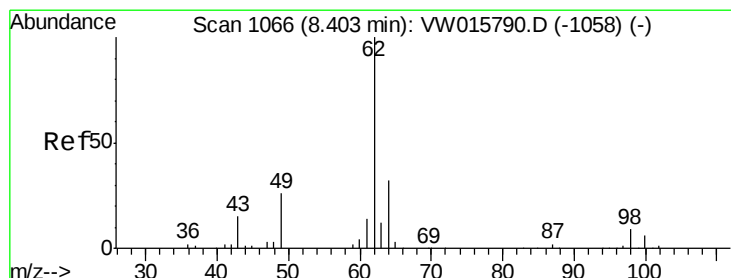
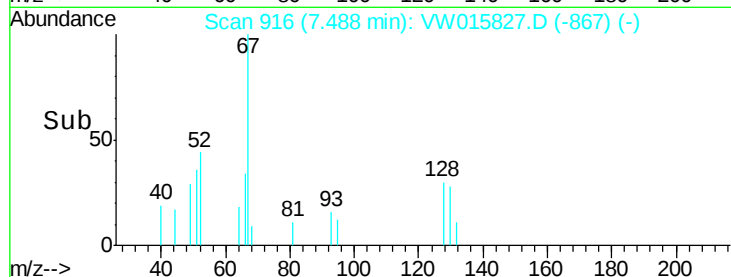
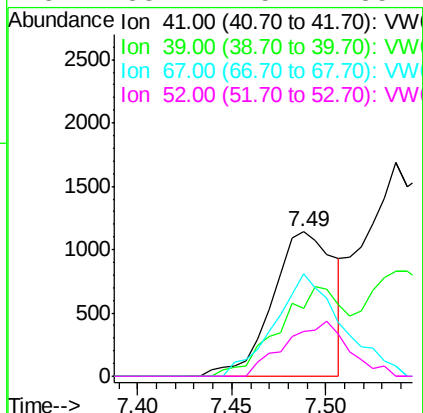
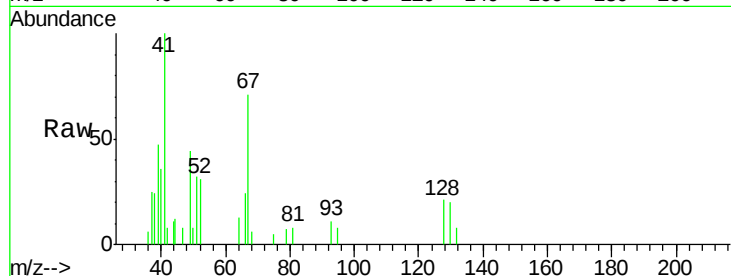




#41
Methacrylonitrile
Concen: 3.793 ug/l
RT: 7.49 min Scan# 916
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

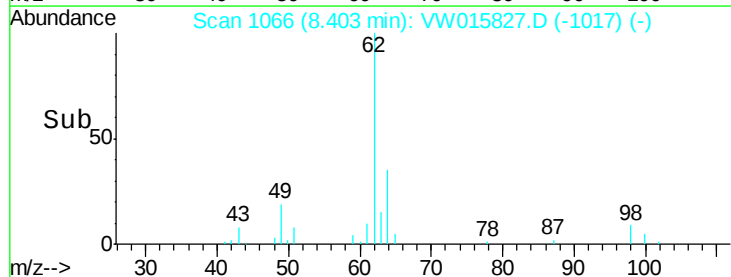
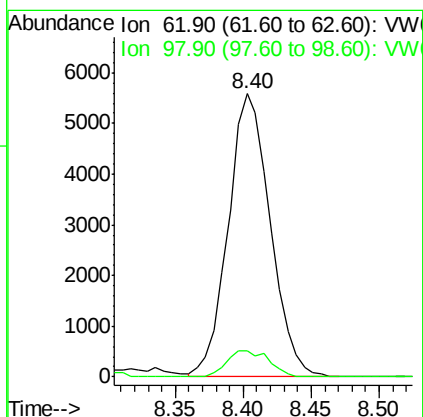
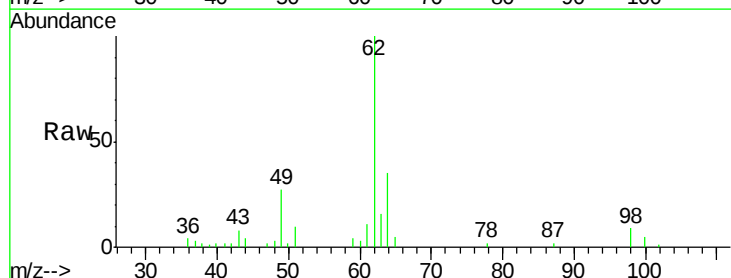
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

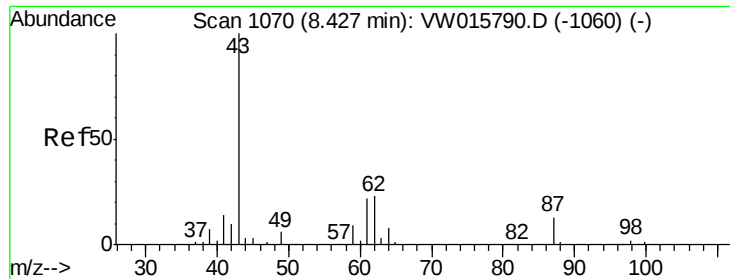
Tot Ion:	41	Resp:	2619
Ion	Ratio	Lower	Upper
41	100		
39	65.2	44.6	66.8
67	76.5	56.4	84.6
52	38.7	25.4	38.2#



#42
1,2-Dichloroethane
Concen: 4.507 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:	62	Resp:	12029
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.2





#43

Isopropyl Acetate

Concen: 4.255 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

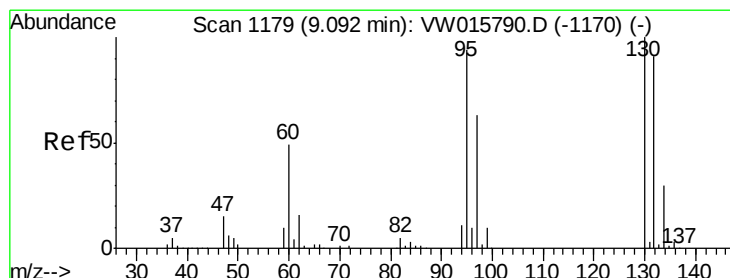
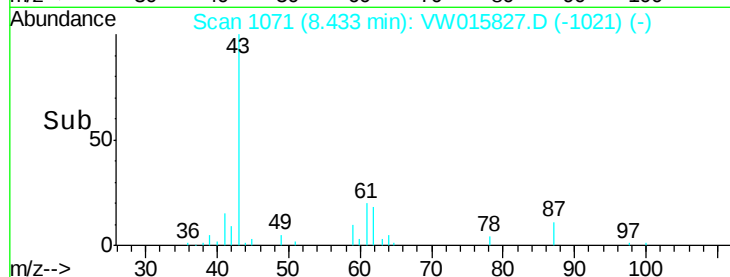
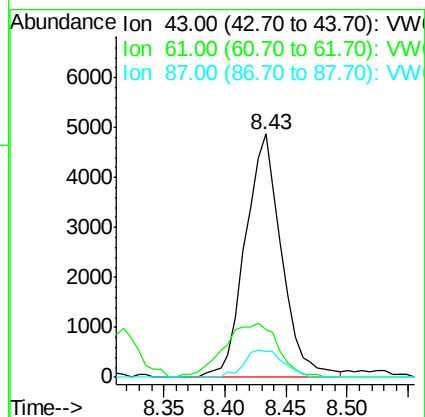
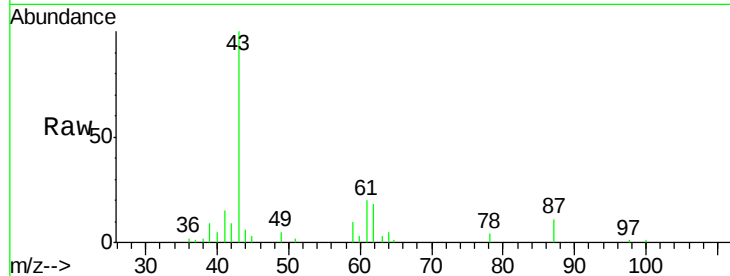
Tot Ion: 43 Resp: 10103

Ion Ratio Lower Upper

43 100

61 33.0 24.8 37.2

87 12.3 10.4 15.6



#44

Trichloroethene

Concen: 4.491 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW015827.D

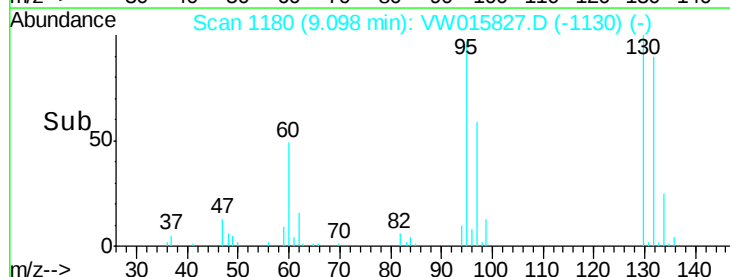
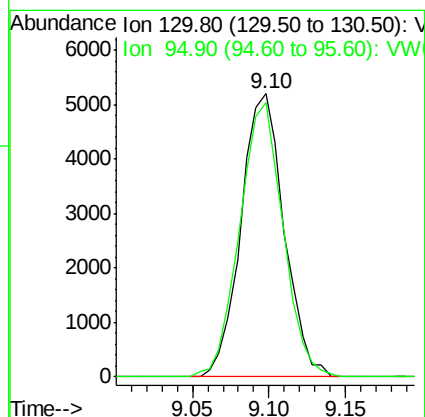
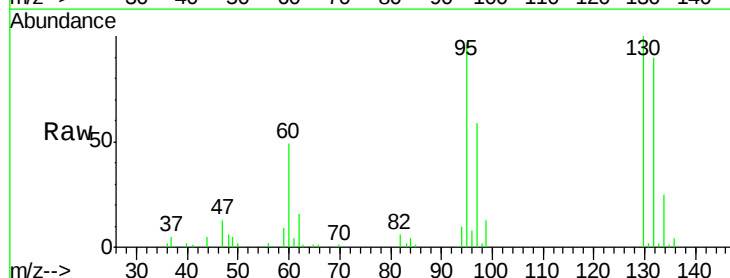
Acq: 09 Jul 2020 14:40

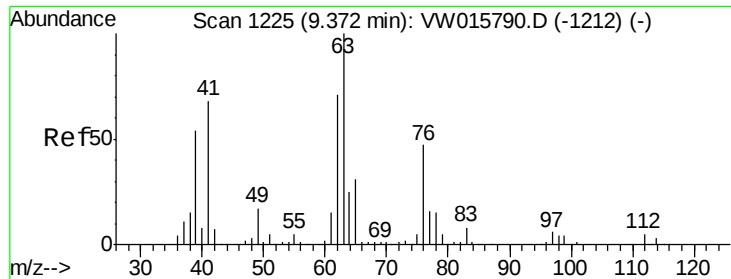
Tgt Ion: 130 Resp: 10185

Ion Ratio Lower Upper

130 100

95 96.9 0.0 188.6

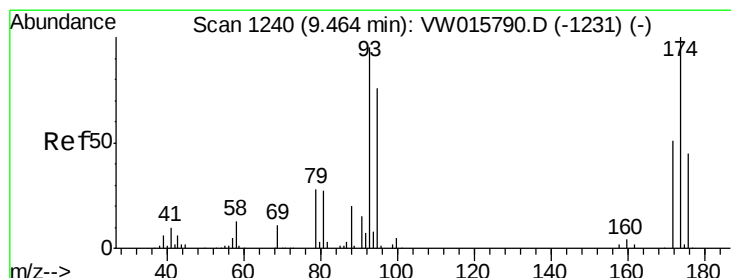
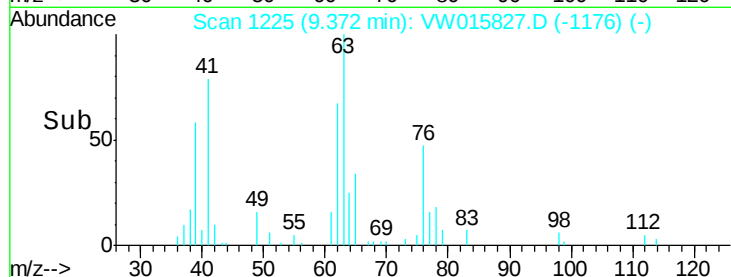
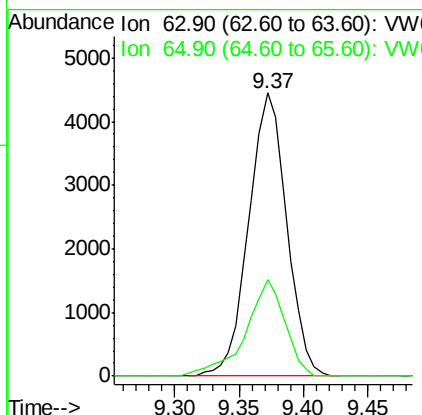
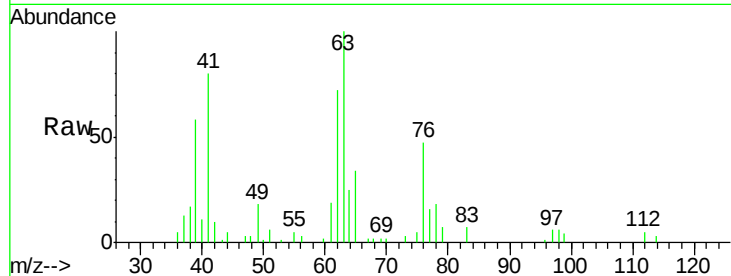




#45
 1,2-Dichloropropane
 Concen: 4.302 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

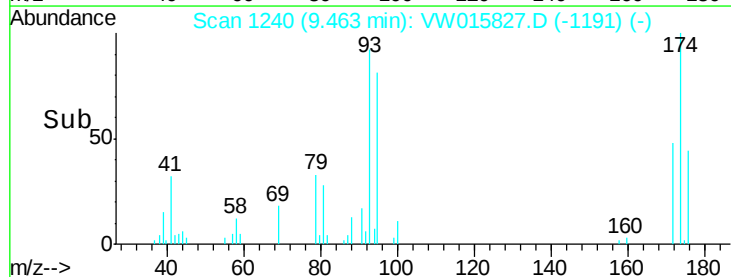
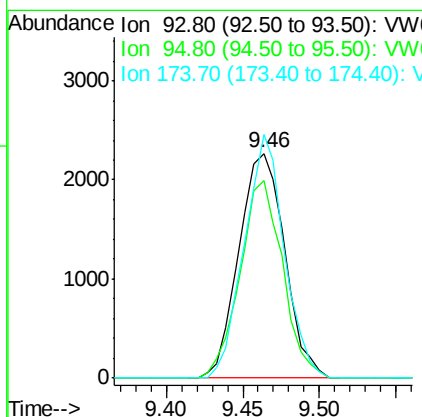
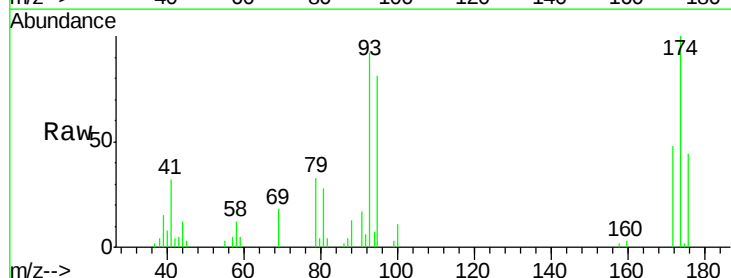
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 63 Resp: 9067
 Ion Ratio Lower Upper
 63 100
 65 33.9 24.5 36.7



#46
 Dibromomethane
 Concen: 4.348 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 93 Resp: 4718
 Ion Ratio Lower Upper
 93 100
 95 81.8 66.0 99.0
 174 94.6 78.7 118.1





#47

Bromodichloromethane

Concen: 4.141 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

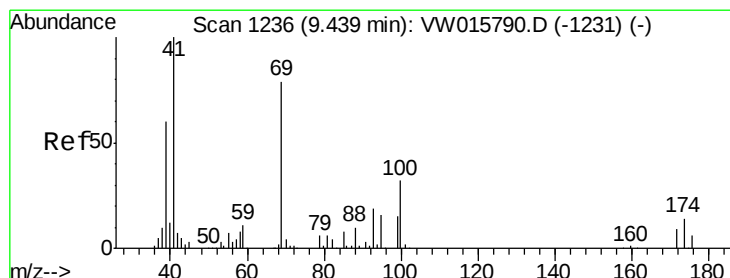
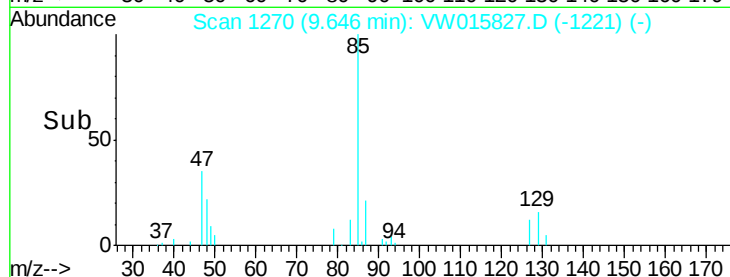
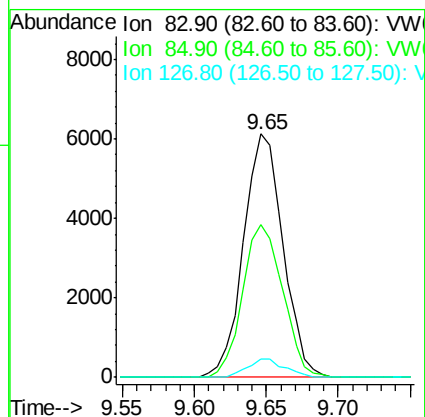
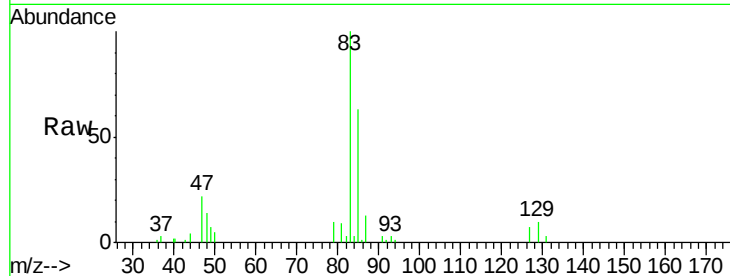
Tot Ion: 83 Resp: 11622

Ion Ratio Lower Upper

83 100

85 62.6 50.6 76.0

127 7.4 6.2 9.2



#48

Methyl methacrylate

Concen: 3.966 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

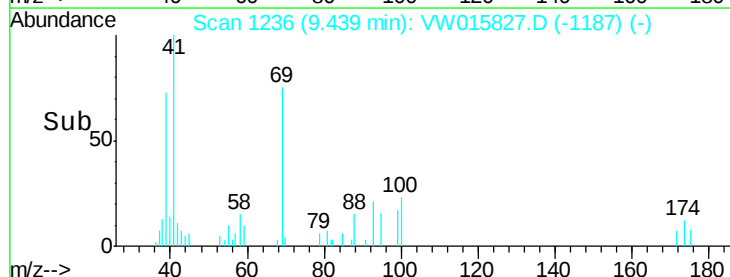
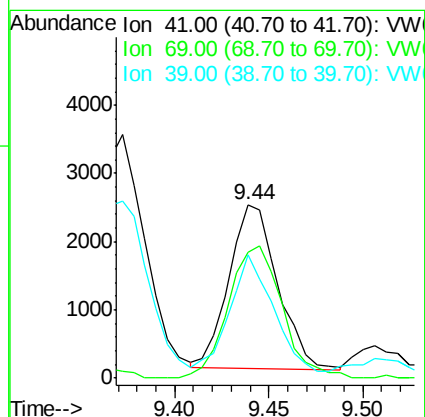
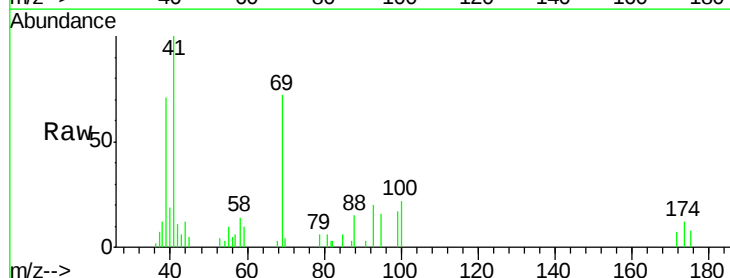
Tgt Ion: 41 Resp: 4315

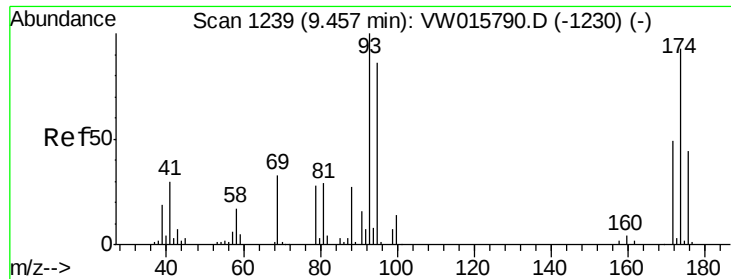
Ion Ratio Lower Upper

41 100

69 88.6 67.1 100.7

39 63.6 49.9 74.9





#49

1,4-Dioxane

Concen: 85.800 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

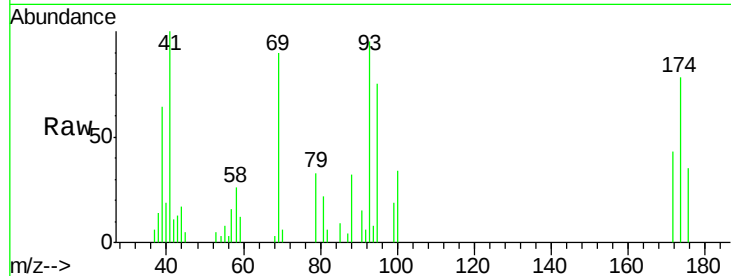
Tot Ion: 88 Resp: 1151

Ion Ratio Lower Upper

88 100

43 22.8 28.1 42.1#

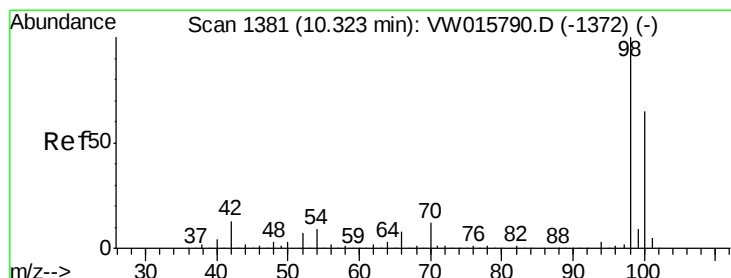
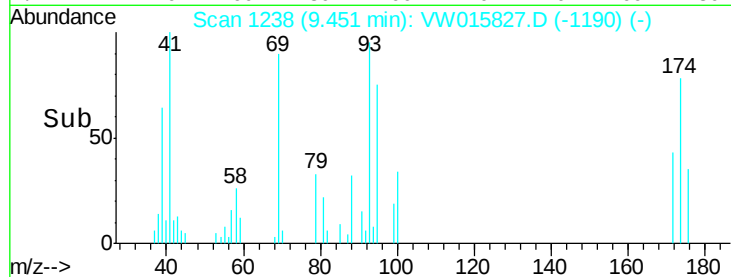
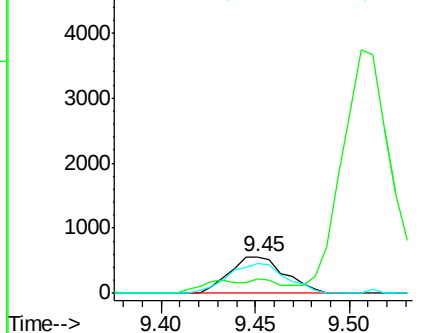
58 85.3 59.3 88.9



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 47.268 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW015827.D

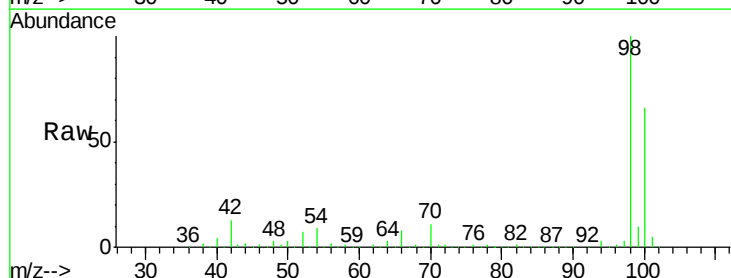
Acq: 09 Jul 2020 14:40

Tgt Ion: 98 Resp: 336363

Ion Ratio Lower Upper

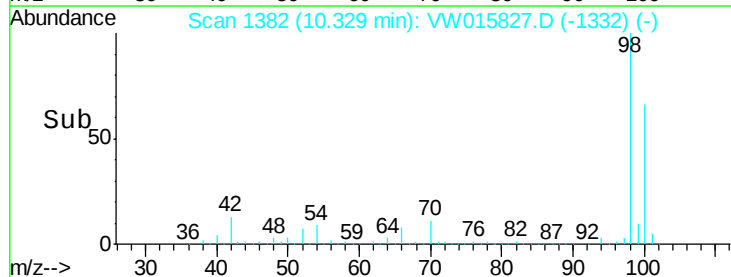
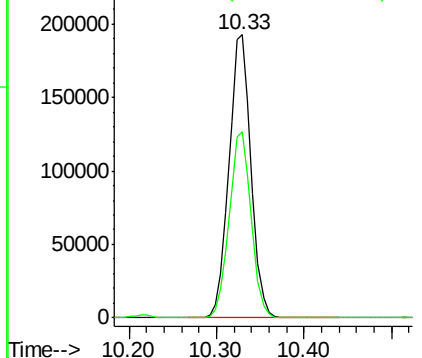
98 100

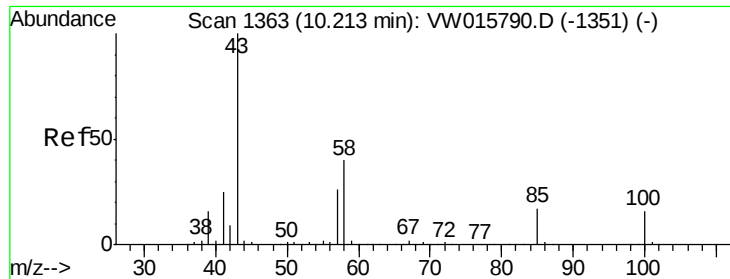
100 65.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

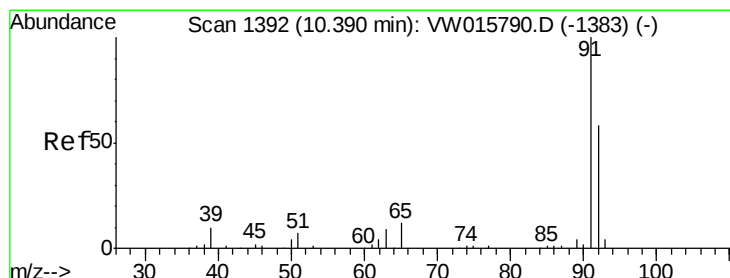
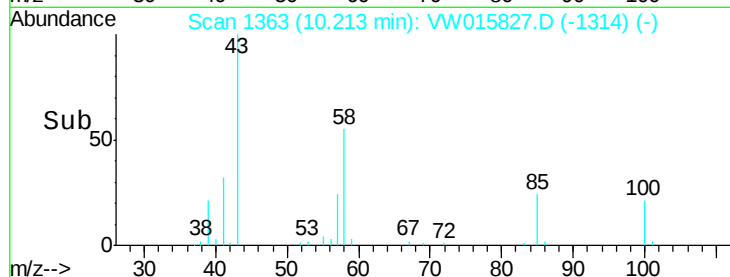
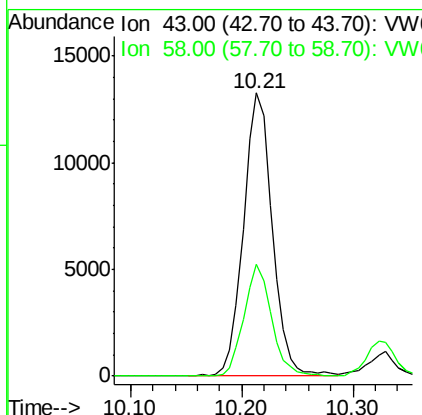
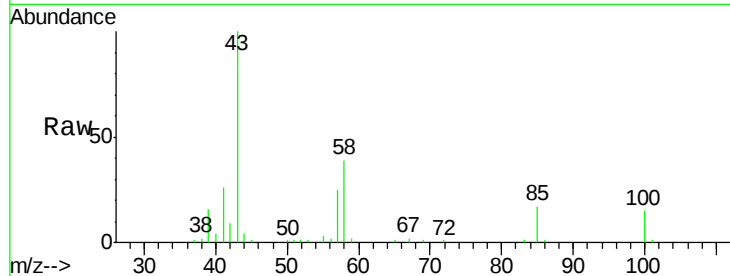




#51
4-Methyl-2-Pentanone
Concen: 20.695 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

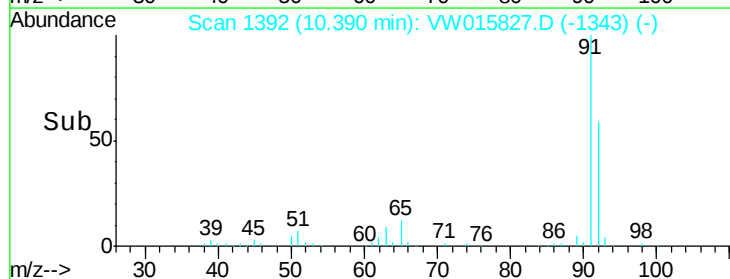
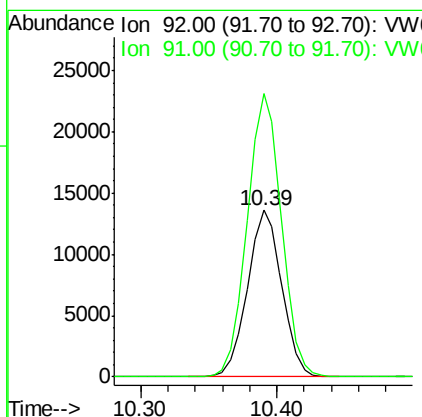
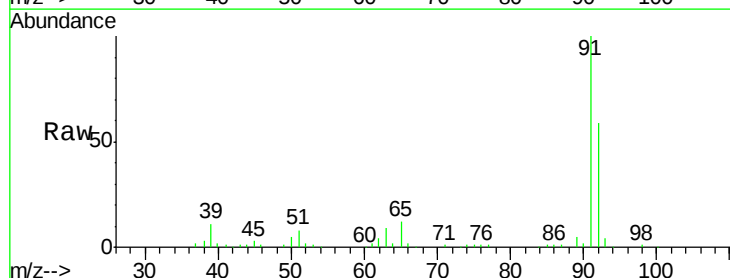
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

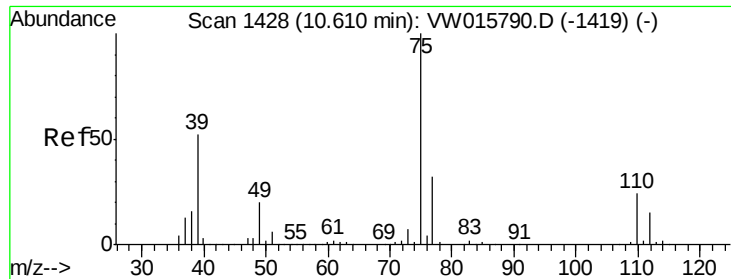
Tot Ion: 43 Resp: 23975
Ion Ratio Lower Upper
43 100
58 37.6 30.9 46.3



#52
Toluene
Concen: 4.332 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 92 Resp: 23905
Ion Ratio Lower Upper
92 100
91 170.4 137.1 205.7

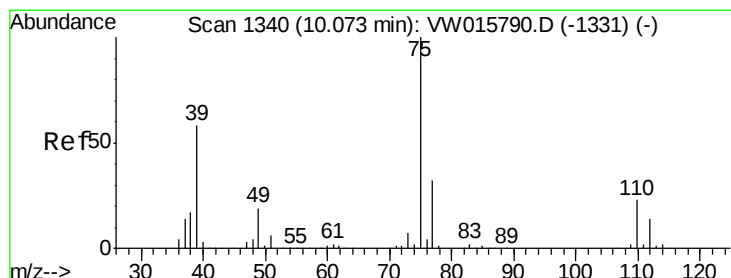
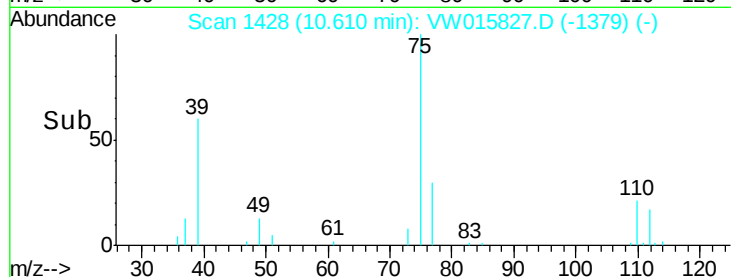
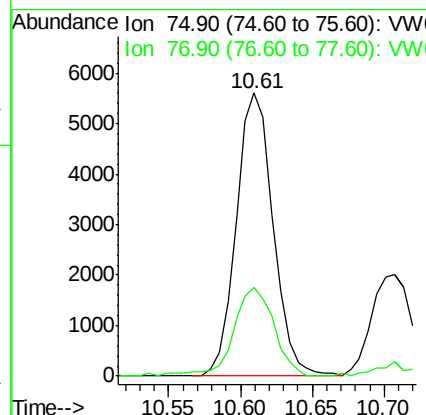
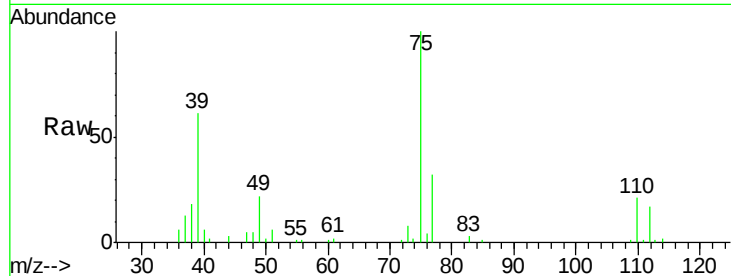




#53
 t-1,3-Dichloropropene
 Concen: 3.710 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

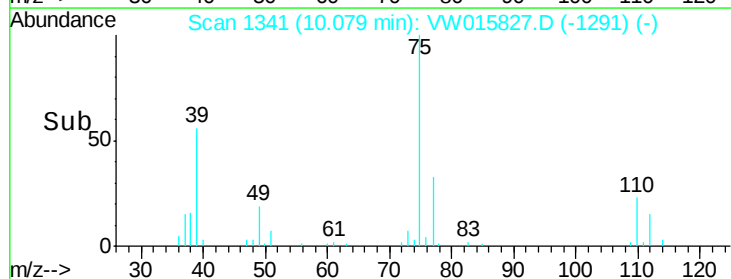
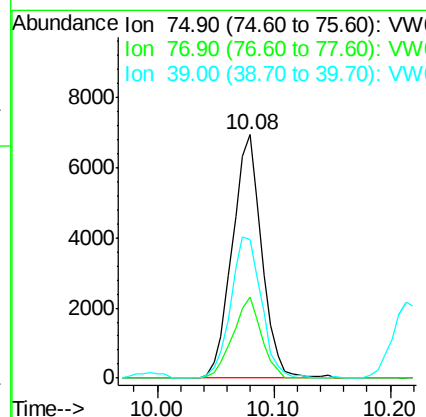
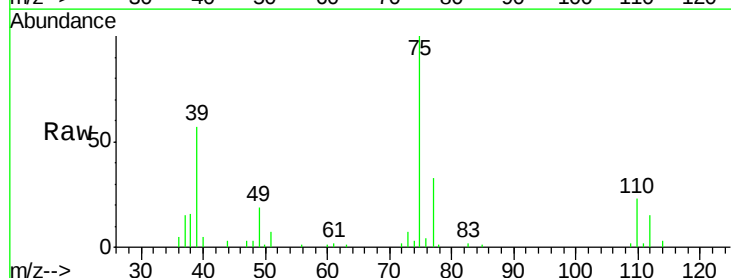
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

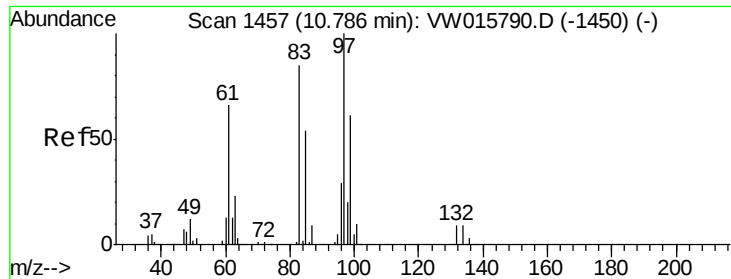
Tot Ion: 75 Resp: 9990
 Ion Ratio Lower Upper
 75 100
 77 30.6 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 3.802 ug/l
 RT: 10.08 min Scan# 1341
 Delta R.T. 0.01 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 75 Resp: 12246
 Ion Ratio Lower Upper
 75 100
 77 33.1 25.2 37.8
 39 56.8 46.0 69.0

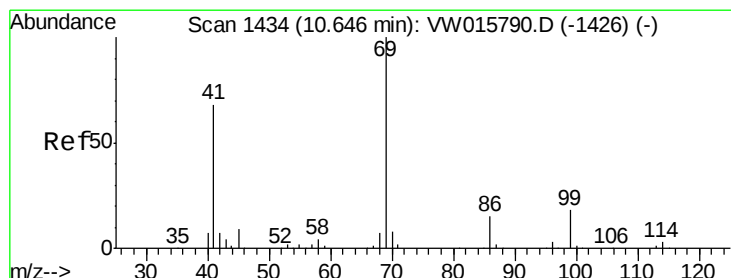
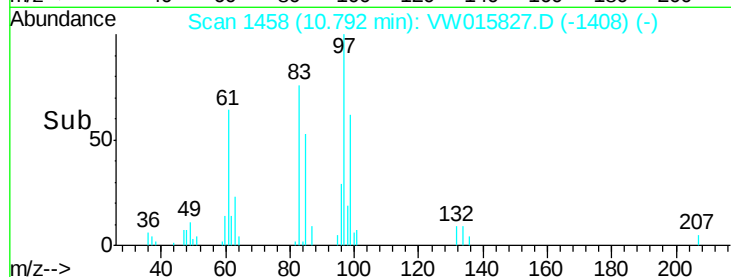
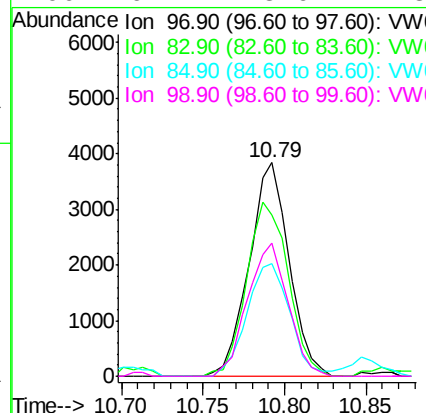
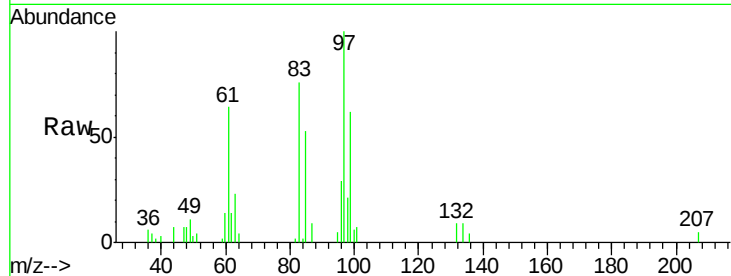




#55
 1,1,2-Trichloroethane
 Concen: 4.361 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

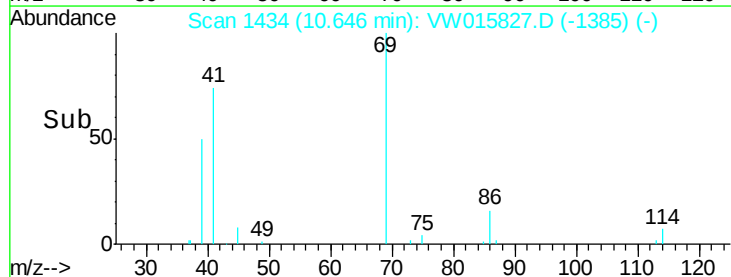
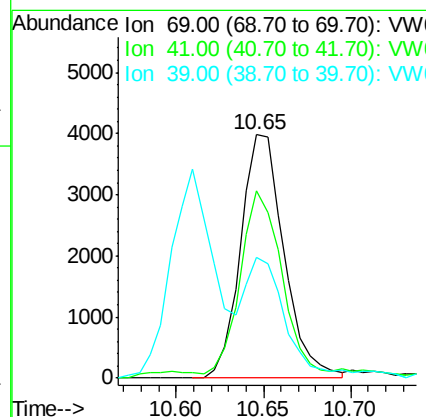
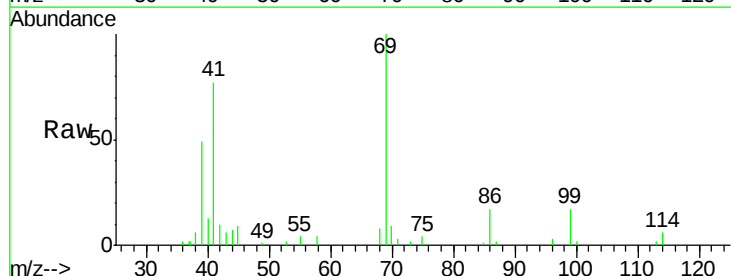
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

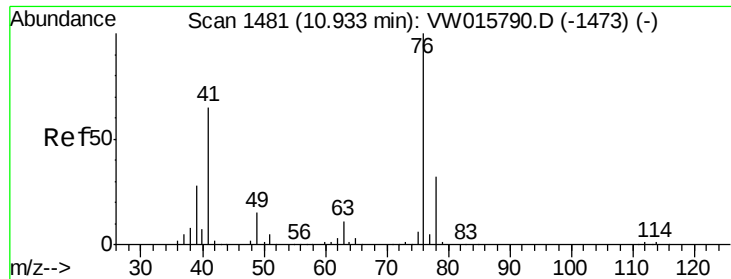
Tot Ion: 97 Resp: 6562
 Ion Ratio Lower Upper
 97 100
 83 75.6 68.2 102.4
 85 52.8 43.4 65.0
 99 62.2 48.6 72.8



#56
 Ethyl methacrylate
 Concen: 3.720 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 69 Resp: 6881
 Ion Ratio Lower Upper
 69 100
 41 71.5 55.0 82.6
 39 47.8 33.8 50.8

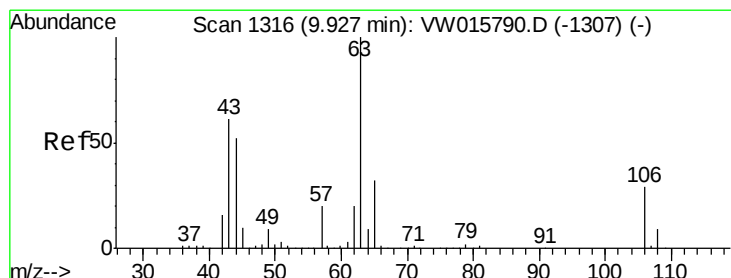
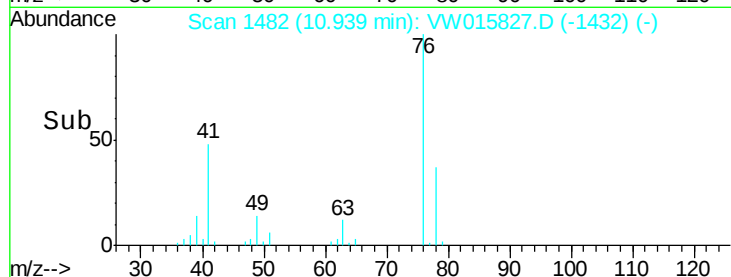
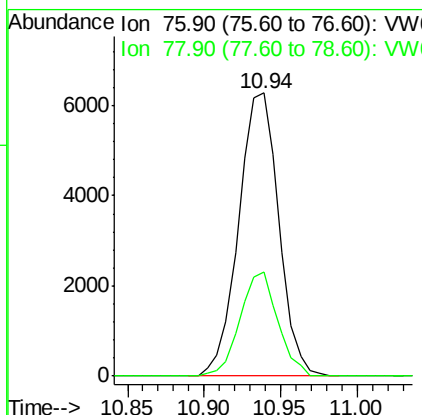
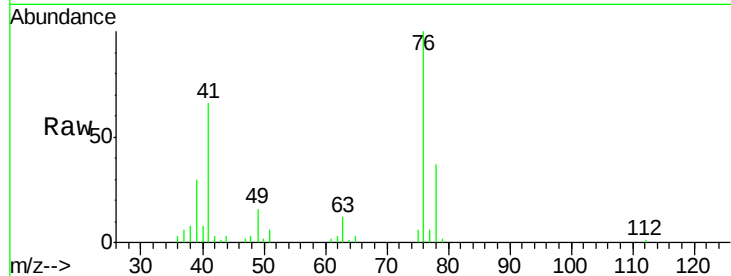




#57
 1,3-Dichloropropane
 Concen: 4.289 ug/l
 RT: 10.94 min Scan# 1482
 Delta R.T. 0.01 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

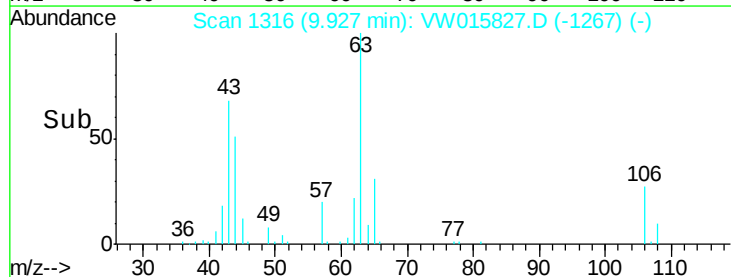
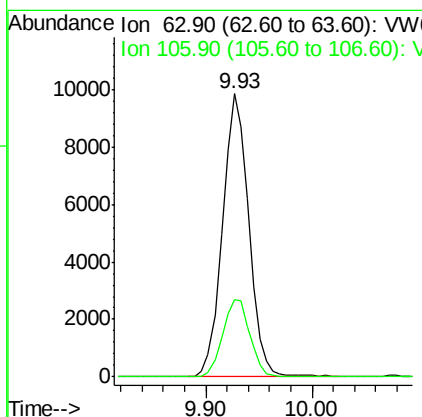
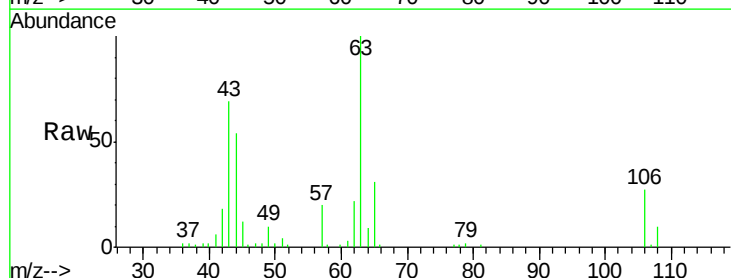
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

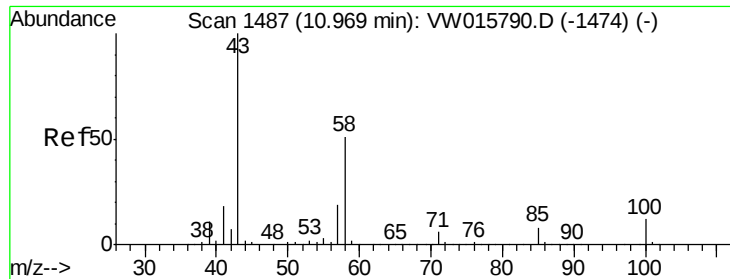
Tot Ion: 76 Resp: 11423
 Ion Ratio Lower Upper
 76 100
 78 34.7 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.758 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 63 Resp: 16954
 Ion Ratio Lower Upper
 63 100
 106 28.2 23.1 34.7

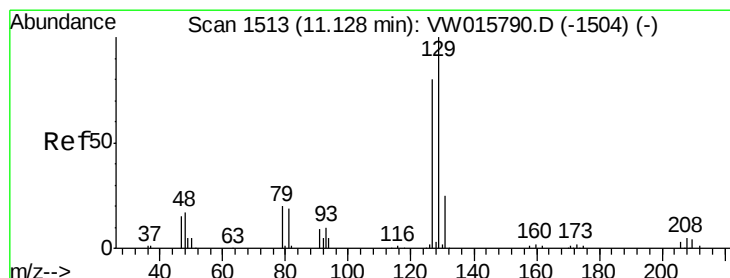
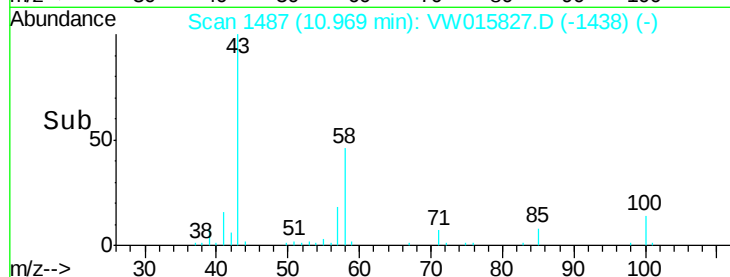
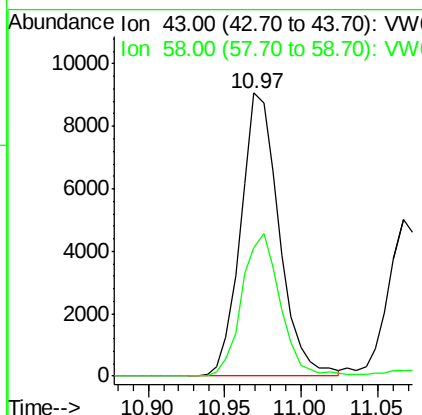
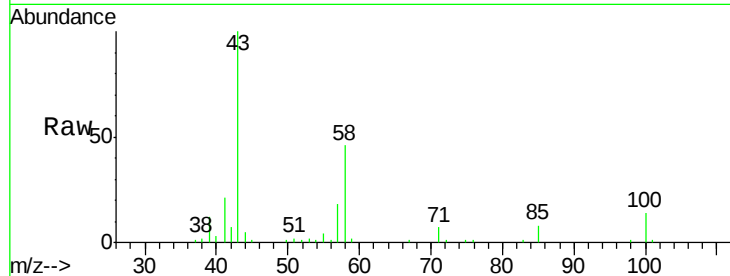




#59
2-Hexanone
Concen: 20.471 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

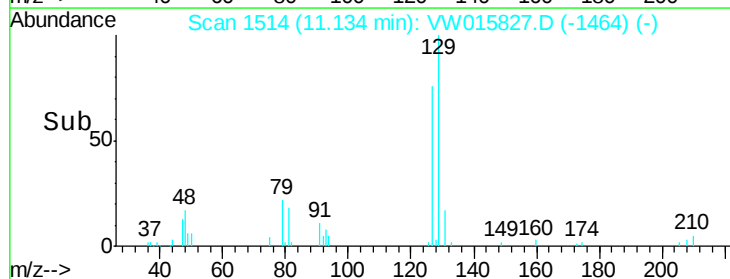
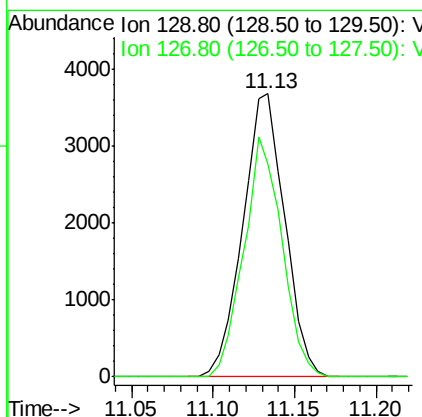
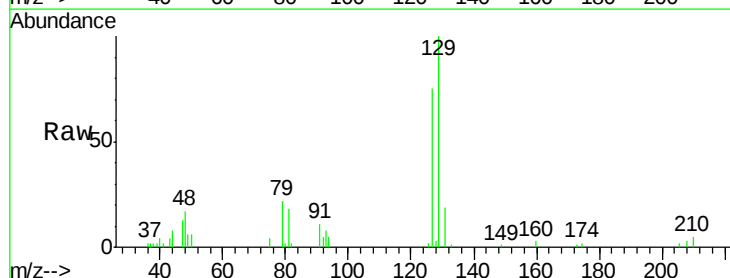
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

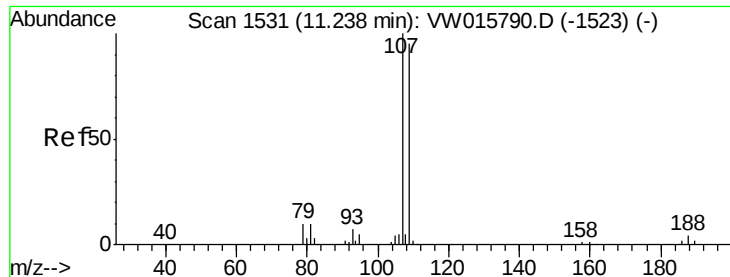
Tot Ion: 43 Resp: 15827
Ion Ratio Lower Upper
43 100
58 50.5 26.2 78.5



#60
Dibromochloromethane
Concen: 3.792 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 129 Resp: 6590
Ion Ratio Lower Upper
129 100
127 77.1 39.4 118.1





#61

1,2-Dibromoethane

Concen: 4.237 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

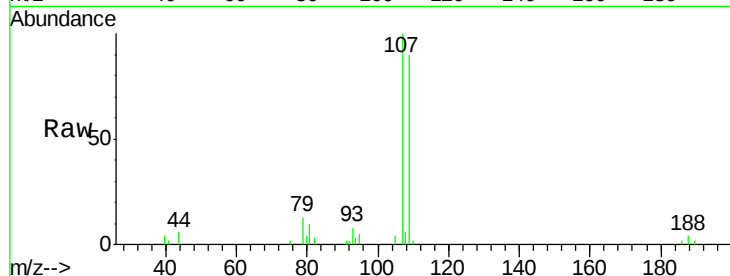
MDL-SOIL-03-QT3-2020DL

Tot Ion: 107 Resp: 6100

Ion Ratio Lower Upper

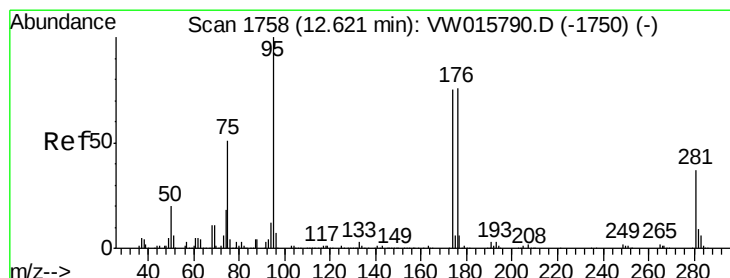
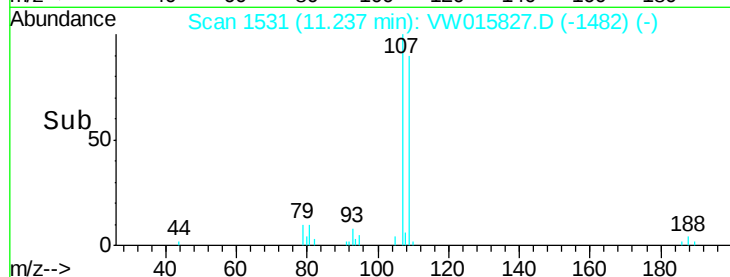
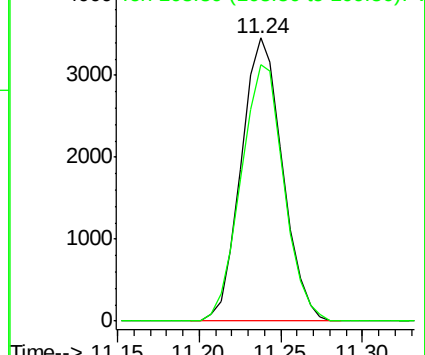
107 100

109 93.9 77.0 115.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.500 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

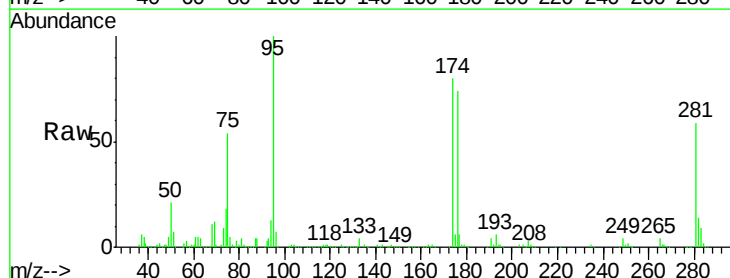
Tgt Ion: 95 Resp: 121421

Ion Ratio Lower Upper

95 100

174 76.6 0.0 150.2

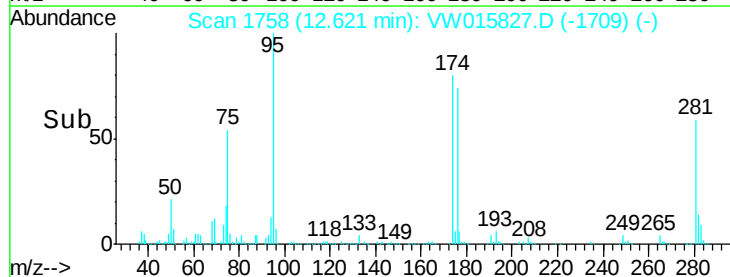
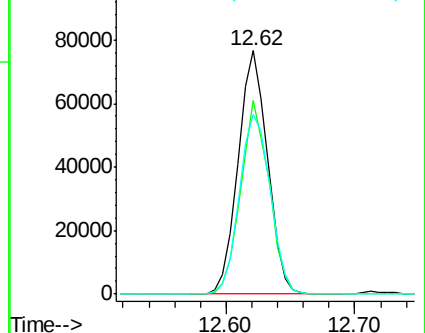
176 77.3 0.0 148.4

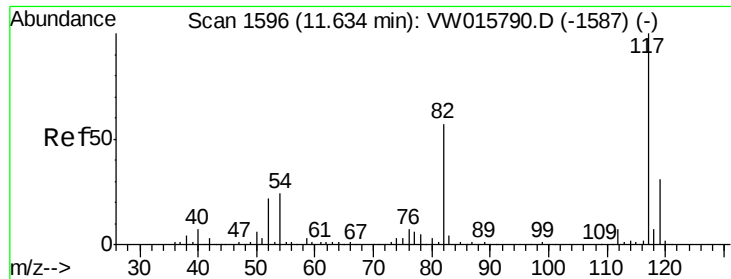


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

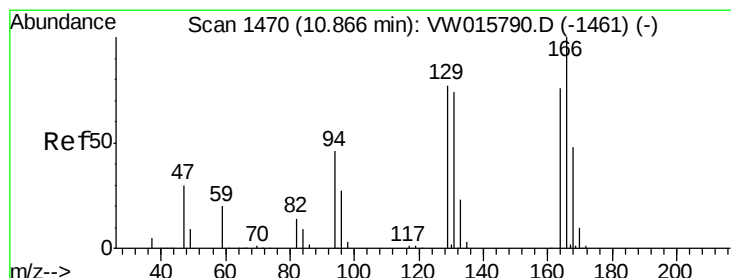
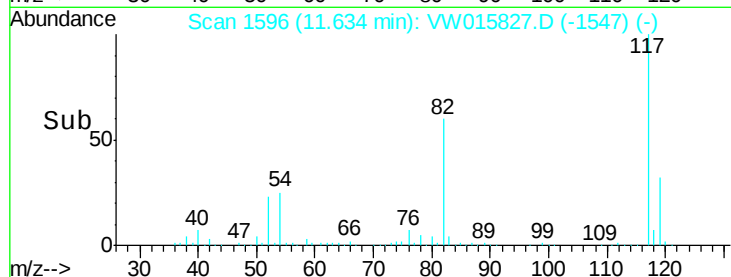
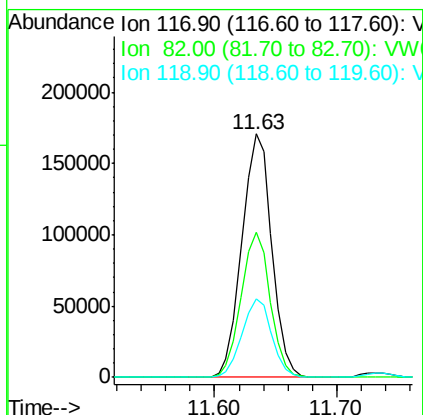
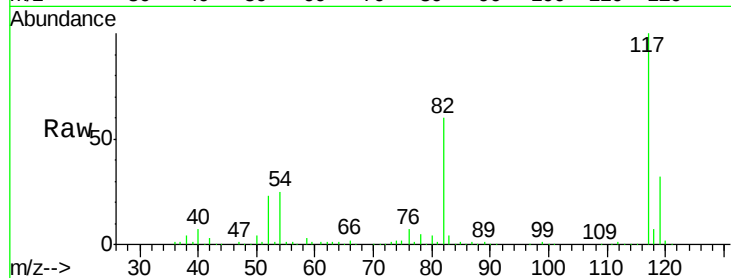




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

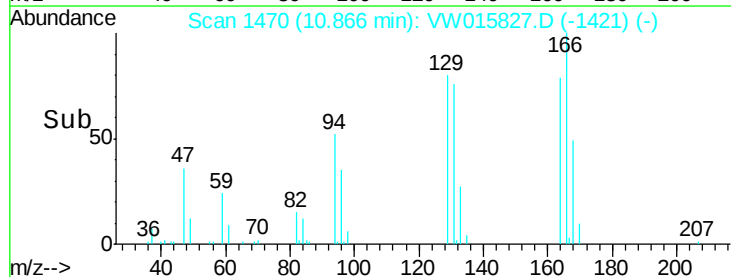
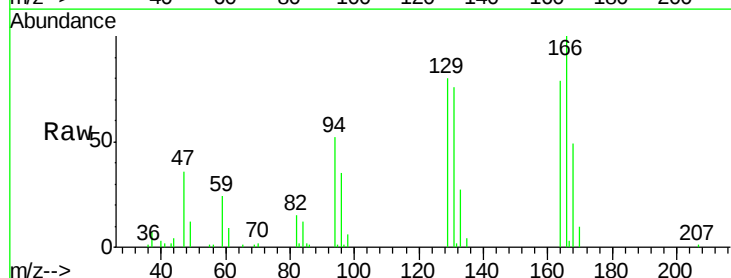
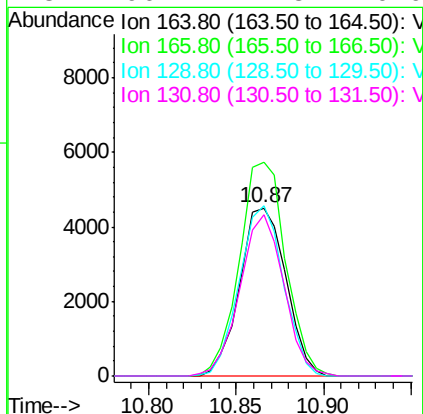
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

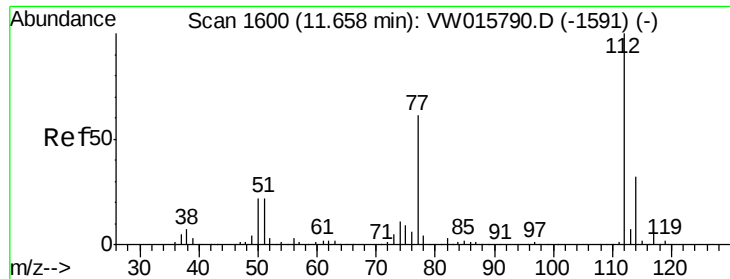
Tot Ion:117 Resp: 288873
Ion Ratio Lower Upper
117 100
82 59.7 45.5 68.3
119 32.3 25.0 37.6



#64
Tetrachloroethene
Concen: 4.520 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:164 Resp: 8263
Ion Ratio Lower Upper
164 100
166 127.2 105.1 157.7
129 101.3 80.6 121.0
131 96.2 77.8 116.6

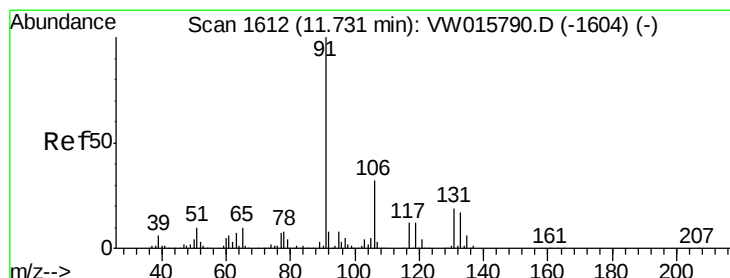
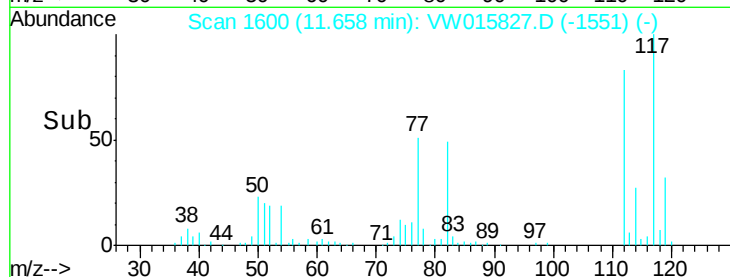
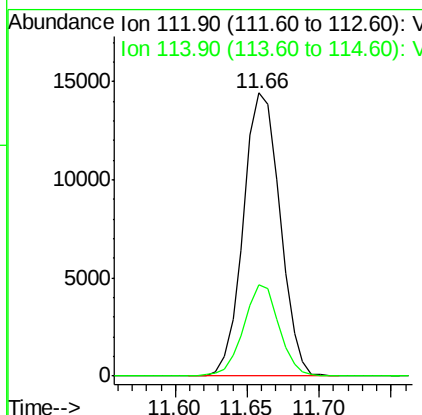
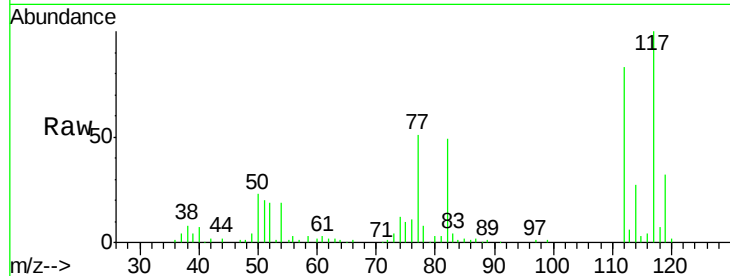




#65
Chlorobenzene
Concen: 4.501 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

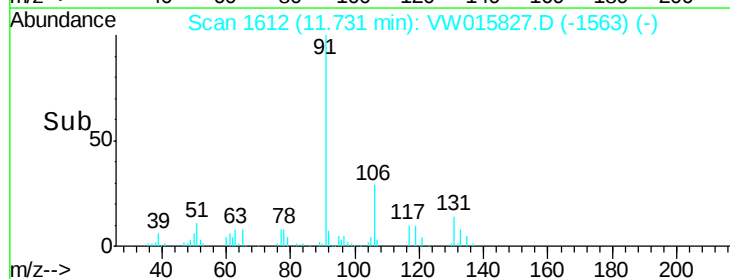
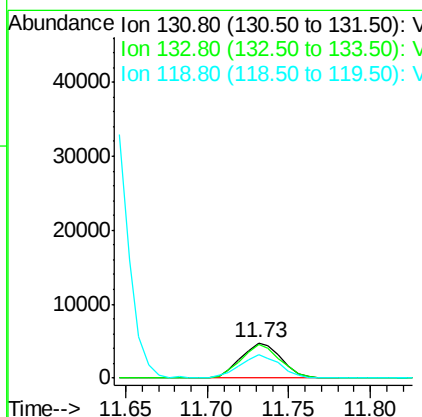
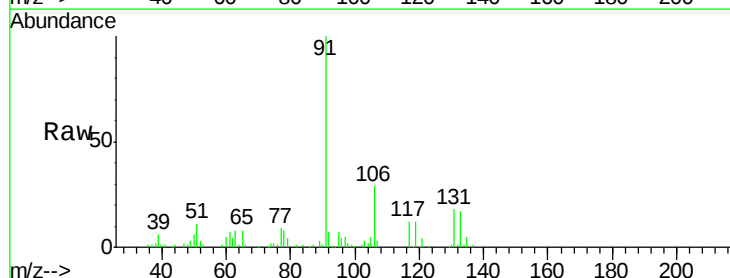
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

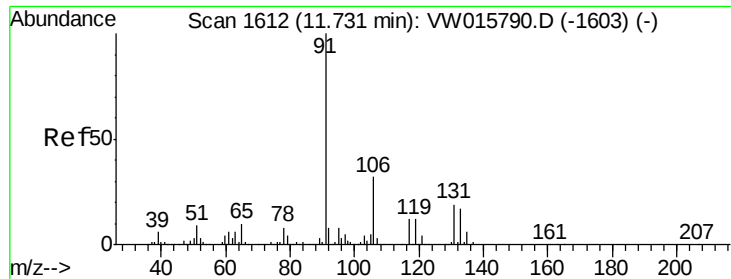
Tot Ion:112 Resp: 25428
Ion Ratio Lower Upper
112 100
114 32.2 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 4.115 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:131 Resp: 8226
Ion Ratio Lower Upper
131 100
133 92.6 47.0 141.2
119 66.3 32.3 96.8

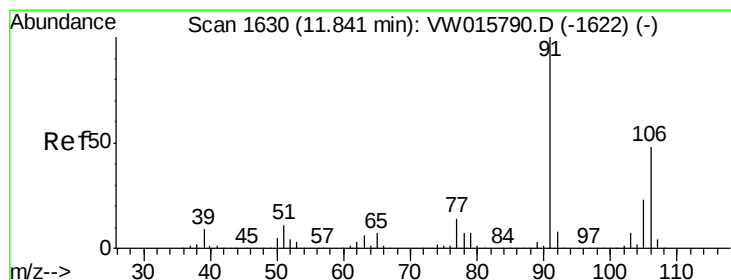
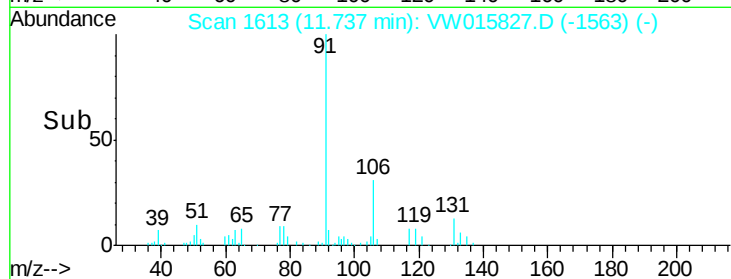
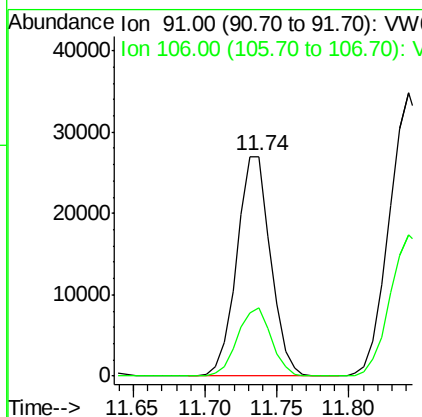
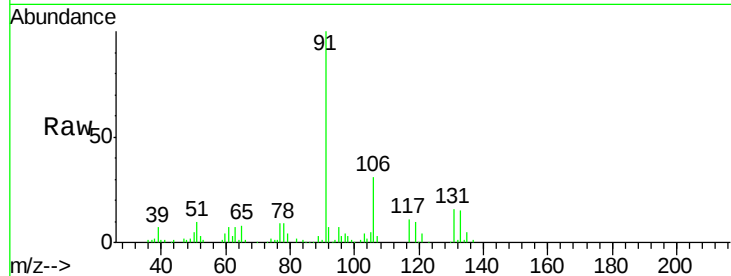




#67
Ethyl Benzene
Concen: 4.221 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

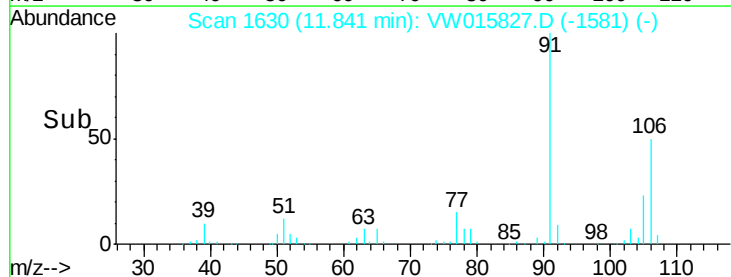
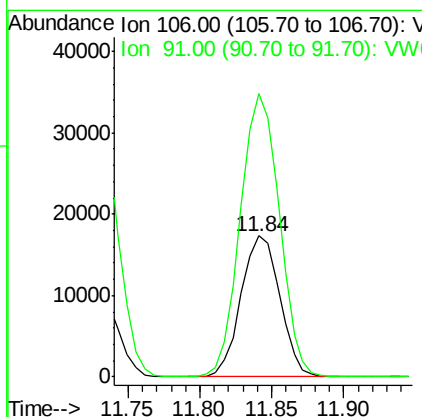
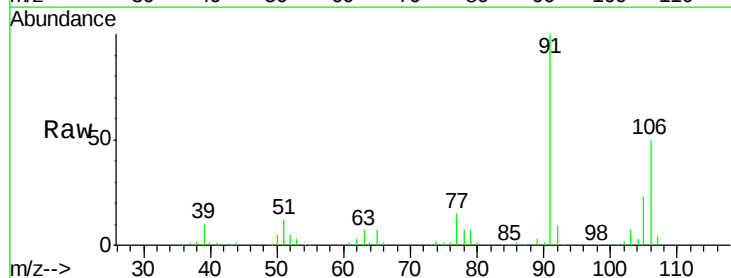
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

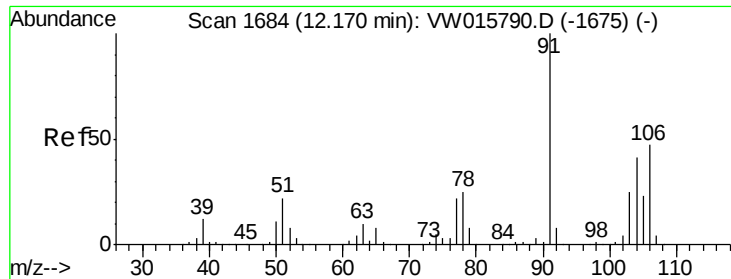
Tot Ion: 91 Resp: 44160
Ion Ratio Lower Upper
91 100
106 31.0 25.8 38.8



#68
m/p-Xylenes
Concen: 8.270 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 106 Resp: 32499
Ion Ratio Lower Upper
106 100
91 202.3 164.1 246.1

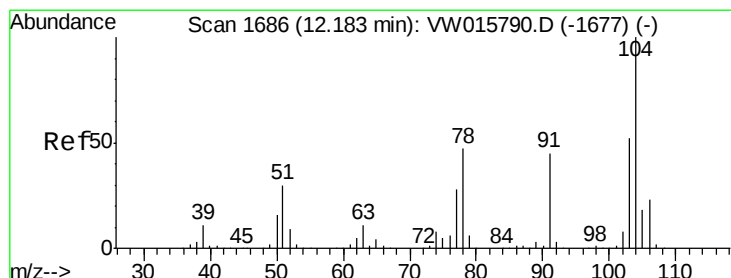
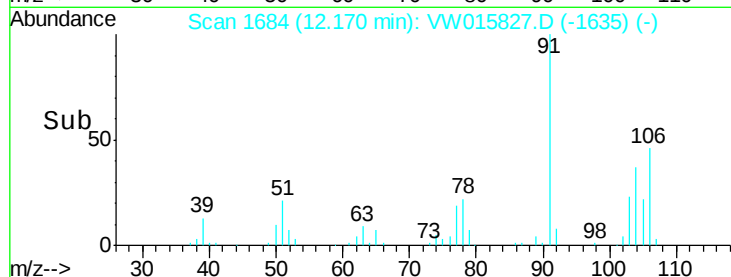
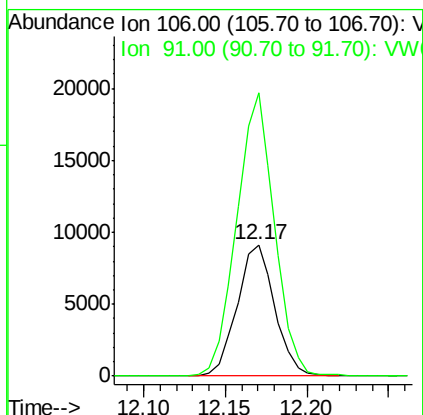
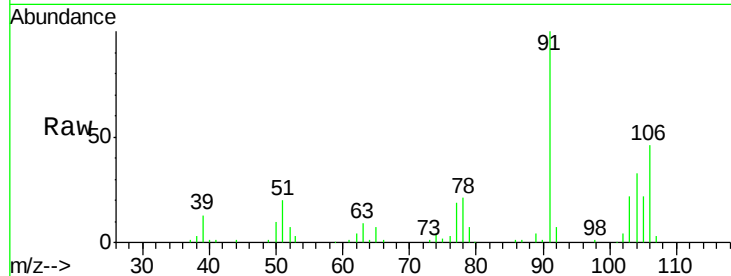




#69
o-Xylene
Concen: 4.062 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

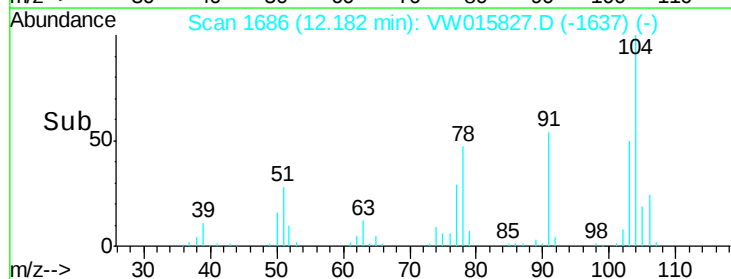
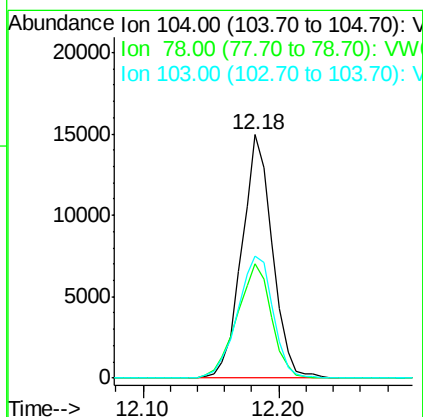
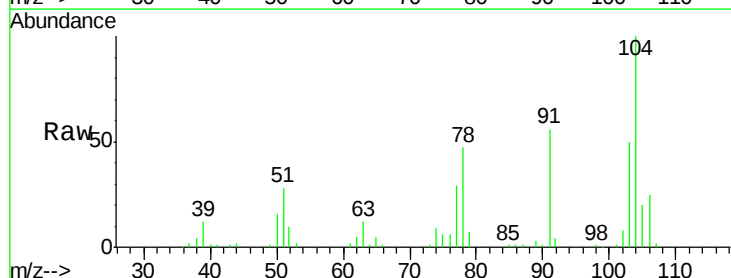
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

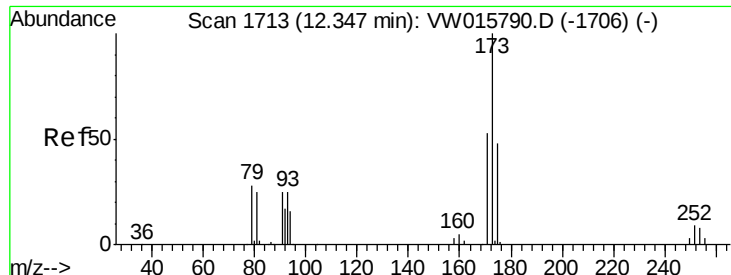
Tot Ion:106 Resp: 14570
Ion Ratio Lower Upper
106 100
91 217.5 108.5 325.3



#70
Styrene
Concen: 3.808 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:104 Resp: 23506
Ion Ratio Lower Upper
104 100
78 52.6 41.0 61.4
103 58.1 43.8 65.8

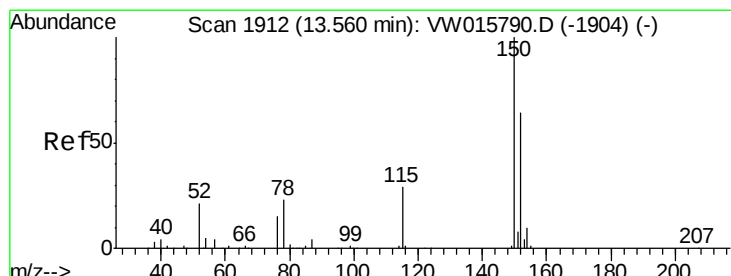
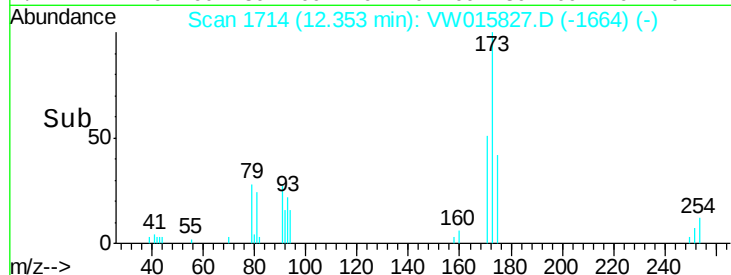
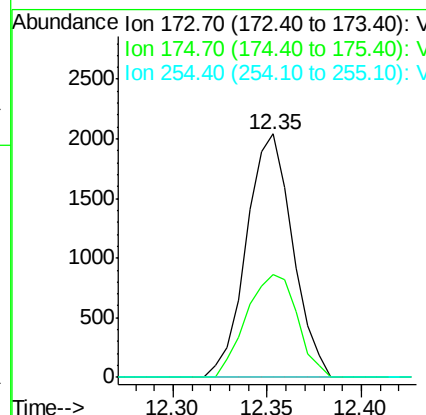
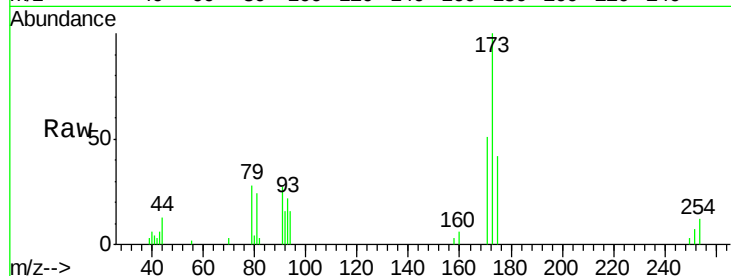




#71
Bromoform
Concen: 3.793 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

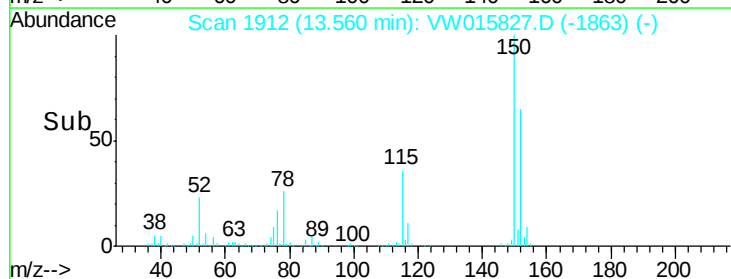
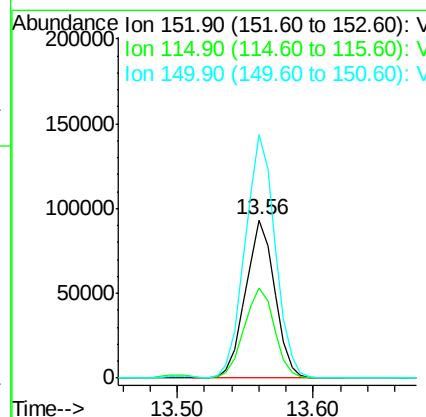
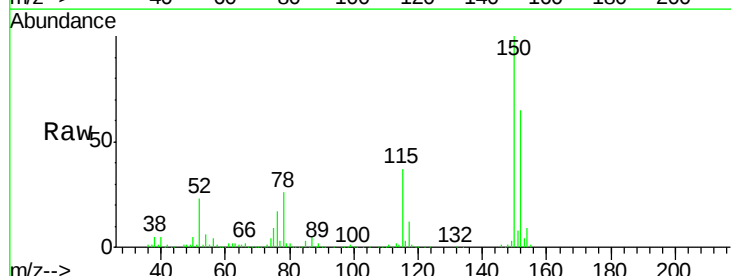
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:173 Resp: 3461
Ion Ratio Lower Upper
173 100
175 46.7 23.5 70.5
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:152 Resp: 141281
Ion Ratio Lower Upper
152 100
115 58.8 29.9 89.7
150 157.5 0.0 350.8





#73

Isopropylbenzene

Concen: 4.072 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

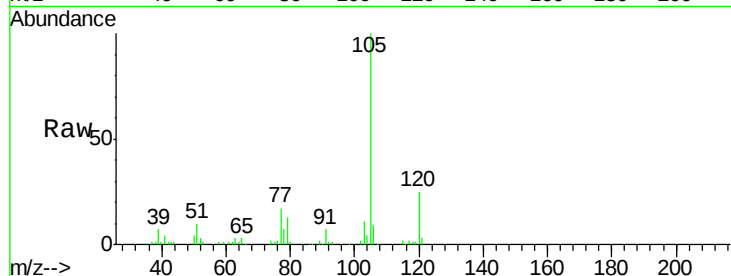
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 40528

Ion Ratio Lower Upper

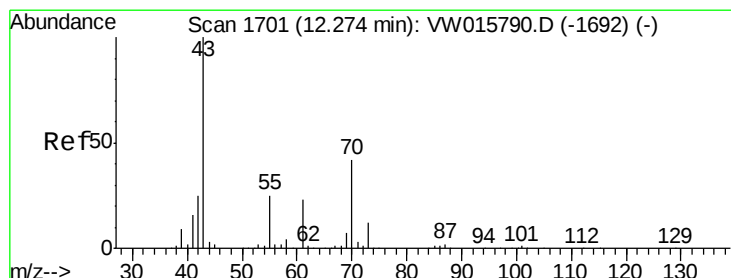
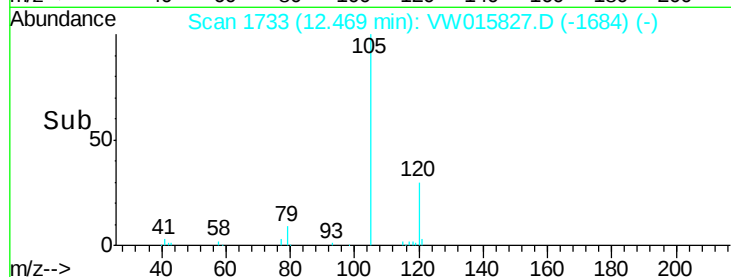
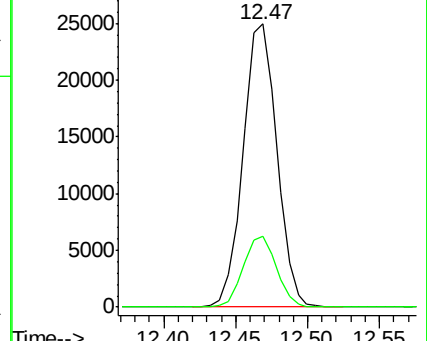
105 100

120 24.7 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.859 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Tgt Ion: 43 Resp: 8218

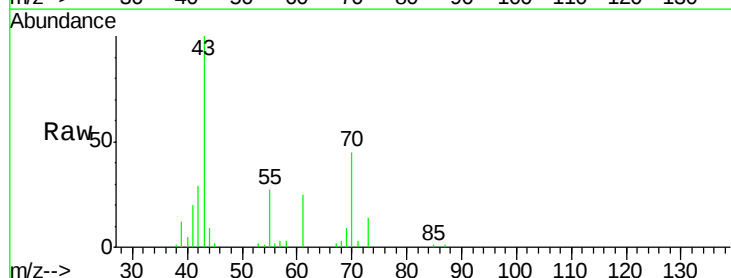
Ion Ratio Lower Upper

43 100

70 41.7 34.1 51.1

55 25.2 20.0 30.0

61 23.9 19.0 28.6

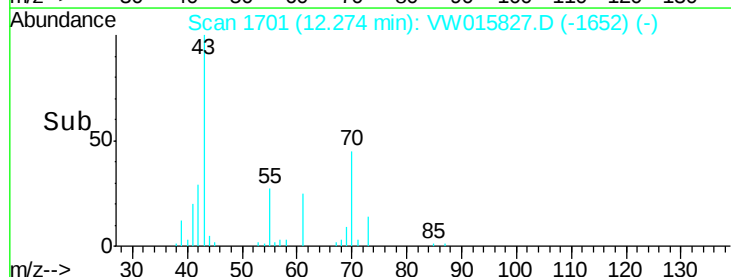
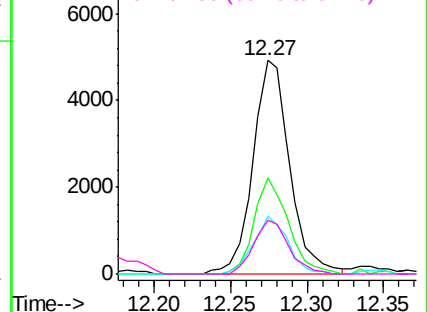


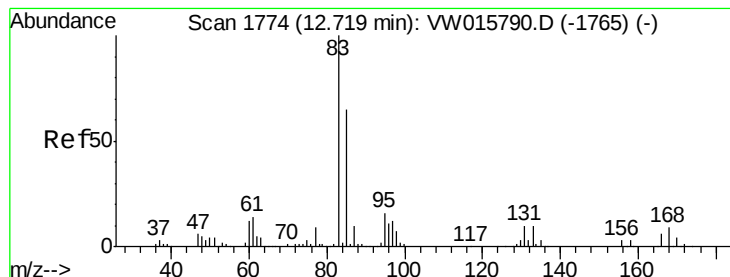
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 4.465 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

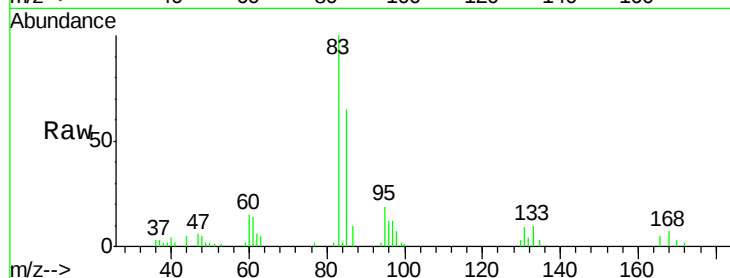
Tot Ion: 83 Resp: 7384

Ion Ratio Lower Upper

83 100

131 9.8 5.3 16.1

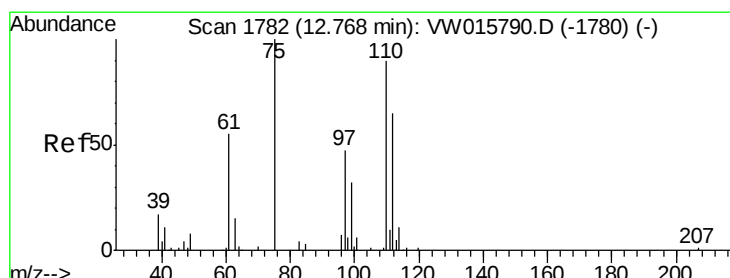
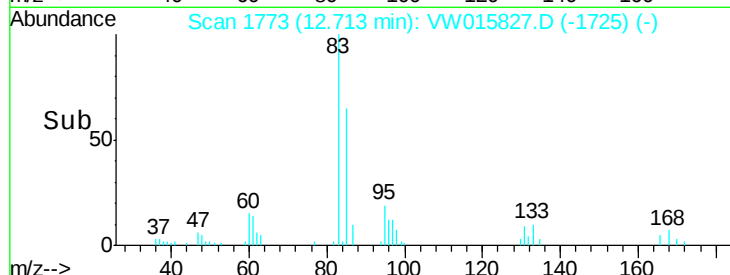
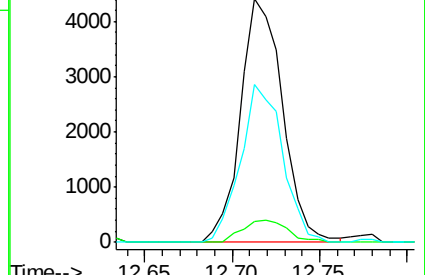
85 64.7 31.9 95.9



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: 5.143 ug/l m

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW015827.D

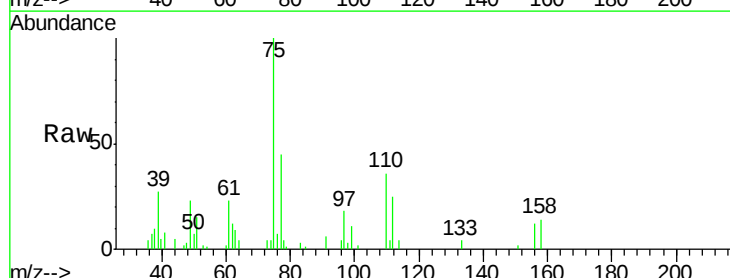
Acq: 09 Jul 2020 14:40

Tgt Ion: 75 Resp: 6386

Ion Ratio Lower Upper

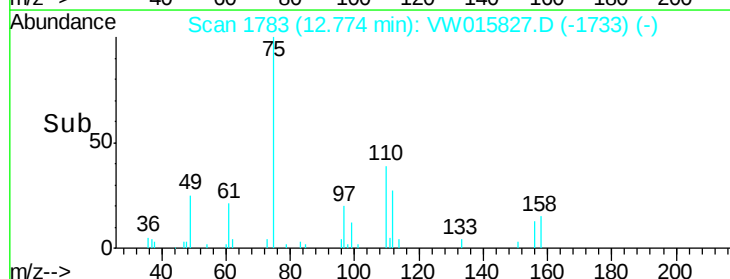
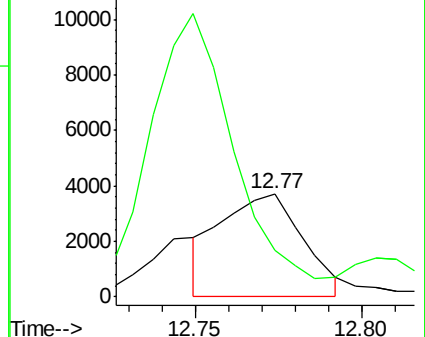
75 100

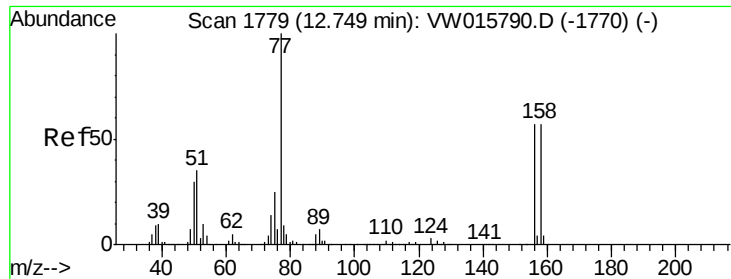
77 0.0 177.3 532.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 4.338 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

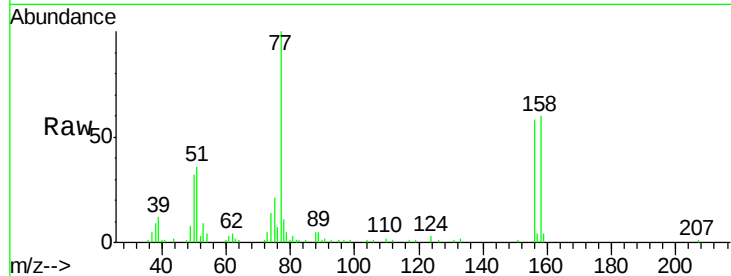
Tot Ion:156 Resp: 9682

Ion Ratio Lower Upper

156 100

77 189.8 98.8 296.4

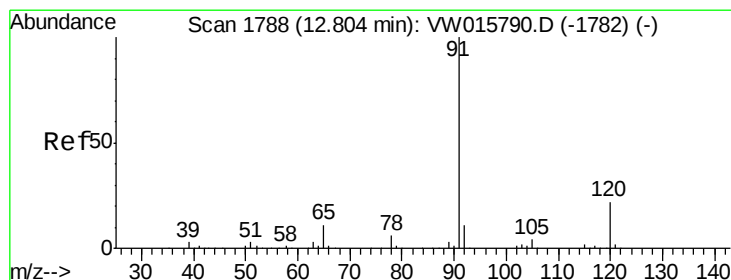
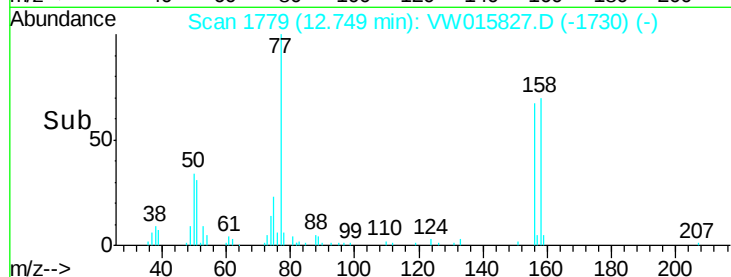
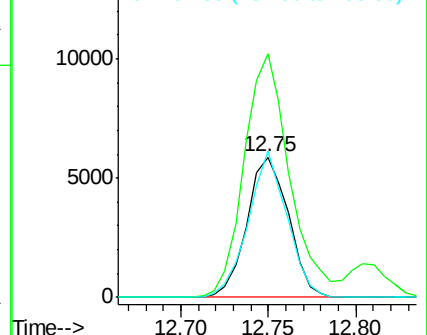
158 97.3 50.0 149.8



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: 4.229 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015827.D

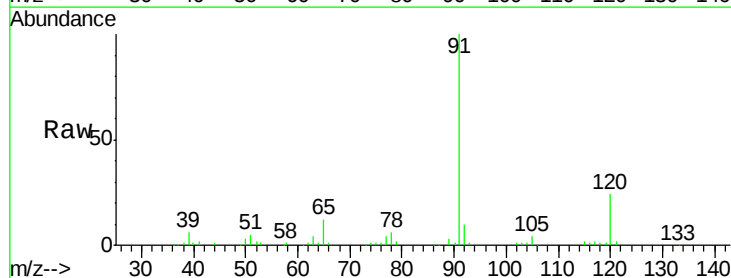
Acq: 09 Jul 2020 14:40

Tgt Ion: 91 Resp: 51086

Ion Ratio Lower Upper

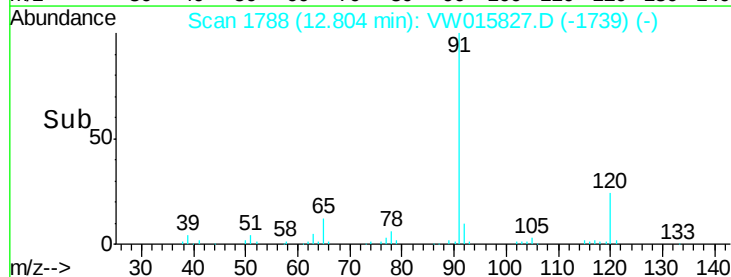
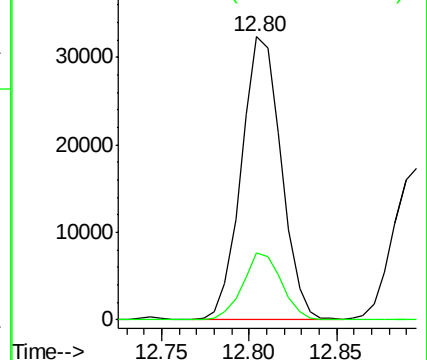
91 100

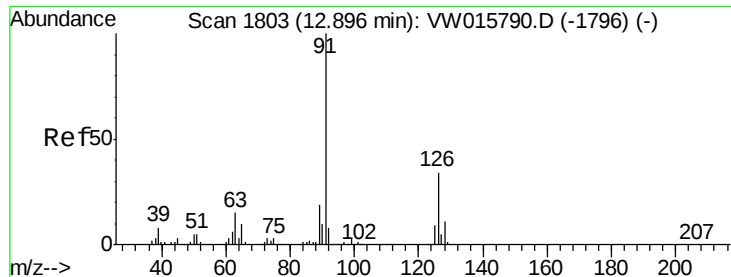
120 23.0 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

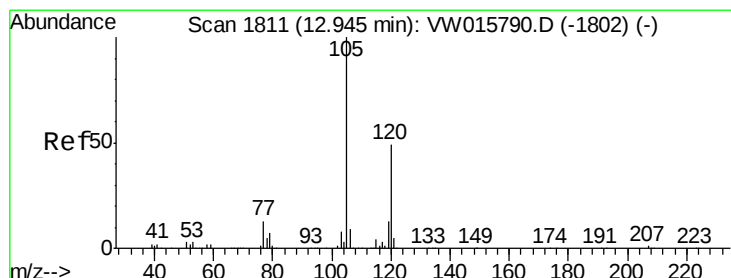
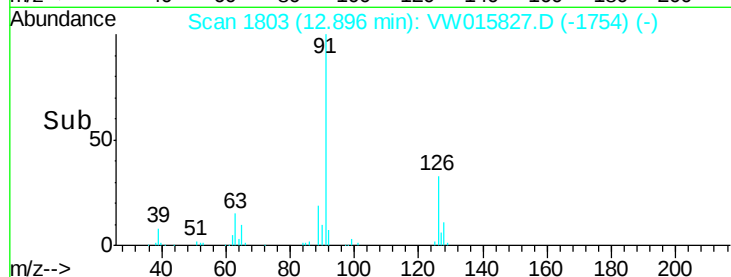
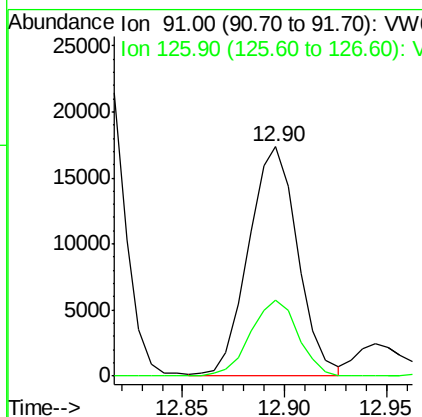
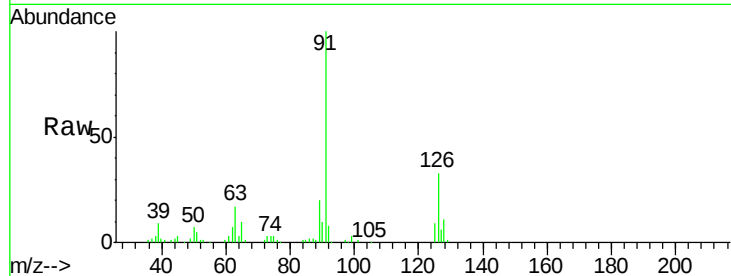




#79
 2-Chlorotoluene
 Concen: 4.208 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

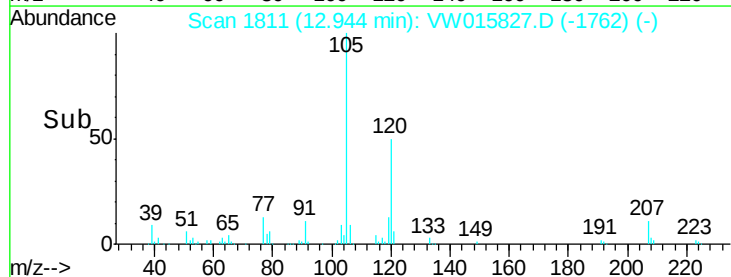
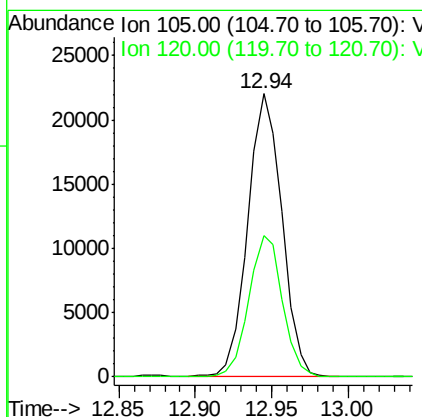
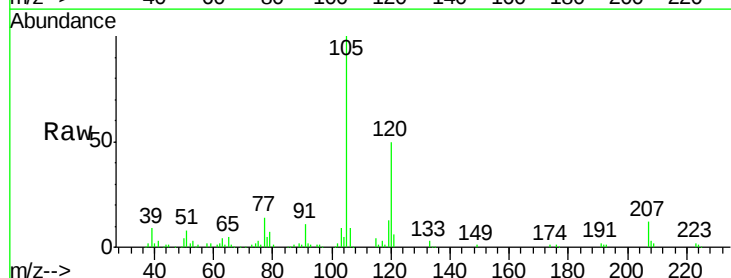
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

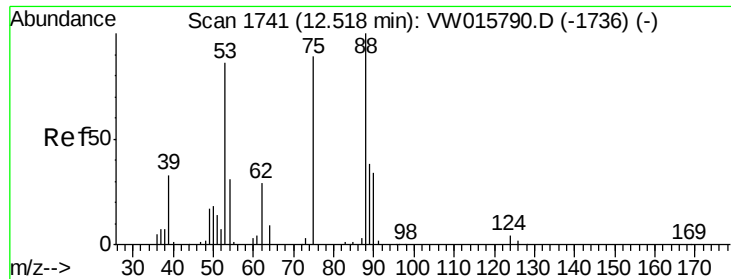
Tot Ion: 91 Resp: 28989
 Ion Ratio Lower Upper
 91 100
 126 32.5 16.5 49.5



#80
 1,3,5-Trimethylbenzene
 Concen: 4.029 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion: 105 Resp: 34179
 Ion Ratio Lower Upper
 105 100
 120 49.2 25.1 75.3

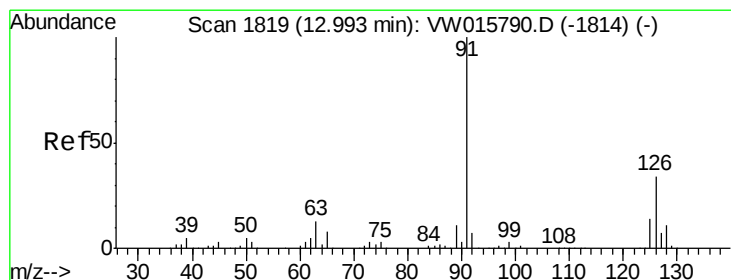
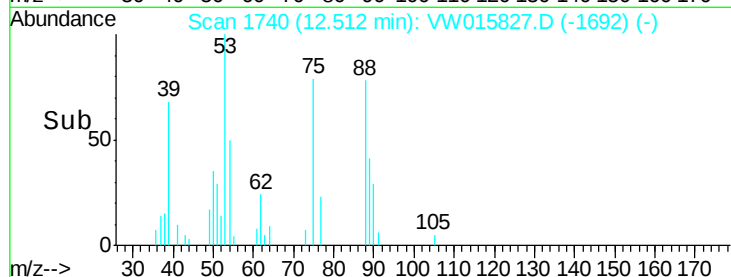
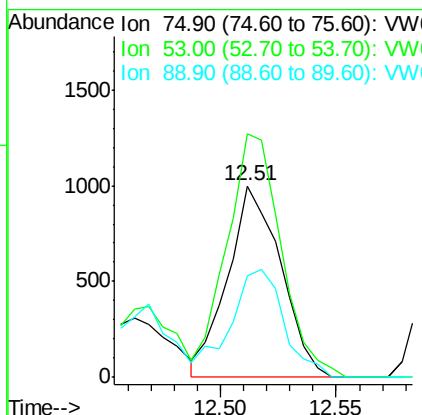
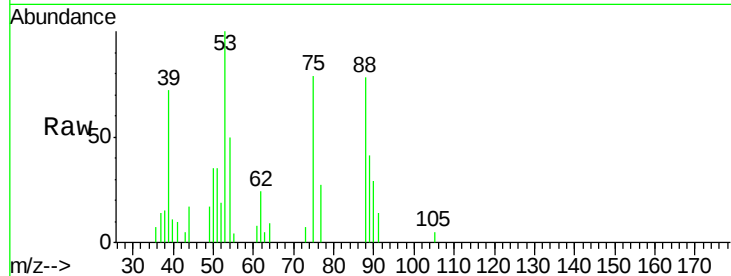




#81
trans-1,4-Dichloro-2-butene
Concen: 3.291 ug/l m
RT: 12.51 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

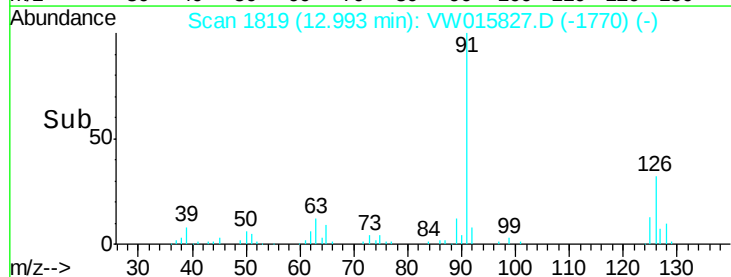
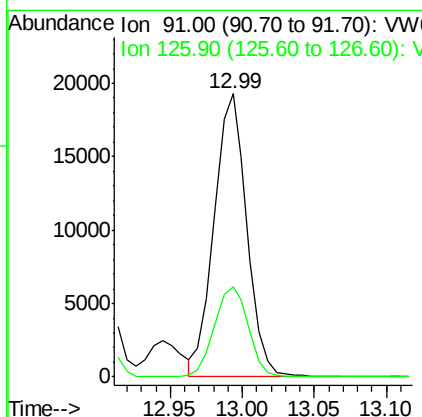
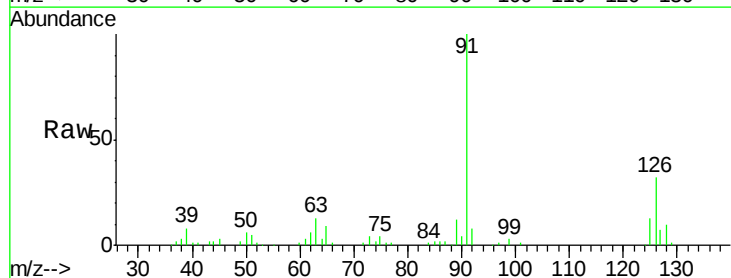
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

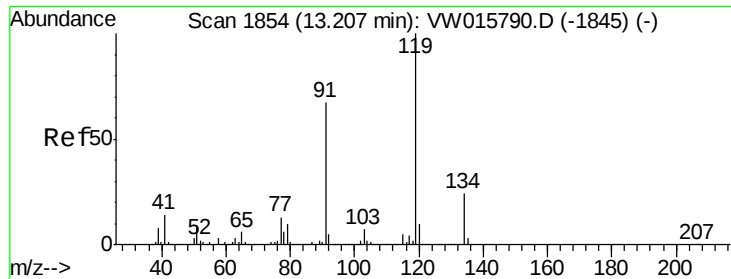
Tot Ion: 75 Resp: 1599
Ion Ratio Lower Upper
75 100
53 0.0 85.9 128.9#
89 33.8 36.2 54.4#



#82
4-Chlorotoluene
Concen: 4.262 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 91 Resp: 30660
Ion Ratio Lower Upper
91 100
126 33.1 16.3 48.9

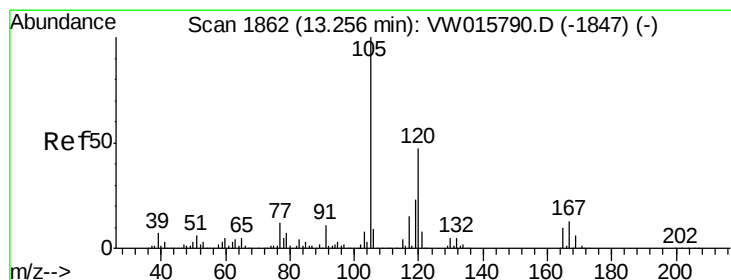
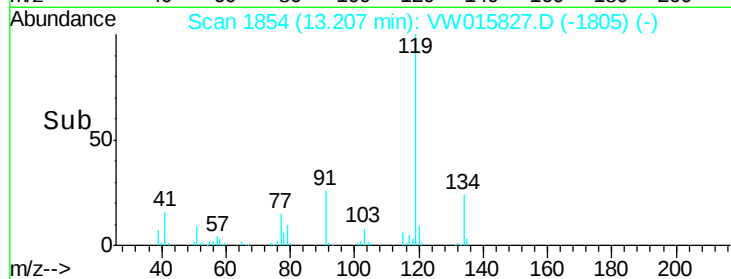
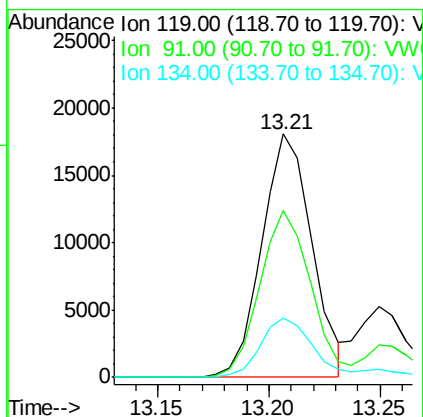
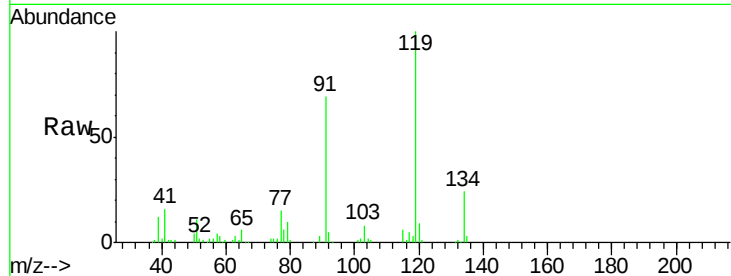




#83
tert-Butylbenzene
Concen: 4.002 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

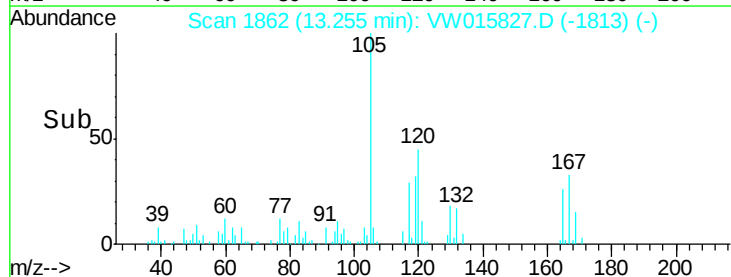
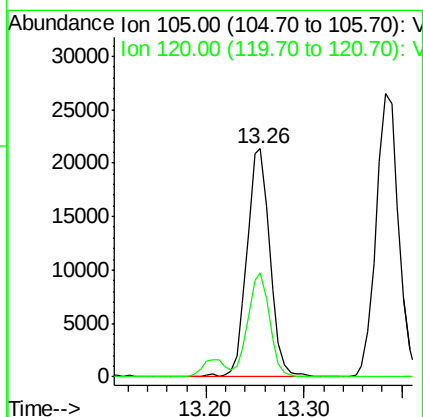
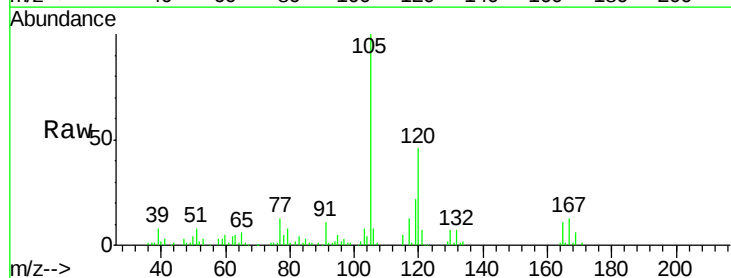
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

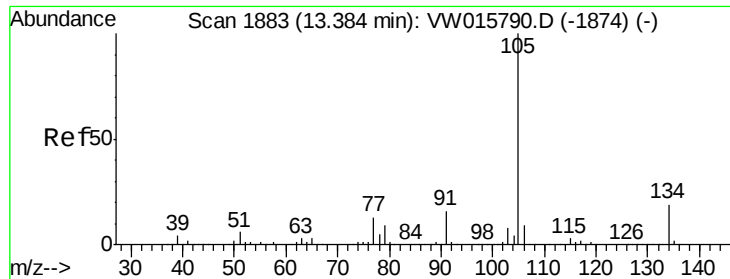
Tot Ion:119 Resp: 28181
Ion Ratio Lower Upper
119 100
91 70.2 34.4 103.3
134 25.1 13.6 40.7



#84
1,2,4-Trimethylbenzene
Concen: 4.115 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion:105 Resp: 34860
Ion Ratio Lower Upper
105 100
120 42.6 22.8 68.4

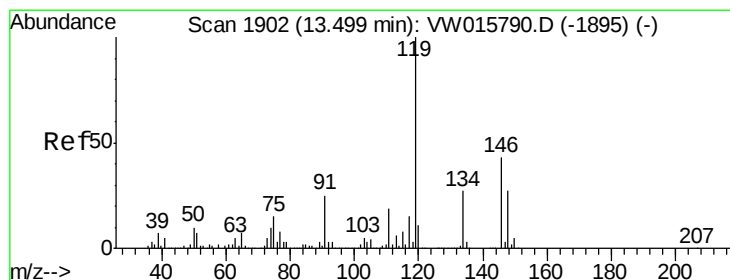
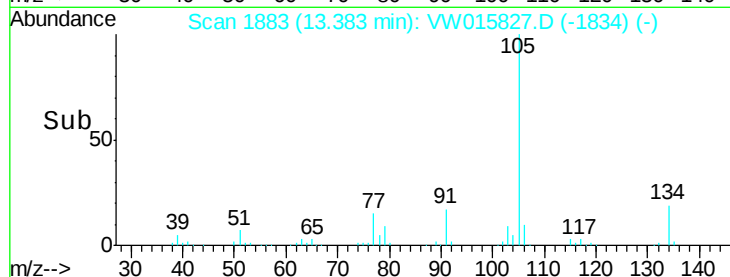
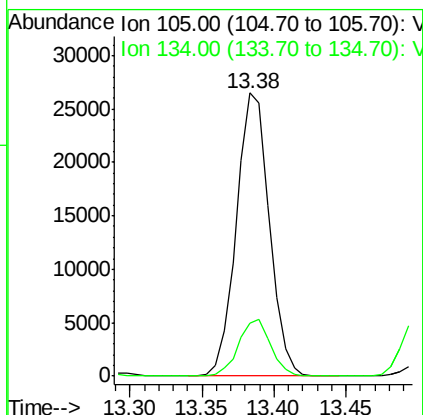
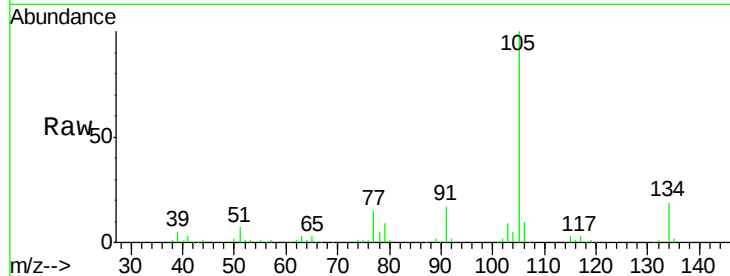




#85
 sec-Butylbenzene
 Concen: 4.145 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

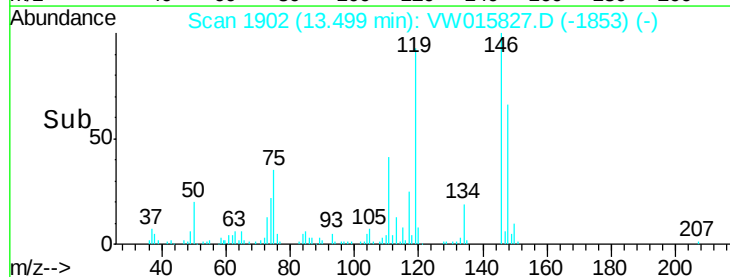
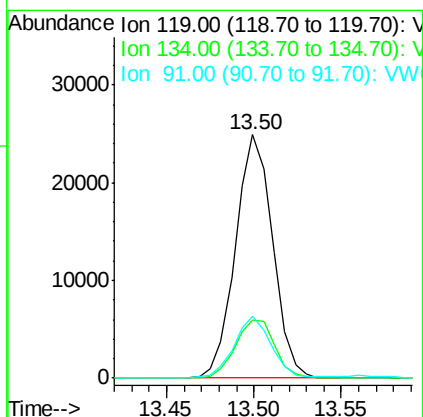
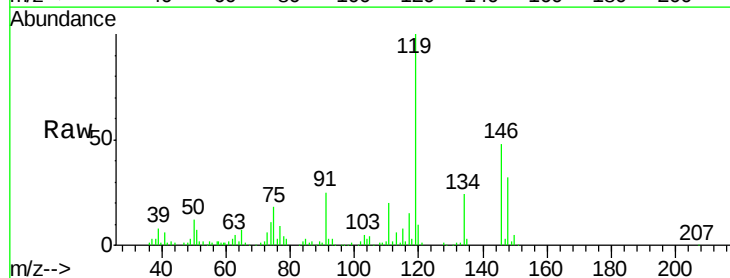
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

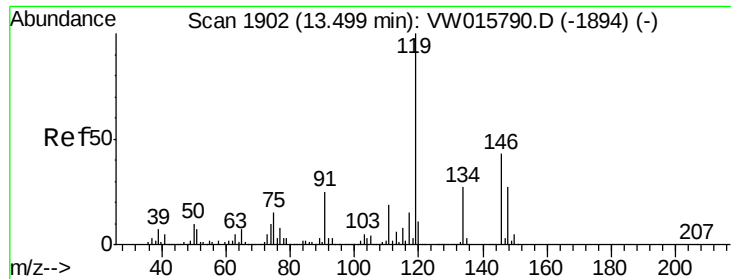
Tot Ion:105 Resp: 42156
 Ion Ratio Lower Upper
 105 100
 134 19.3 10.0 29.8



#86
 p-Isopropyltoluene
 Concen: 3.964 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion:119 Resp: 36818
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.2 39.6
 91 25.3 12.2 36.6

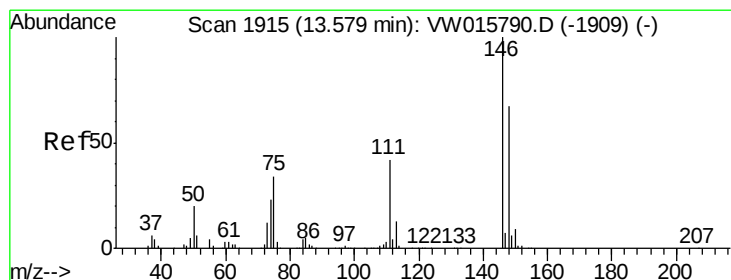
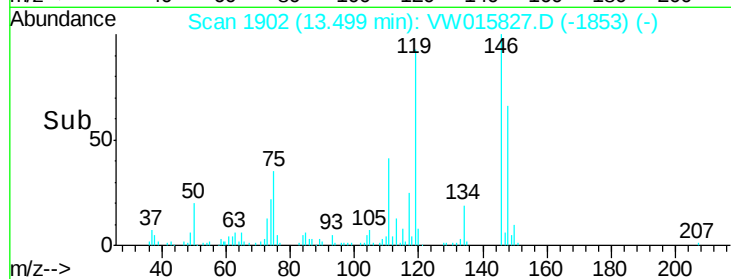
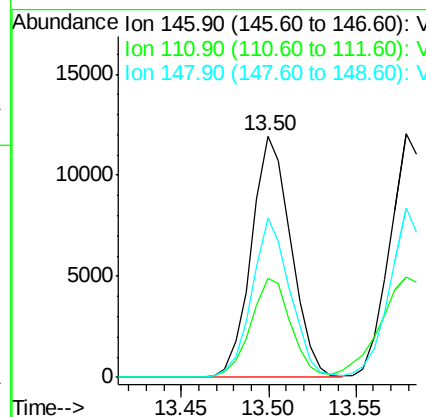
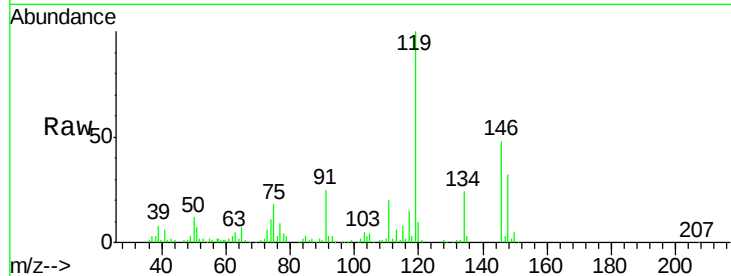




#87
 1,3-Dichlorobenzene
 Concen: 4.192 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

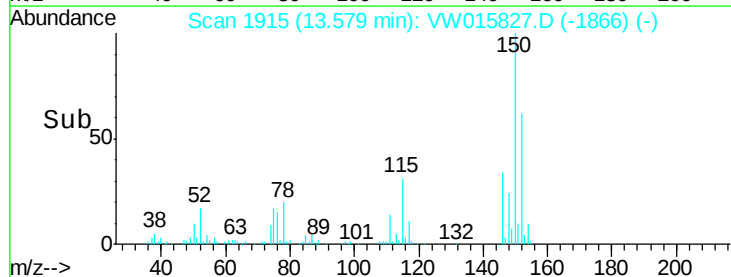
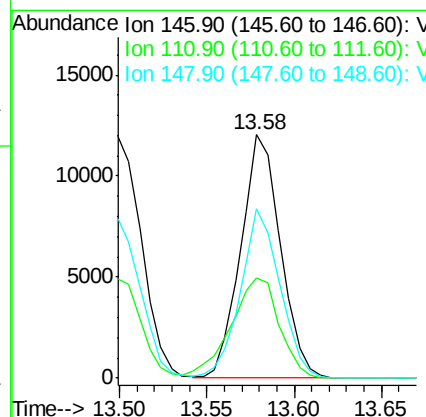
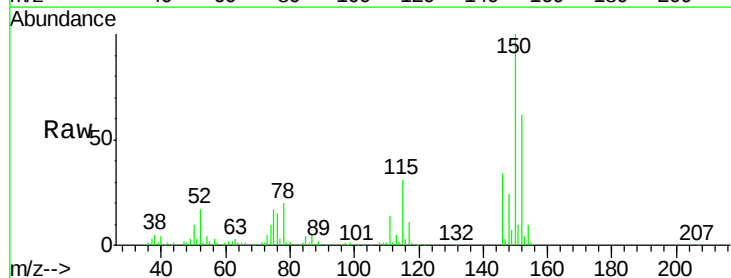
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

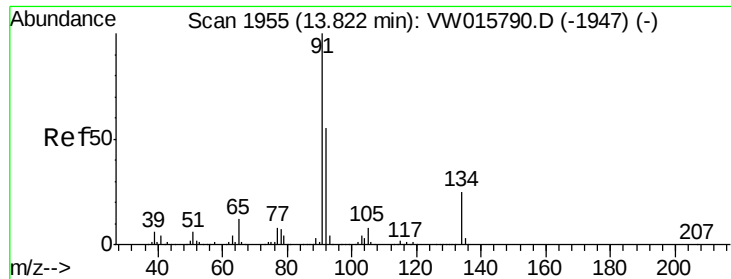
Tot Ion:146 Resp: 18755
 Ion Ratio Lower Upper
 146 100
 111 41.7 20.8 62.4
 148 63.7 31.4 94.2



#88
 1,4-Dichlorobenzene
 Concen: 4.339 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015827.D
 Acq: 09 Jul 2020 14:40

Tgt Ion:146 Resp: 19001
 Ion Ratio Lower Upper
 146 100
 111 50.2 20.2 60.6
 148 69.2 31.8 95.4

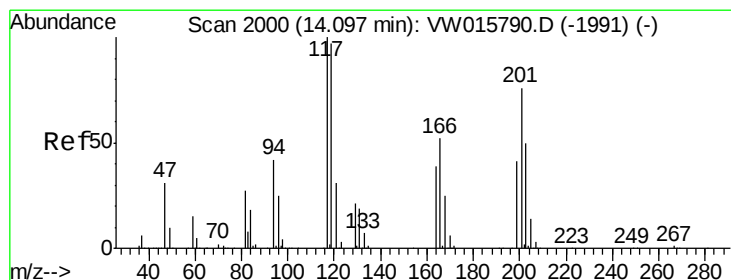
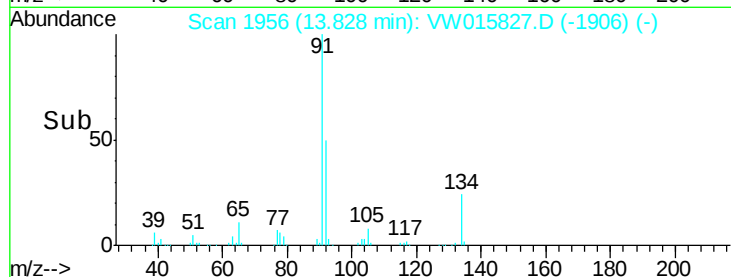
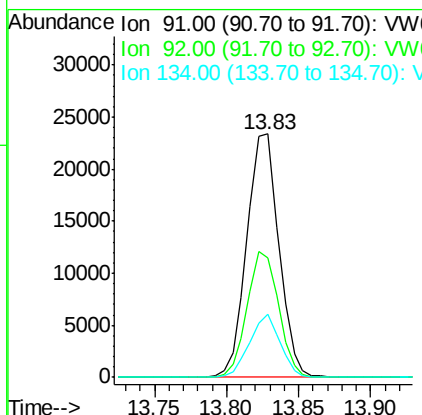
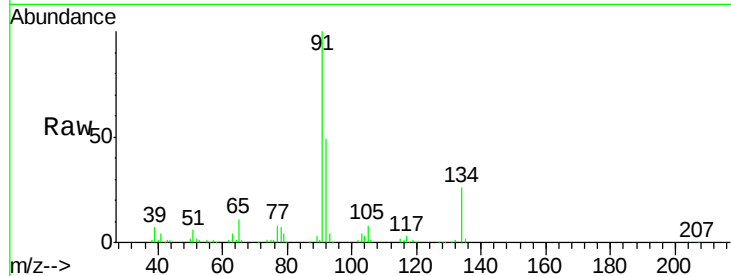




#89
n-Butylbenzene
Concen: 4.050 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.01 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

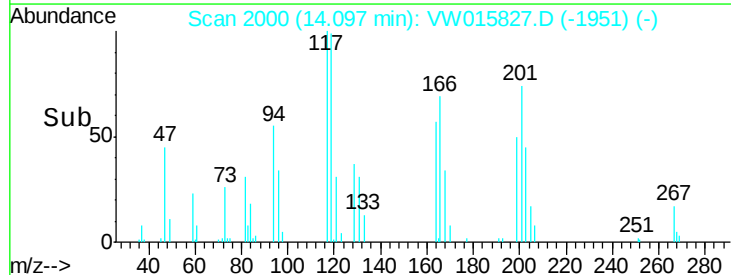
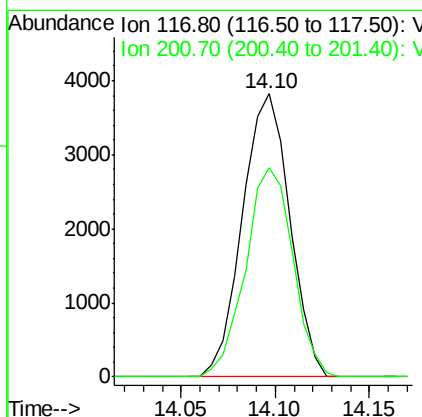
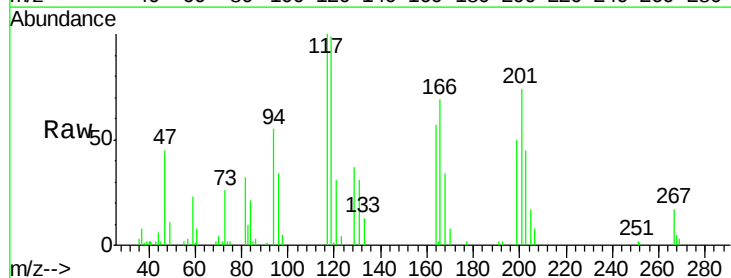
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

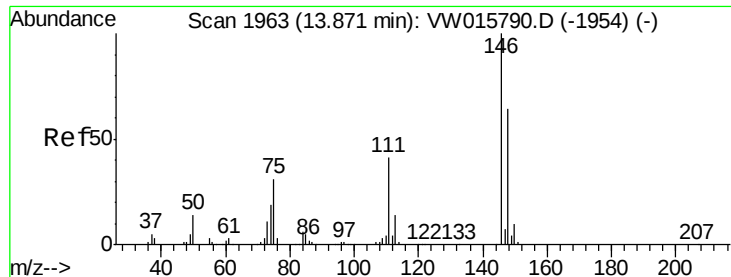
Tot Ion: 91 Resp: 36000
Ion Ratio Lower Upper
91 100
92 51.0 27.2 81.6
134 24.3 12.7 38.1



#90
Hexachloroethane
Concen: 3.948 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion: 117 Resp: 6646
Ion Ratio Lower Upper
117 100
201 73.8 37.1 111.3





#91

1,2-Dichlorobenzene

Concen: 4.296 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

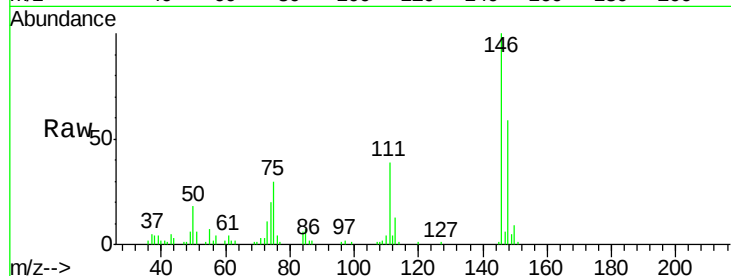
Tot Ion:146 Resp: 16651

Ion Ratio Lower Upper

146 100

111 42.1 20.6 61.9

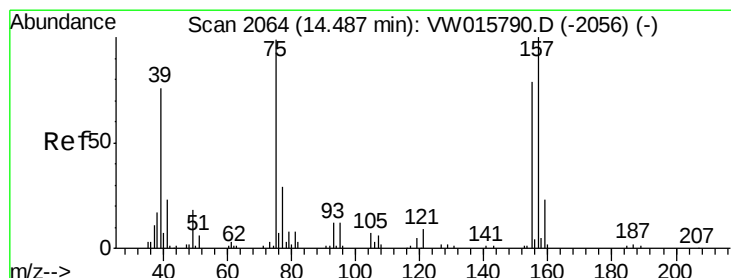
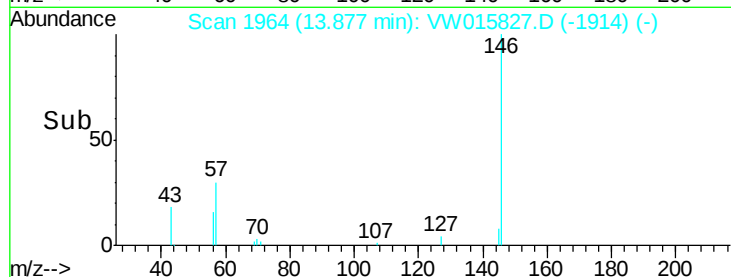
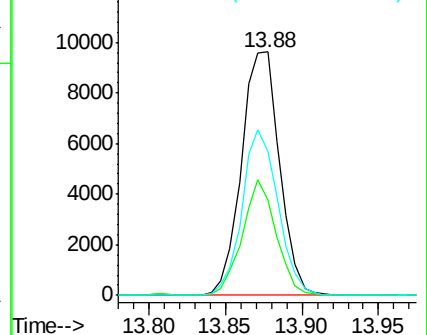
148 64.0 31.8 95.4



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: 4.133 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

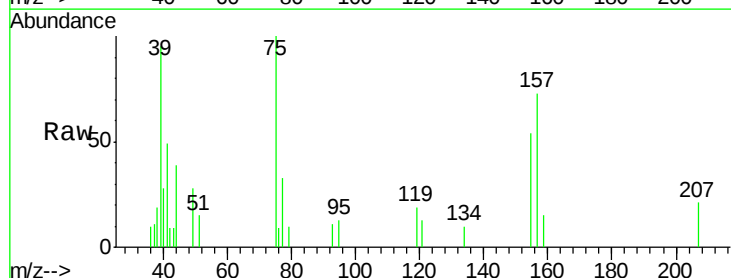
Tgt Ion: 75 Resp: 1092

Ion Ratio Lower Upper

75 100

155 67.1 39.1 117.5

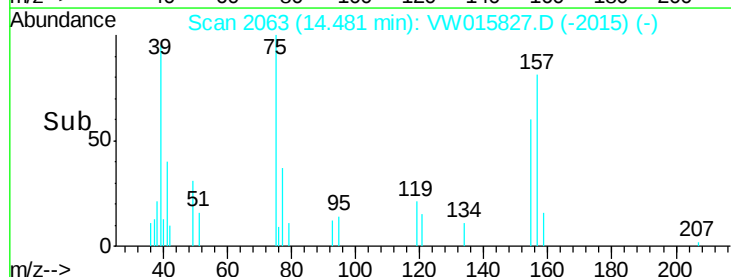
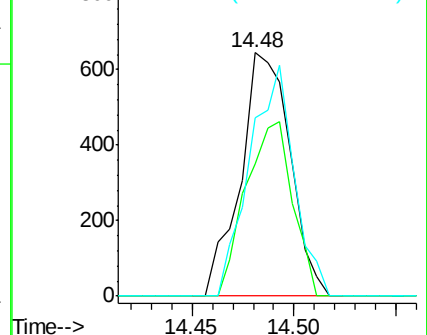
157 84.9 49.1 147.4

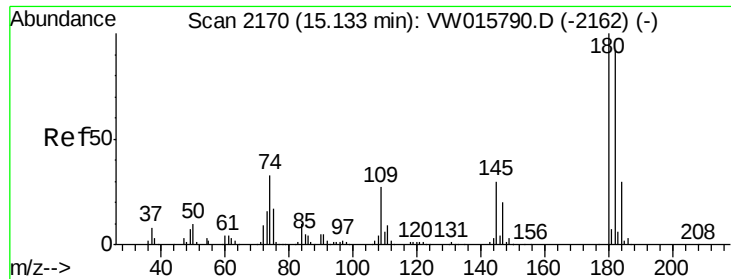


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

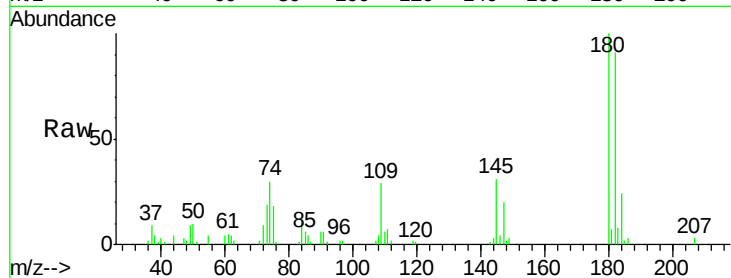




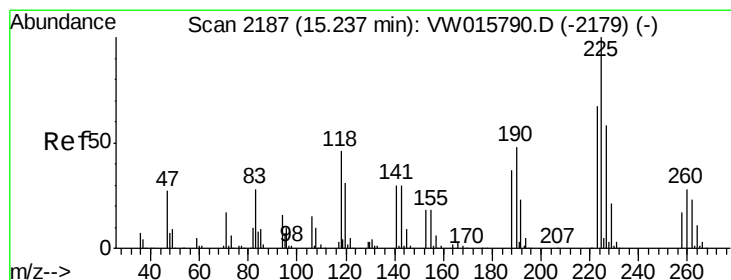
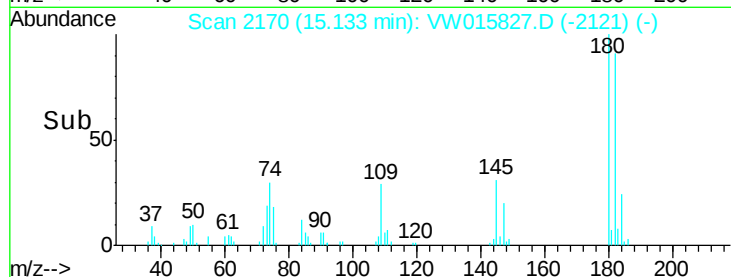
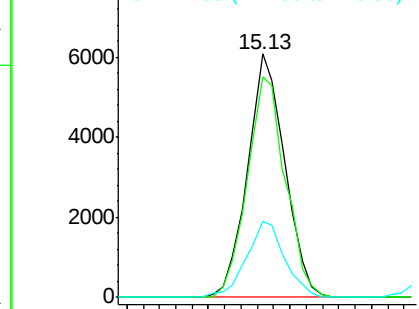
#93
1,2,4-Trichlorobenzene
Concen: 3.953 ug/l
RT: 15.13 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.8	140.3
145	32.2	15.4	46.4

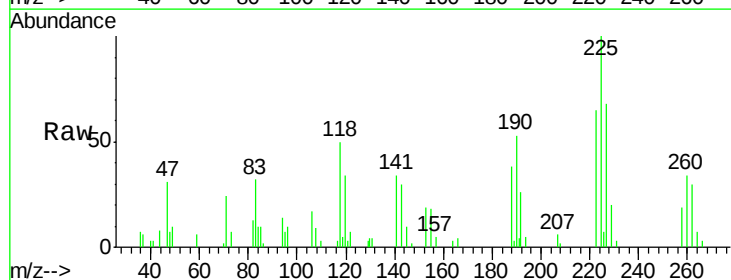


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

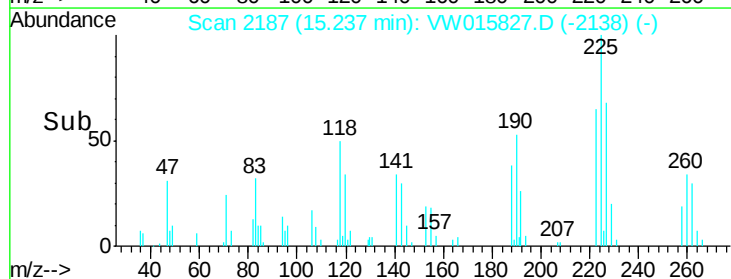
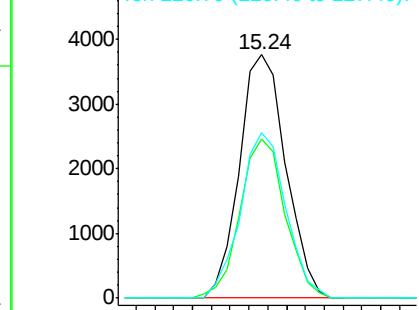


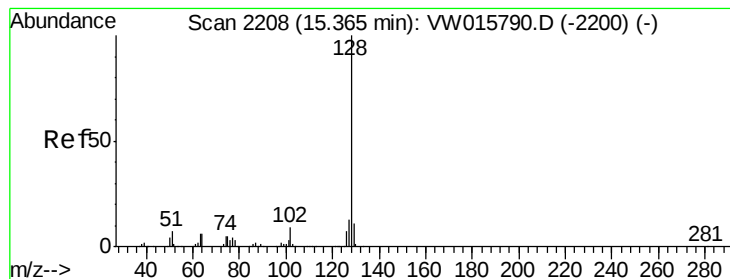
#94
Hexachlorobutadiene
Concen: 4.136 ug/l
RT: 15.24 min Scan# 2187
Delta R.T. -0.00 min
Lab File: VW015827.D
Acq: 09 Jul 2020 14:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	32.4	97.2
227	66.6	30.7	92.1



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





#95

Naphthalene

Concen: 3.578 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

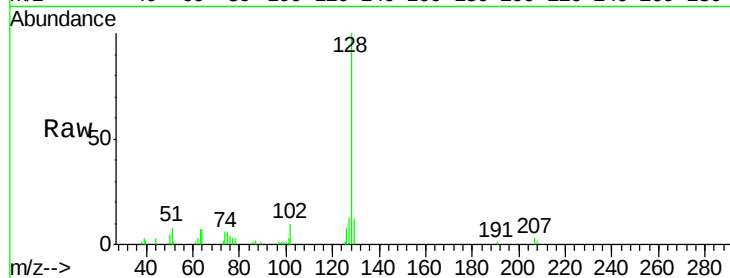
Tot Ion:128 Resp: 14615

Ion Ratio Lower Upper

128 100

127 14.3 10.6 16.0

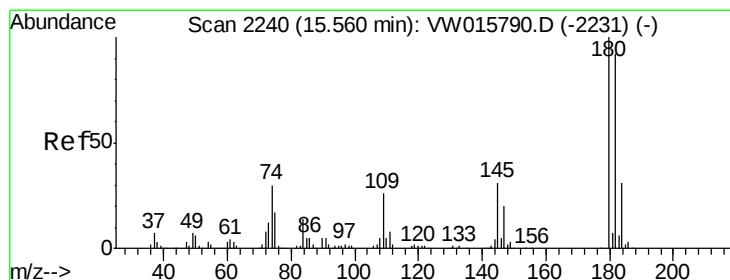
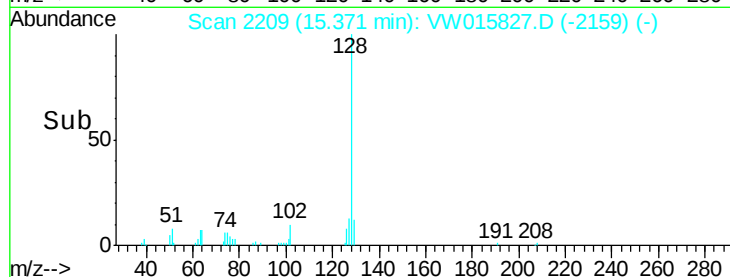
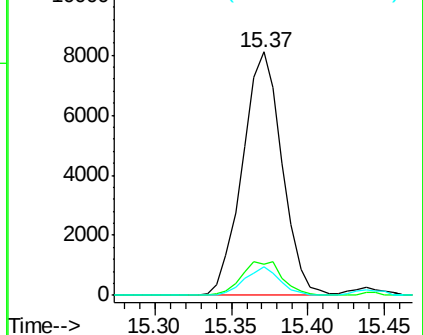
129 10.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.028 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW015827.D

Acq: 09 Jul 2020 14:40

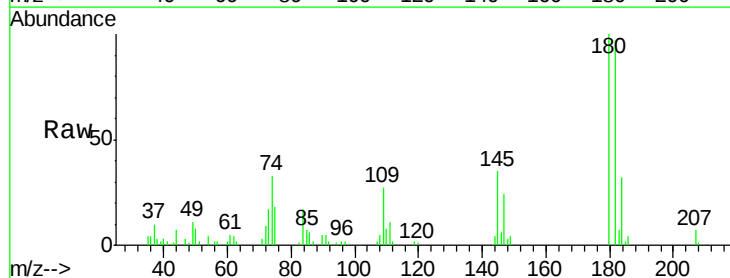
Tgt Ion:180 Resp: 8375

Ion Ratio Lower Upper

180 100

182 97.6 47.7 143.1

145 32.3 16.7 50.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

