

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
 Data File : VY003653.D
 Acq On : 03 Dec 2020 19:03
 Operator : SY/MD
 Sample : L4485-06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Manual Integrations
 APPROVED

MMDadoda
 12/4/2020 11:27:28 AM

Quant Time: Dec 04 00:43:39 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M

Quant Title : VOC Analysis

QLast Update : Fri Dec 04 00:25:15 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	222862	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	208946	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	107206	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	60294	20.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.84%
7) Chloroethane-d5	2.77	69	50582	22.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.56%
11) 1,1-Dichloroethene-d2	3.86	63	100745	17.38	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.52%
21) 2-Butanone-d5	6.90	46	71975	57.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.14%
24) Chloroform-d	7.48	84	137620	24.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.36%
26) 1,2-Dichloroethane-d4	8.15	65	77221	25.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.92%
32) Benzene-d6	8.12	84	290493	24.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.84%
36) 1,2-Dichloropropane-d6	9.12	67	90553	25.04	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.16%
41) Toluene-d8	10.18	98	260333	24.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.16%
43) trans-1,3-Dichloropropene-	10.44	79	42539	25.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.48%
47) 2-Hexanone-d5	10.79	63	55780	57.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.44%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	79068	21.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.48%
66) 1,2-Dichlorobenzene-d4	13.72	152	98343	25.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	3903	1.509 ug/L	93
3) Chloromethane	2.12	50	5060	1.804 ug/L	94
5) Vinyl chloride	2.25	62	4607	1.531 ug/L #	68
6) Bromomethane	2.66	94	2880	1.528 ug/L	93
8) Chloroethane	2.80	64	2670	1.421 ug/L	92
9) Trichlorofluoromethane	3.14	101	7450	1.631 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	3.91	101	5006	1.642 ug/L #	51
12) 1,1-Dichloroethene	3.88	96	5148	1.777 ug/L #	1
13) Acetone	3.96	43	3707	4.138 ug/L	99
14) Carbon disulfide	4.22	76	13995m	1.462 ug/L	
15) Methyl Acetate	4.50	43	3990m	1.849 ug/L	
16) Methylene chloride	4.73	84	14374	3.821 ug/L	95
17) trans-1,2-Dichloroethene	5.23	96	4570	1.436 ug/L	98
18) Methyl tert-butyl Ether	5.23	73	11485	1.477 ug/L #	71
19) 1,1-Dichloroethane	6.03	63	7612	1.421 ug/L	95
20) cis-1,2-Dichloroethene	6.99	96	5403	1.619 ug/L	96
22) 2-Butanone	7.00	43	6691	4.442 ug/L #	68

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 QLast Update : Fri Dec 04 00:25:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.35	128	2412	1.482	ug/L	75
25) Chloroform	7.52	83	9483	1.767	ug/L	99
27) 1,2-Dichloroethane	8.24	62	5446	1.542	ug/L	97
29) Cyclohexane	7.80	56	6741	1.359	ug/L	99
30) 1,1,1-Trichloroethane	7.71	97	7216	1.515	ug/L	98
31) Carbon tetrachloride	7.91	117	6361	1.479	ug/L	100
33) Benzene	8.17	78	18965	1.485	ug/L	100
34) Trichloroethene	8.94	95	5334	1.673	ug/L	96
35) Methylcyclohexane	9.19	83	7225	1.326	ug/L	89
37) 1,2-Dichloropropane	9.22	63	4834	1.491	ug/L #	96
38) Bromodichloromethane	9.50	83	6150	1.507	ug/L	97
39) cis-1,3-Dichloropropene	9.93	75	7545	1.507	ug/L	90
40) 4-Methyl-2-pentanone	10.07	43	10067	3.537	ug/L #	98
42) Toluene	10.25	91	20699	1.543	ug/L	99
44) trans-1,3-Dichloropropene	10.47	75	7243	1.567	ug/L	94
45) 1,1,2-Trichloroethane	10.65	97	4127	1.516	ug/L	93
46) Tetrachloroethene	10.72	164	4588	1.682	ug/L	93
48) 2-Hexanone	10.83	43	6324	3.044	ug/L #	97
49) Dibromochloromethane	10.98	129	4737	1.506	ug/L	94
50) 1,2-Dibromoethane	11.09	107	3821	1.451	ug/L #	96
51) Chlorobenzene	11.52	112	13865	1.604	ug/L #	85
52) Ethylbenzene	11.59	91	21050	1.466	ug/L	97
53) m,p-Xylene	11.70	106	8269	1.473	ug/L	92
54) o-Xylene	12.03	106	7257	1.369	ug/L	94
55) Styrene	12.04	104	12519	1.380	ug/L	94
57) 1,1,2,2-Tetrachloroethane	12.58	83	5008	1.388	ug/L #	92
59) Bromoform	12.21	173	3035	1.442	ug/L	96
60) Isopropylbenzene	12.33	105	19490	1.422	ug/L	99
61) 1,2,3-Trichloropropane	12.64	75	3994	1.558	ug/L	98
62) 1,3,5-Trimethylbenzene	12.81	105	14966	1.377	ug/L	94
63) 1,2,4-Trimethylbenzene	13.12	105	14980	1.395	ug/L	98
64) 1,3-Dichlorobenzene	13.36	146	10859	1.638	ug/L	87
65) 1,4-Dichlorobenzene	13.45	146	11093	1.646	ug/L	94
67) 1,2-Dichlorobenzene	13.74	146	10068	1.617	ug/L #	94
68) 1,2-Dibromo-3-chloropropan	14.35	75	974m	1.637	ug/L	
69) 1,3,5-Trichlorobenzene	14.50	180	8179	1.756	ug/L	95
70) 1,2,4-trichlorobenzene	15.01	180	6344	1.599	ug/L	100
71) Naphthalene	15.23	128	12839	1.482	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	5696	1.563	ug/L	96

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

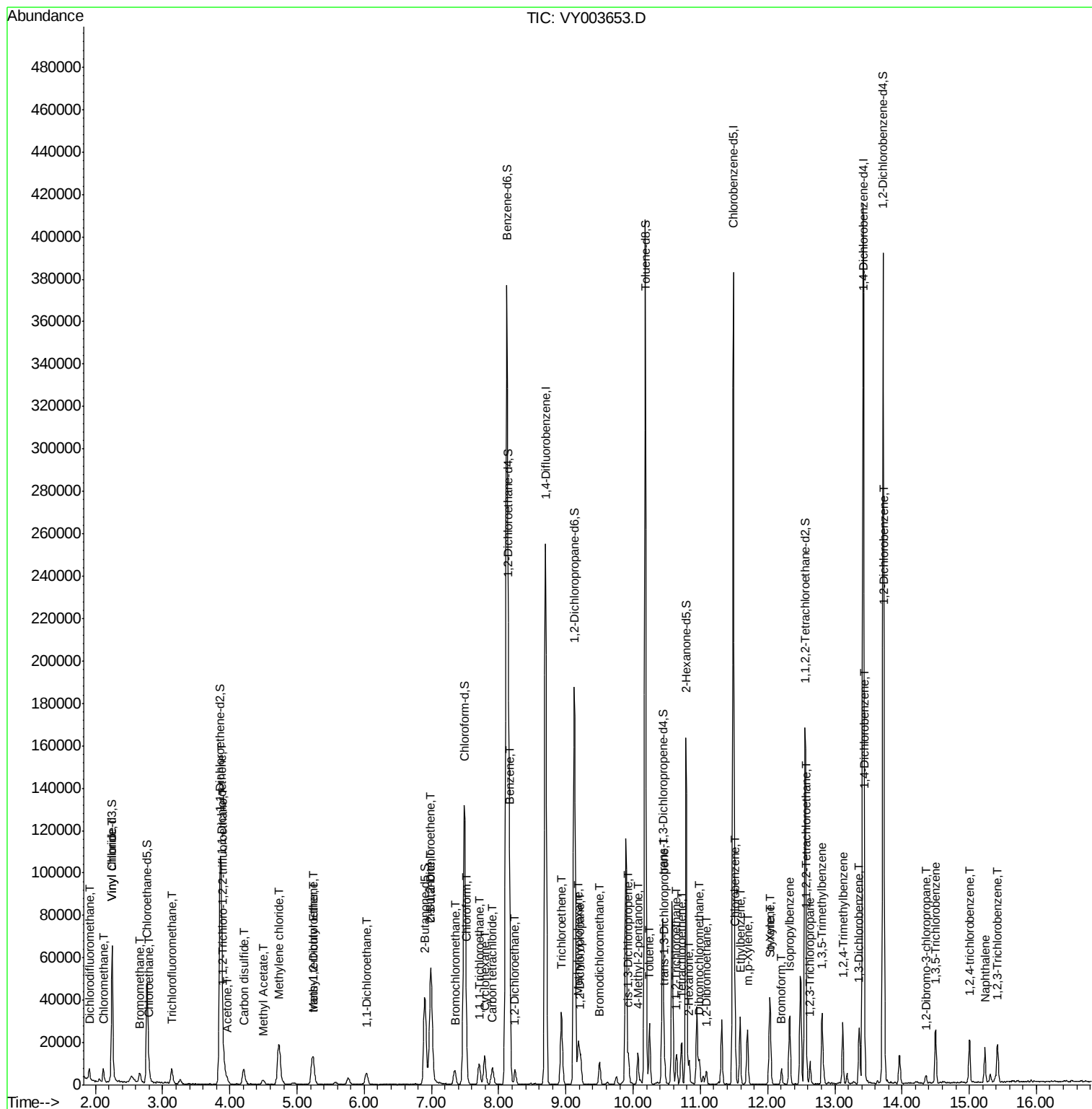
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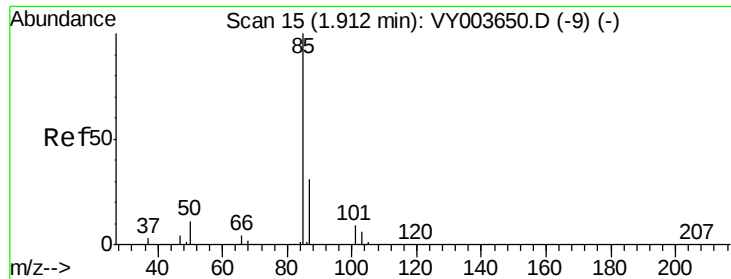
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 1.509 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 85 Resp: 3903

Ion Ratio Lower Upper

85 100

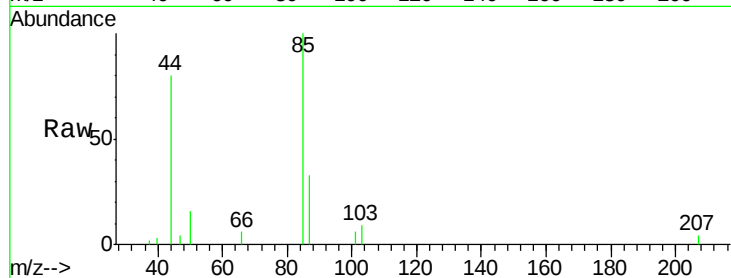
87 35.7 25.4 38.2

Manual Integrations

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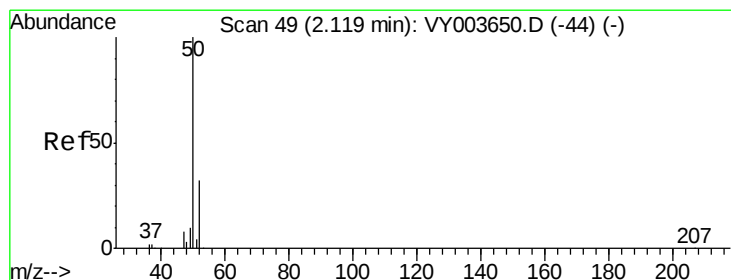
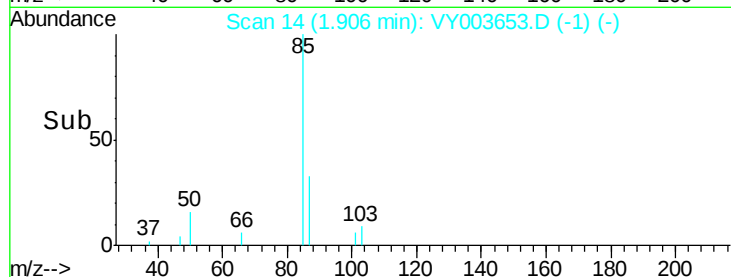
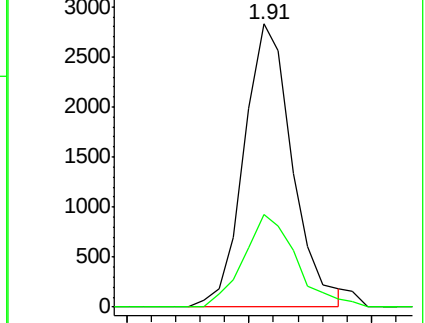
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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 1.804 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003653.D

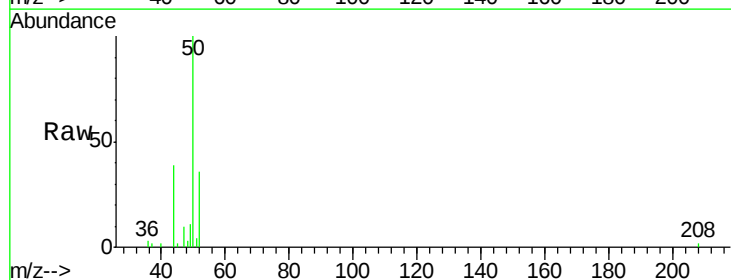
Acq: 03 Dec 2020 19:03

Tgt Ion: 50 Resp: 5060

Ion Ratio Lower Upper

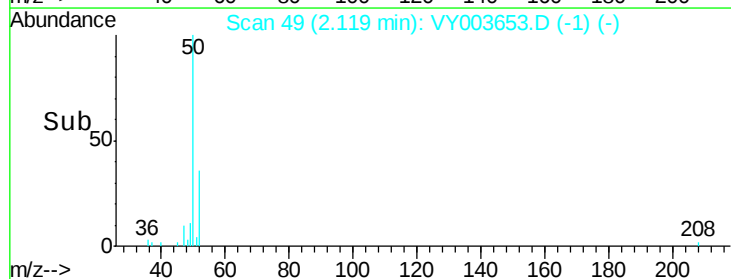
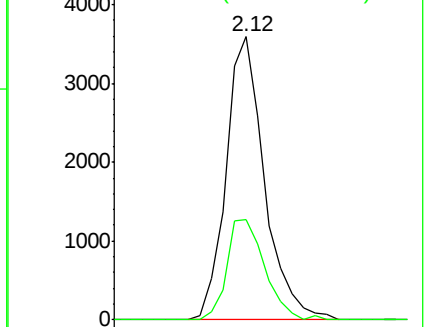
50 100

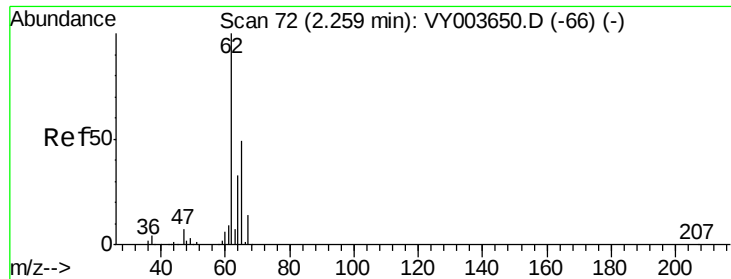
52 35.6 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 1.531 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 62 Resp: 4607

Ion Ratio Lower Upper

62 100

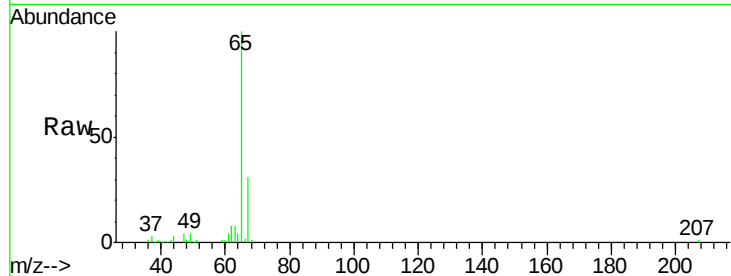
64 49.1 21.9 40.7#

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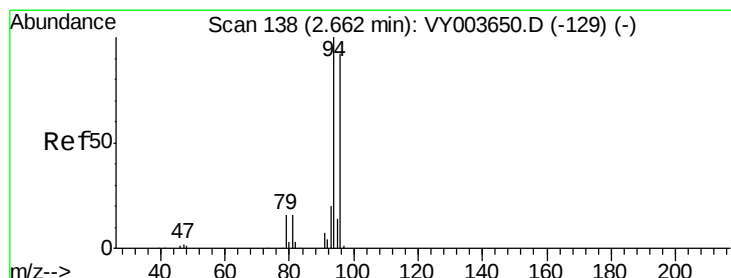
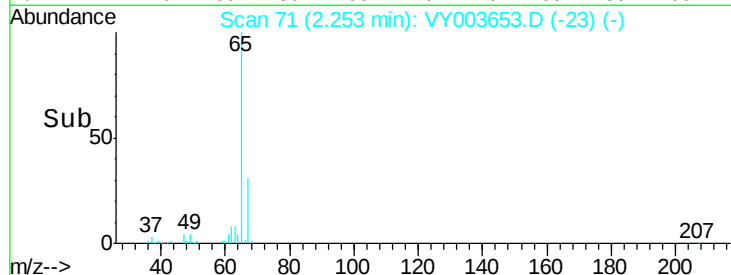
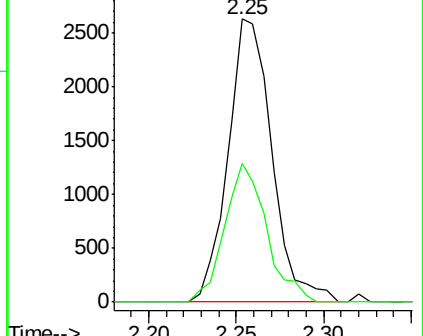
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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.528 ug/L

RT: 2.66 min Scan# 138

Delta R.T. 0.00 min

Lab File: VY003653.D

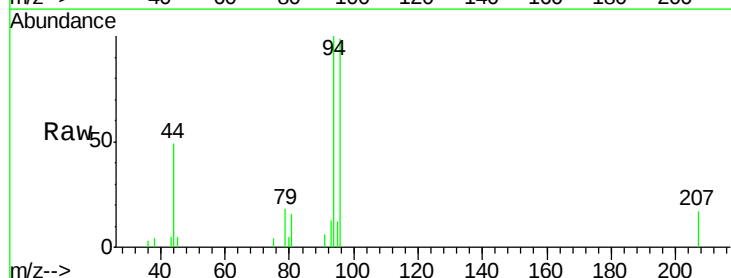
Acq: 03 Dec 2020 19:03

Tgt Ion: 94 Resp: 2880

Ion Ratio Lower Upper

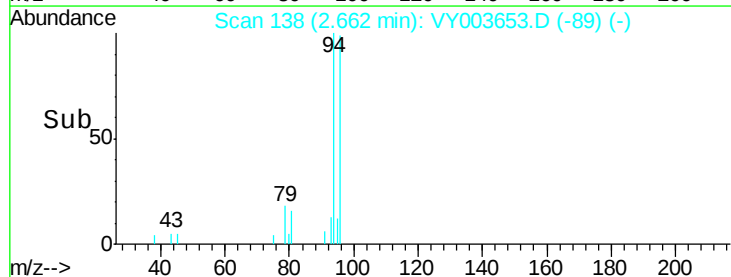
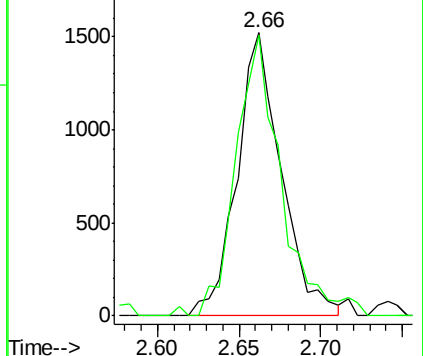
94 100

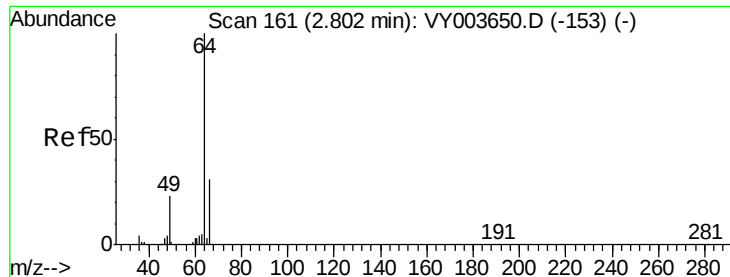
96 99.3 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 1.421 ug/L

RT: 2.80 min Scan# 161

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 64 Resp: 2670

Ion Ratio Lower Upper

64 100

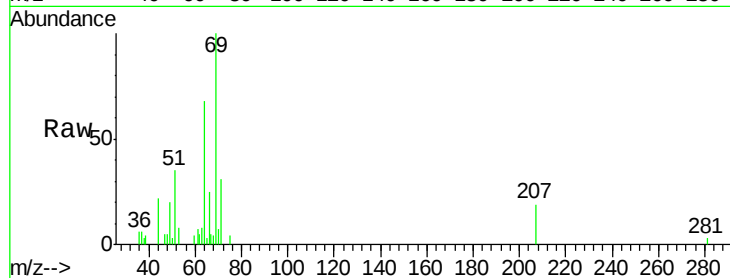
66 36.1 22.2 41.2

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VY0

Ion 66.00 (65.70 to 66.70): VY0

1500

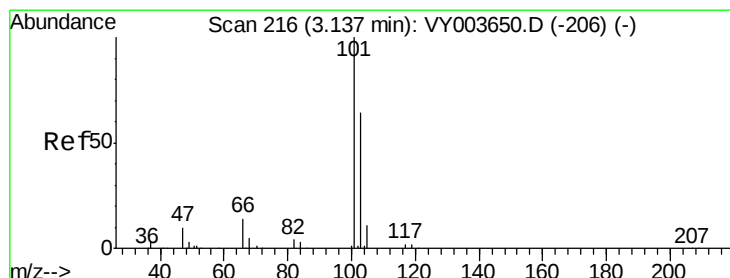
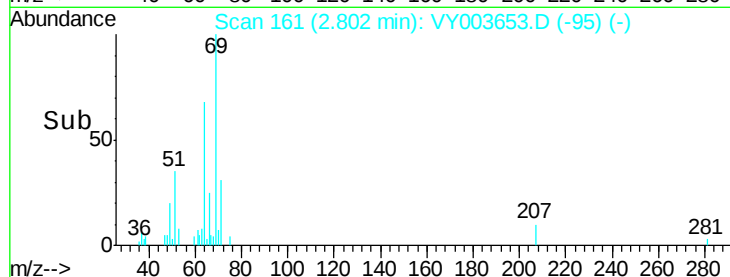
1000

500

0

2.75 2.80 2.85

Time-->



#9

Trichlorofluoromethane

Concen: 1.631 ug/L

RT: 3.14 min Scan# 216

Delta R.T. 0.00 min

Lab File: VY003653.D

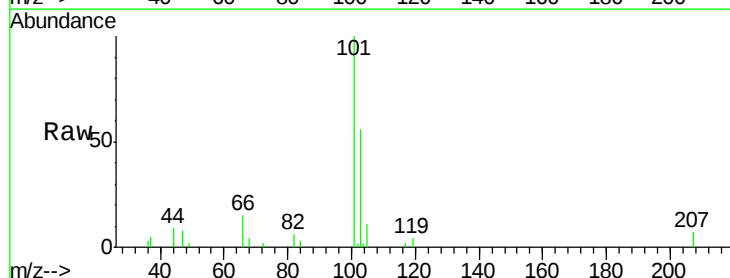
Acq: 03 Dec 2020 19:03

Tgt Ion: 101 Resp: 7450

Ion Ratio Lower Upper

101 100

103 60.9 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3000

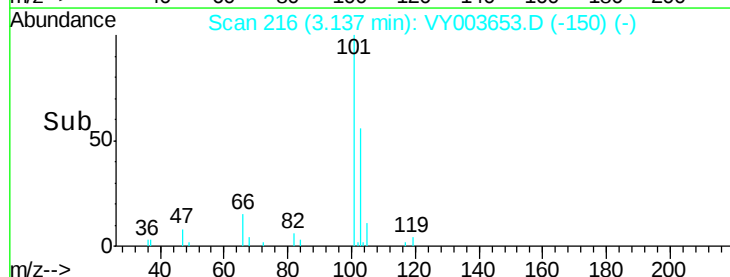
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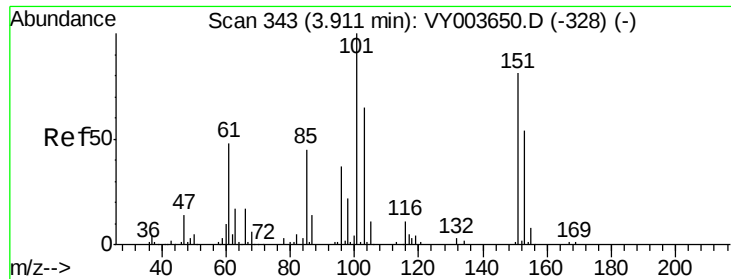
1000

0

3.05 3.10 3.15 3.20 3.25

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.642 ug/L

RT: 3.91 min Scan# 342

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

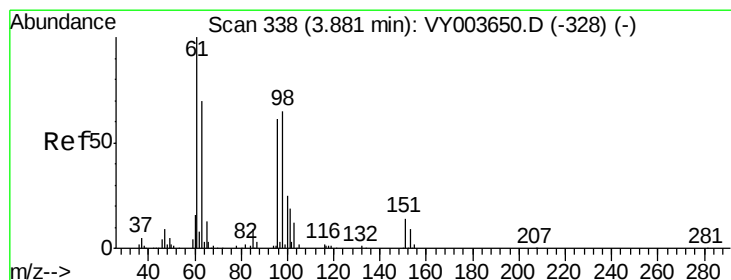
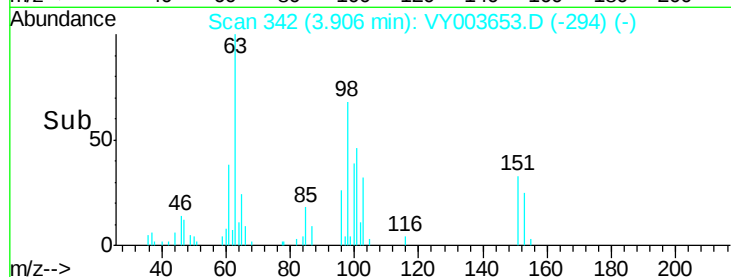
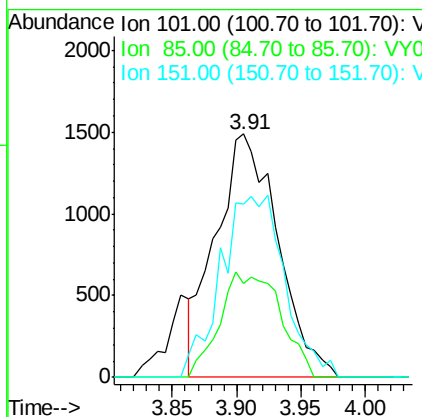
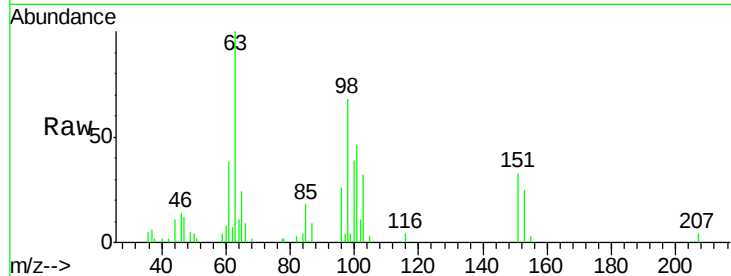
ClientSampleId :

MDL-SOIL-06

Tot Ion:	101	Resp:	5006
Ion Ratio	Lower	Upper	
101	100		
85	18.7	35.6	53.4#
151	32.9	64.2	96.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 1.777 ug/L

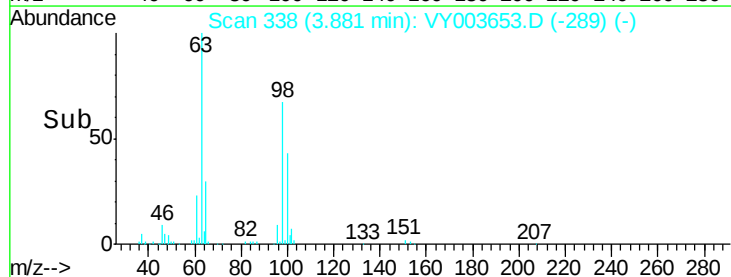
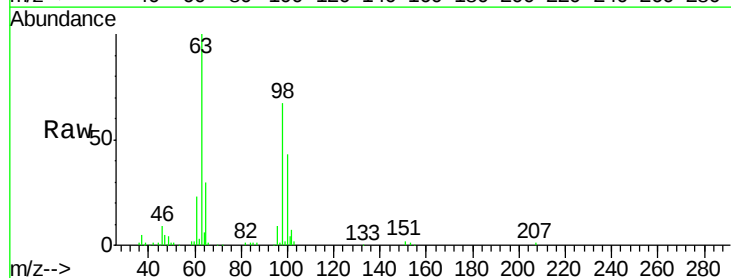
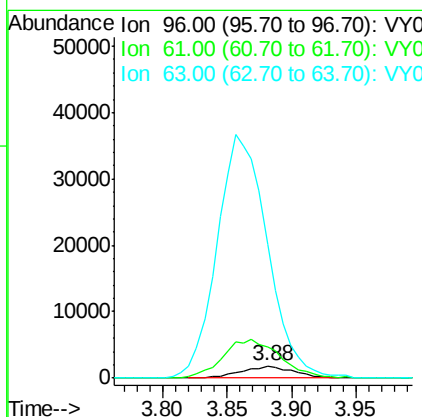
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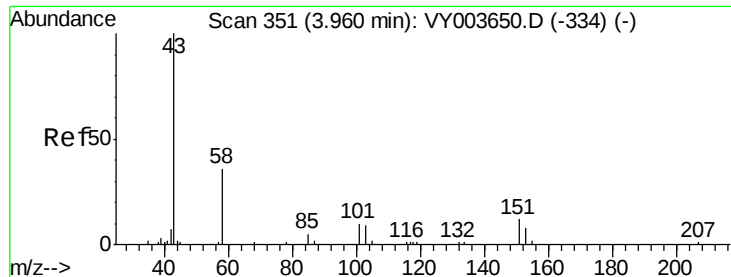
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	96	Resp:	5148
Ion Ratio	Lower	Upper	
96	100		
61	262.2	106.1	197.1#
63	1123.9	62.9	116.9#





#13

Acetone

Concen: 4.138 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 43 Resp: 3707

Ion Ratio Lower Upper

43 100

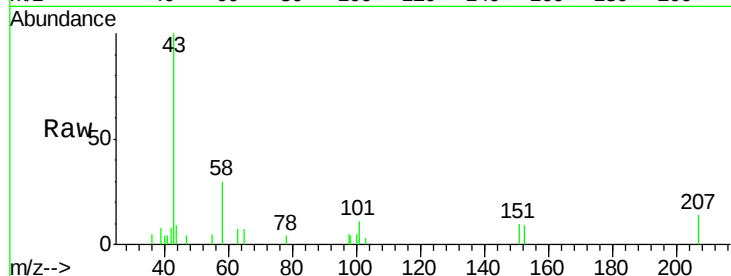
58 30.5 0.0 61.6

Manual Integrations

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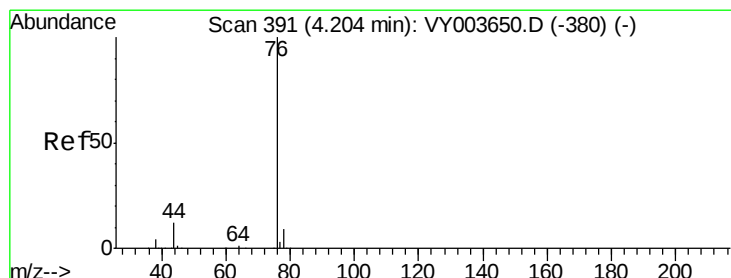
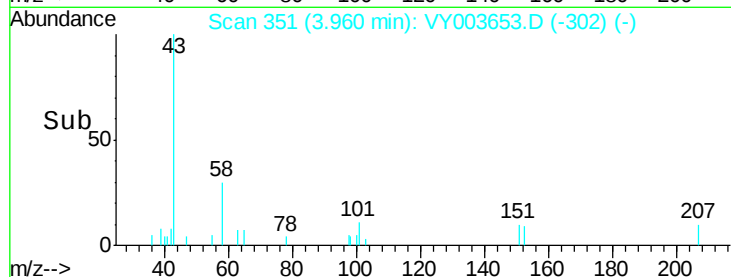
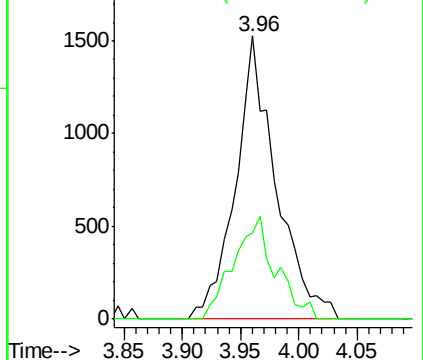
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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 1.462 ug/L m

RT: 4.22 min Scan# 393

Delta R.T. 0.01 min

Lab File: VY003653.D

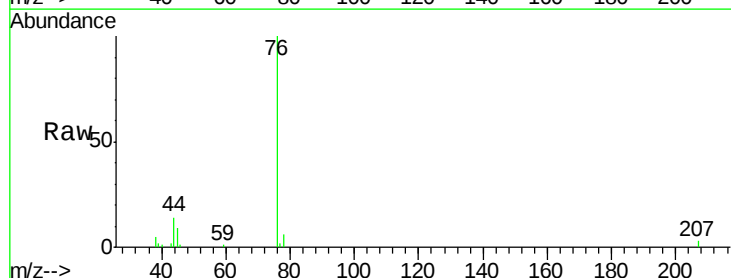
Acq: 03 Dec 2020 19:03

Tgt Ion: 76 Resp: 13995

Ion Ratio Lower Upper

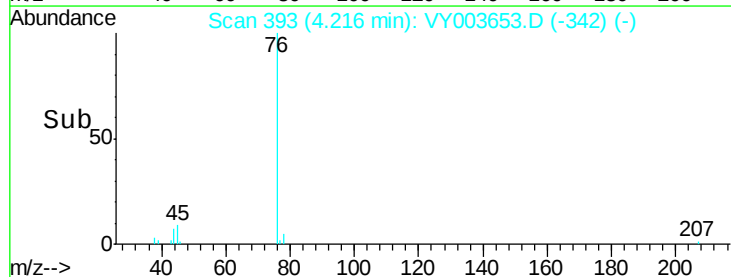
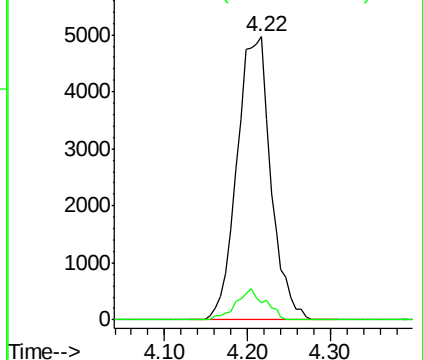
76 100

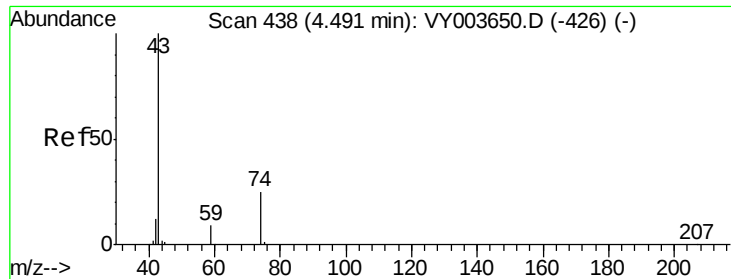
78 6.1 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





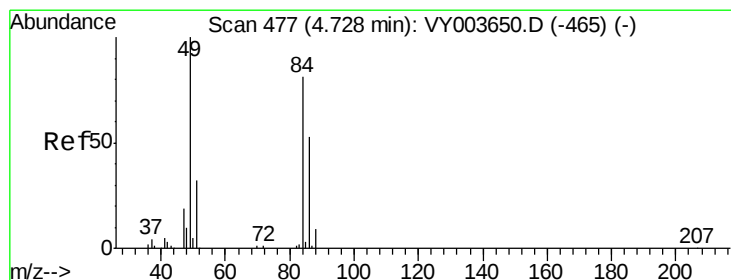
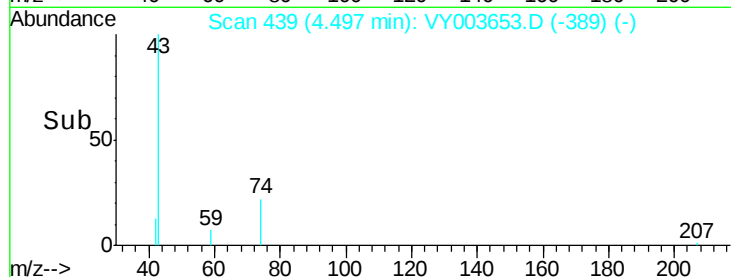
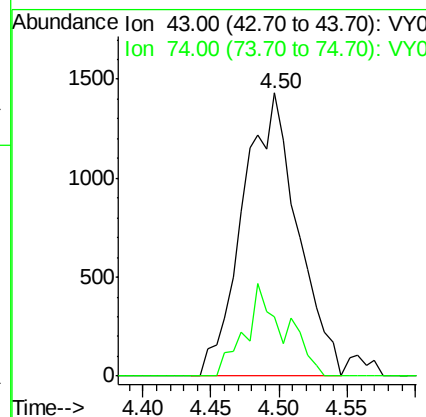
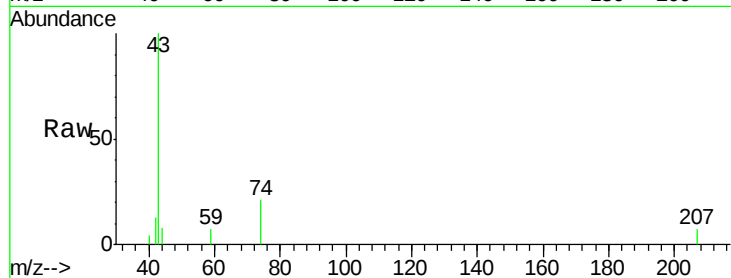
#15
Methyl Acetate
Concen: 1.849 ug/L m
RT: 4.50 min Scan# 439
Delta R.T. 0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion: 43 Resp: 3990
Ion Ratio Lower Upper
43 100
74 17.4 18.2 27.2#

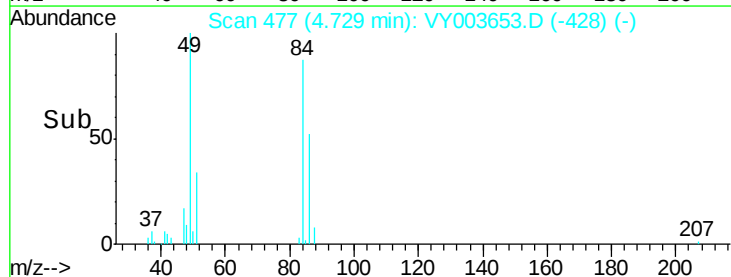
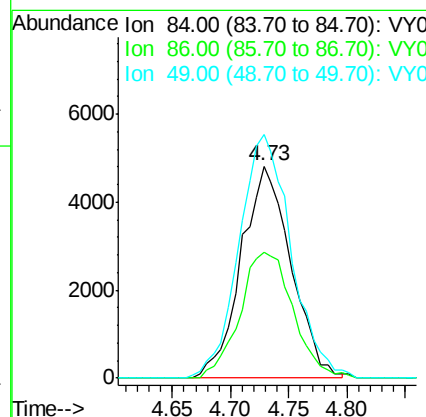
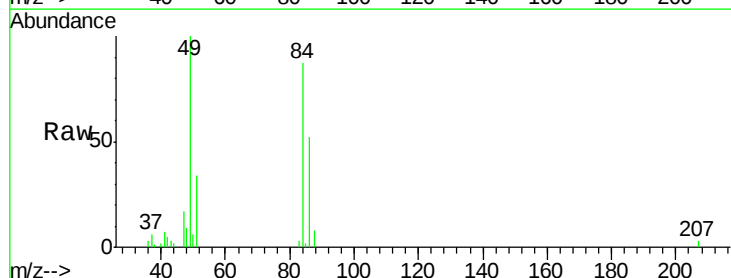
Manual Integrations
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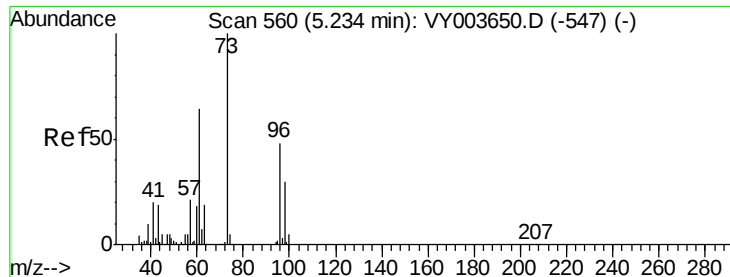
MMDadoda
12/4/2020 11:27:28 AM



#16
Methylene chloride
Concen: 3.821 ug/L
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion: 84 Resp: 14374
Ion Ratio Lower Upper
84 100
86 59.2 43.3 80.3
49 114.8 85.3 158.5





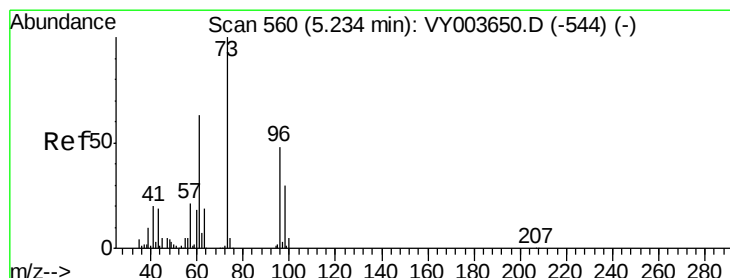
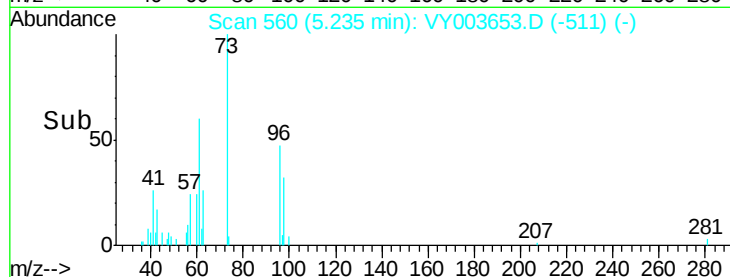
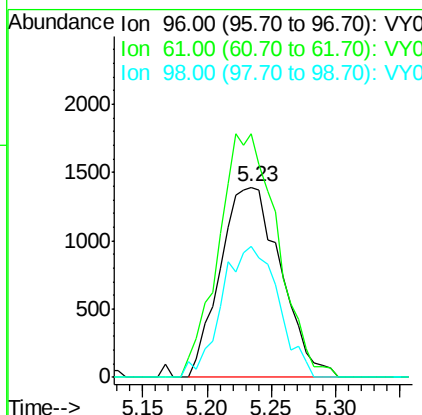
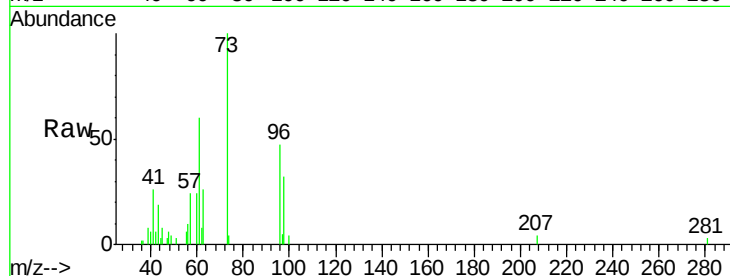
#17
trans-1,2-Dichloroethene
Concen: 1.436 ug/L
RT: 5.23 min Scan# 560
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		4570		
61	128.3	89.5	166.1		
98	68.9	45.5	84.5		

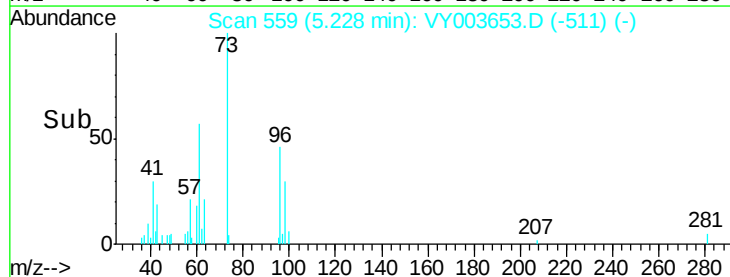
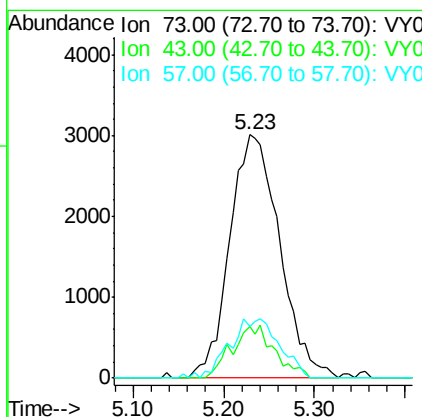
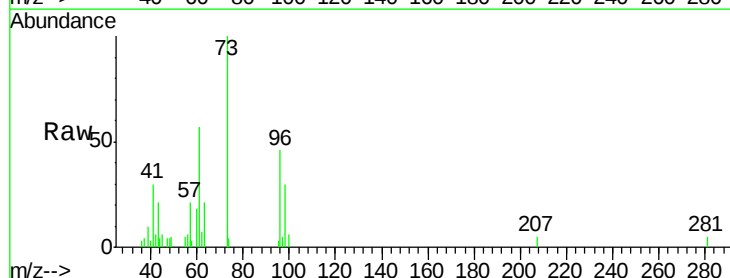
Manual Integrations
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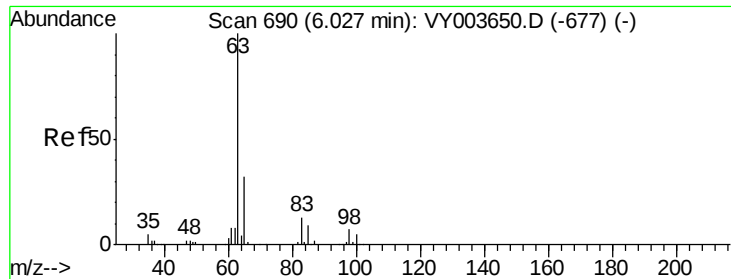
MMDadoda
12/4/2020 11:27:28 AM



#18
Methyl tert-butyl Ether
Concen: 1.477 ug/L
RT: 5.23 min Scan# 559
Delta R.T. -0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
73	100		11485		
43	3.2	15.2	22.8#		
57	10.8	18.1	27.1#		





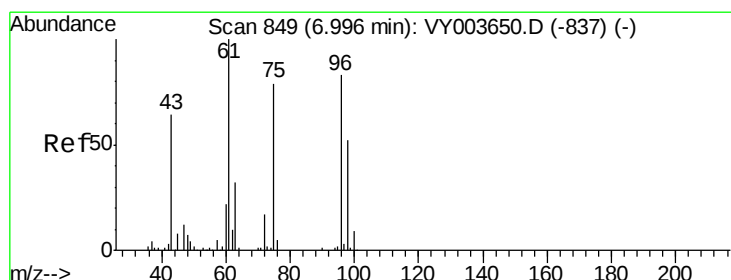
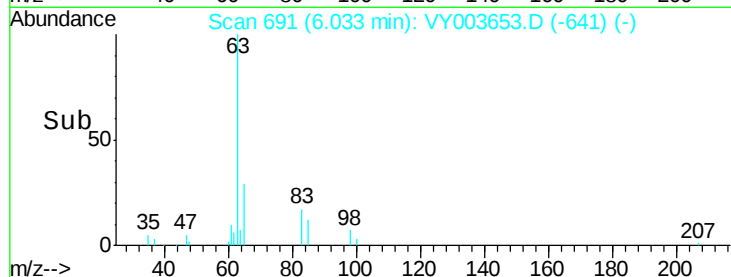
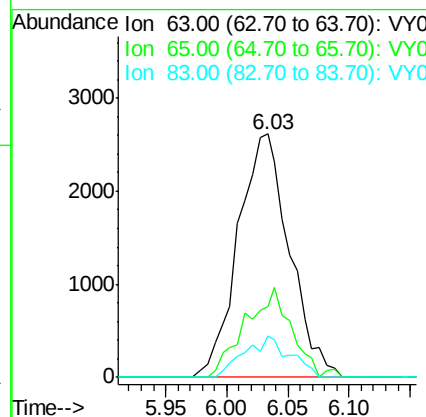
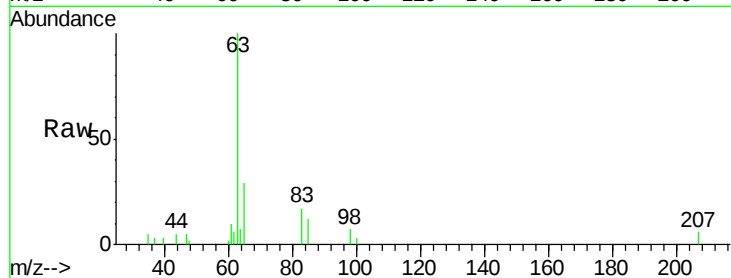
#19
 1,1-Dichloroethane
 Concen: 1.421 ug/L
 RT: 6.03 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.1	21.9	40.7
83	17.2	9.5	17.7

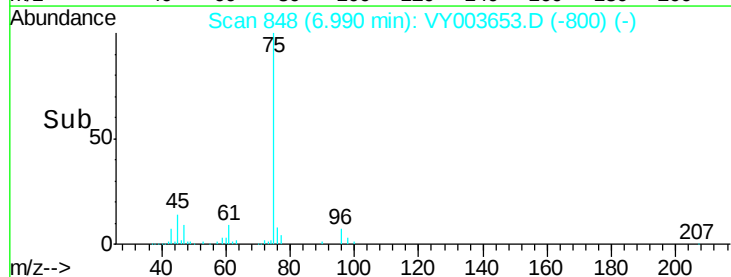
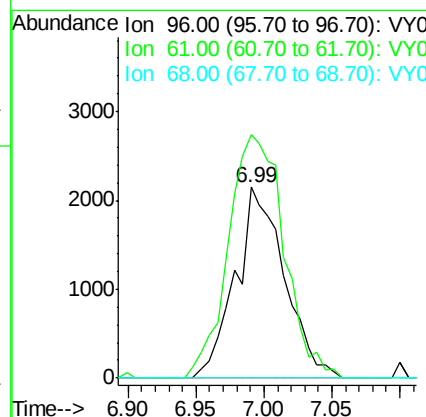
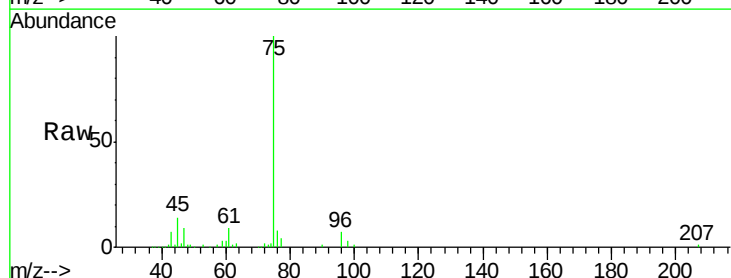
Manual Integrations
 APPROVED

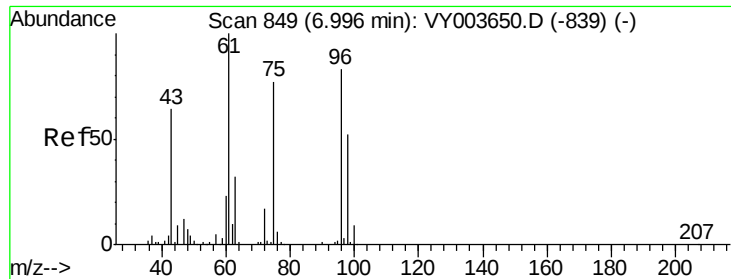
MMDadoda
 12/4/2020 11:27:28 AM



#20
 cis-1,2-Dichloroethene
 Concen: 1.619 ug/L
 RT: 6.99 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.6	85.8	159.4
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.442 ug/L

RT: 7.00 min Scan# 849

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 43 Resp: 6691

Ion Ratio Lower Upper

43 100

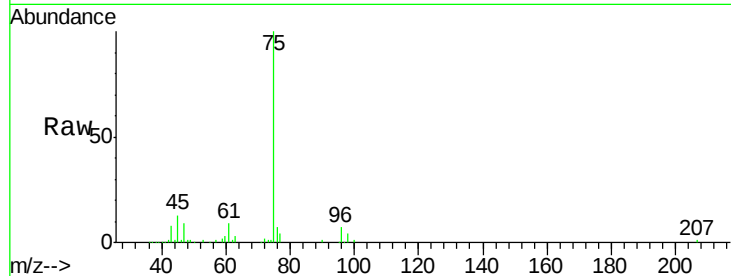
72 10.3 13.5 40.5#

Manual Integrations

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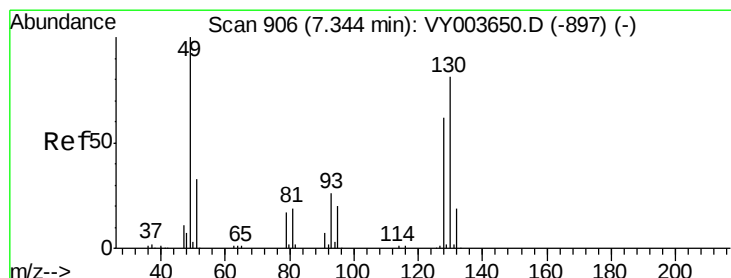
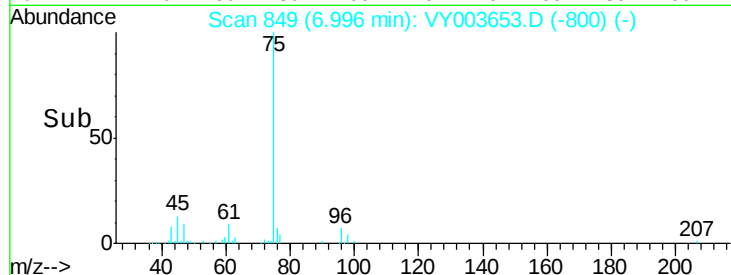
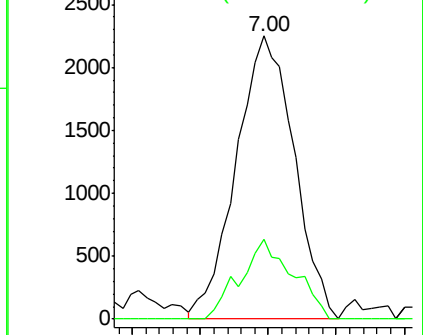
MMDadoda

12/4/2020 11:27:28 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#23

Bromochloromethane

Concen: 1.482 ug/L

RT: 7.35 min Scan# 907

Delta R.T. 0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion: 128 Resp: 2412

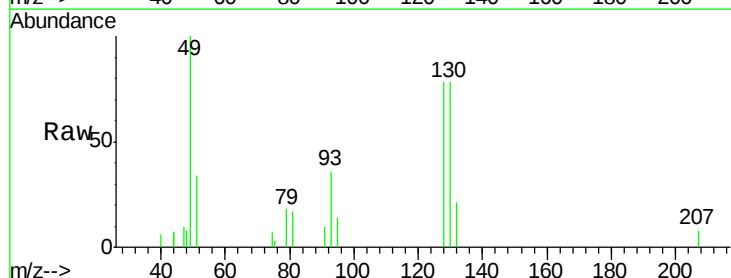
Ion Ratio Lower Upper

128 100

49 128.9 118.1 219.3

130 100.9 90.5 168.1

51 44.4 41.3 61.9

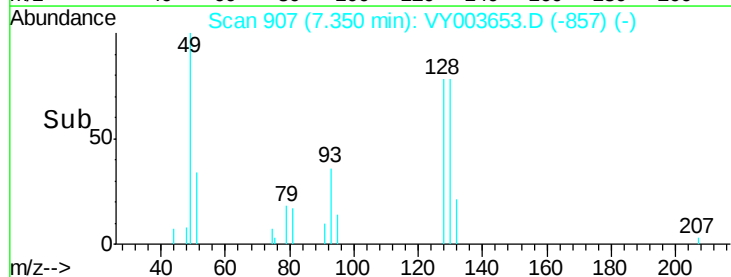
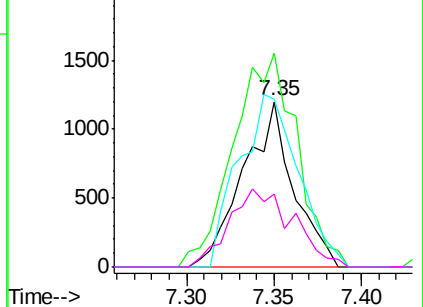


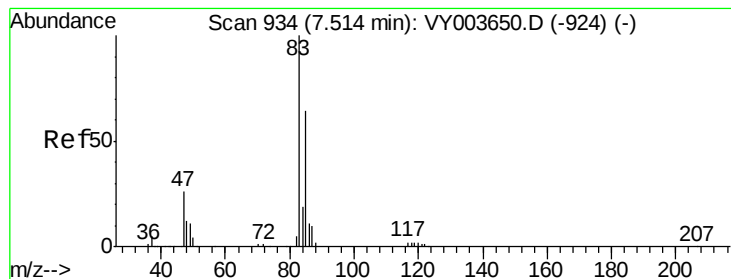
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VY0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VY0





#25

Chloroform

Concen: 1.767 ug/L

RT: 7.52 min Scan# 935

Delta R.T. 0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 83 Resp: 9483

Ion Ratio Lower Upper

83 100

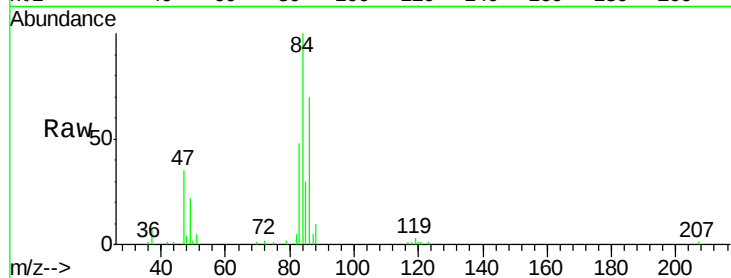
85 62.5 44.4 82.4

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Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

7.52

4000

3000

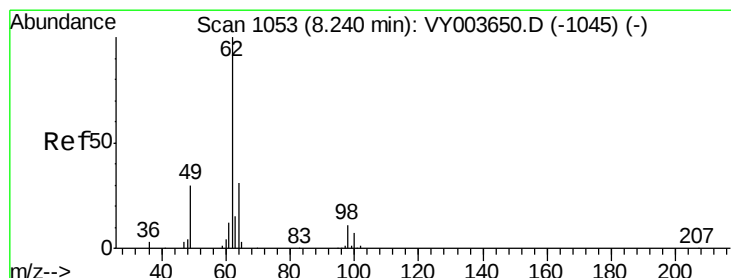
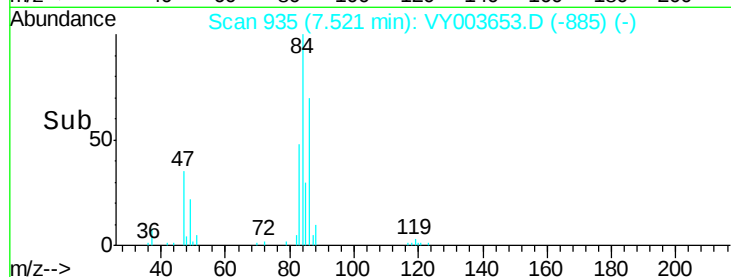
2000

1000

0

7.45 7.50 7.55 7.60

Time-->



#27

1,2-Dichloroethane

Concen: 1.542 ug/L

RT: 8.24 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VY003653.D

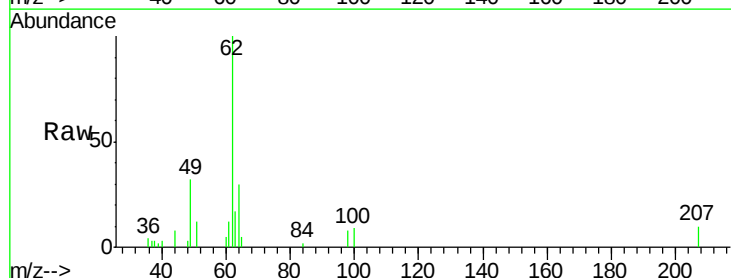
Acq: 03 Dec 2020 19:03

Tgt Ion: 62 Resp: 5446

Ion Ratio Lower Upper

62 100

98 8.5 7.5 11.3



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

8.24

3000

2500

2000

1500

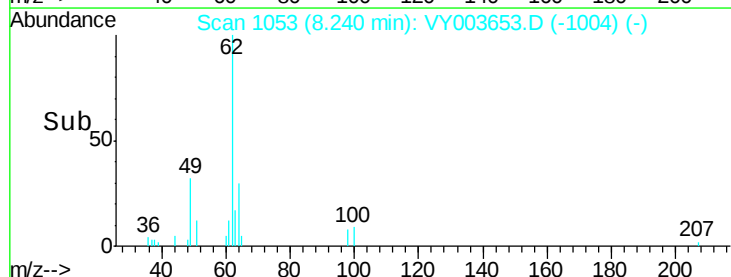
1000

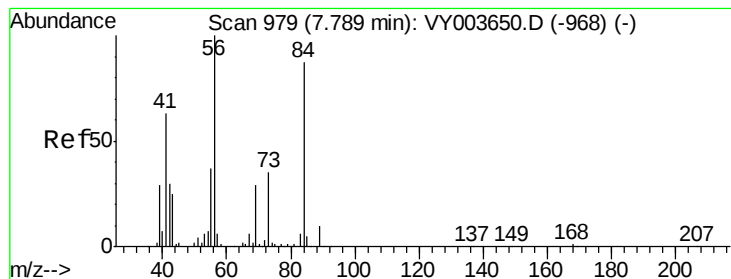
500

0

8.20 8.25 8.30

Time-->





#29

Cvclohexane

Concen: 1.359 ug/L

RT: 7.80 min Scan# 980

Delta R.T. 0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

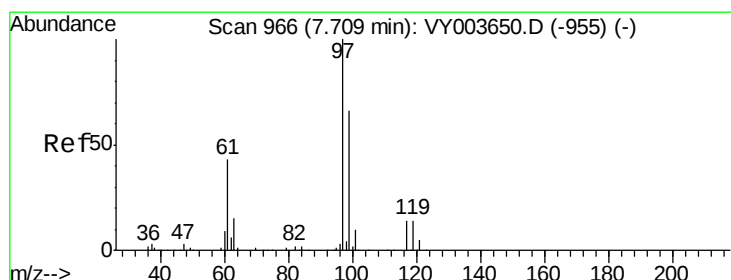
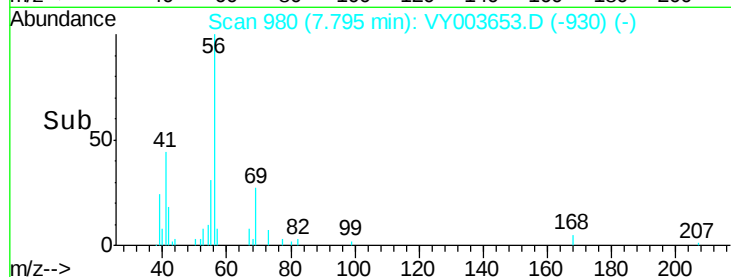
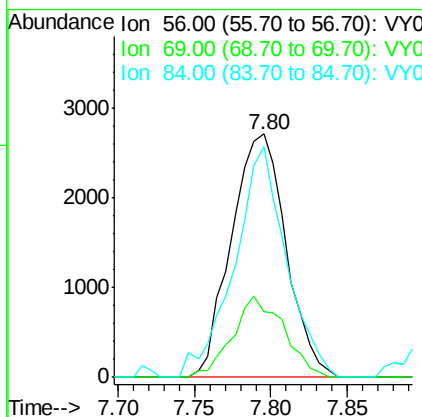
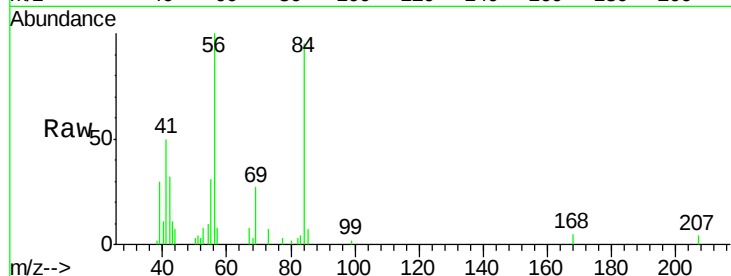
ClientSampleId :

MDL-SOIL-06

Tot Ion:	56	Resp:	6741
Ion Ratio	Lower	Upper	
56	100		
69	31.4	23.9	35.9
84	89.9	71.9	107.9

Manual Integrations
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#30

1,1,1-Trichloroethane

Concen: 1.515 ug/L

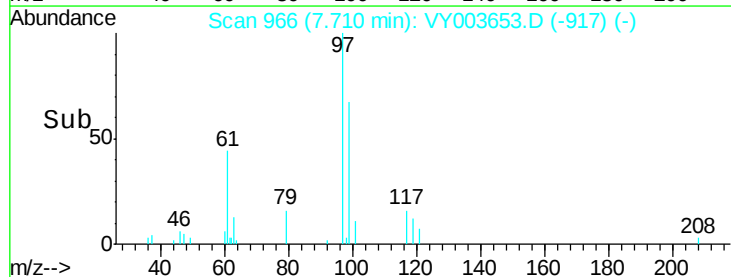
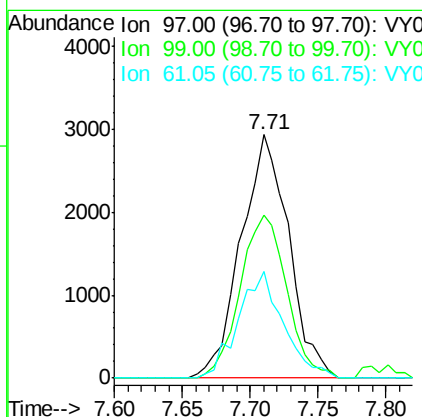
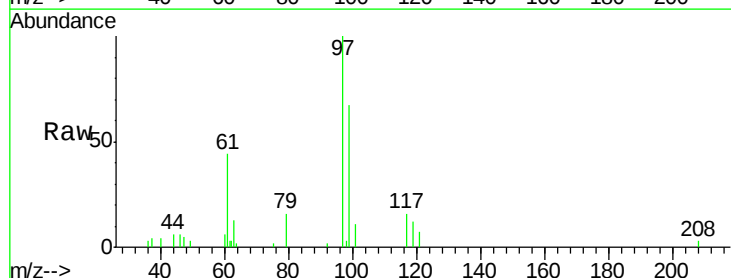
RT: 7.71 min Scan# 966

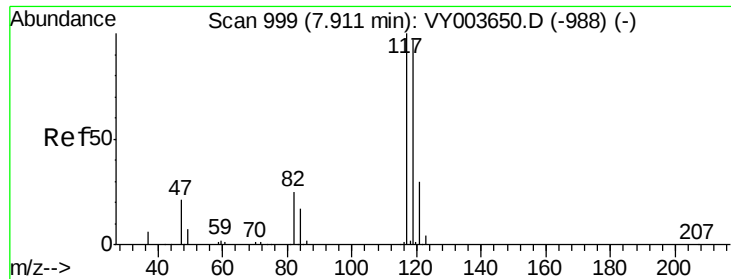
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	97	Resp:	7216
Ion Ratio	Lower	Upper	
97	100		
99	65.3	50.6	76.0
61	41.4	34.3	51.5





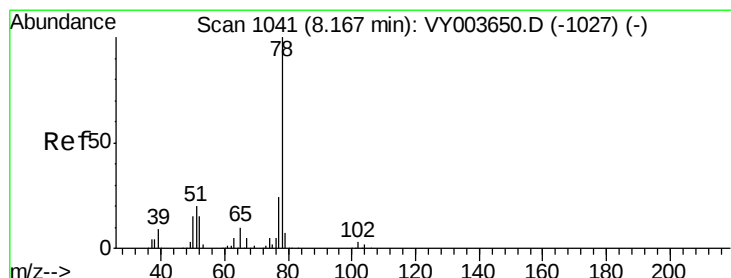
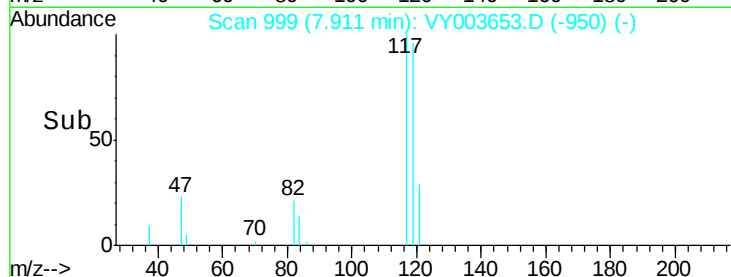
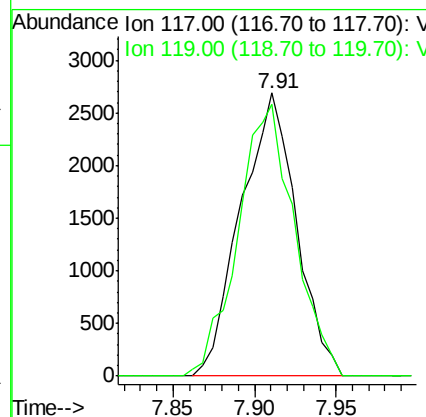
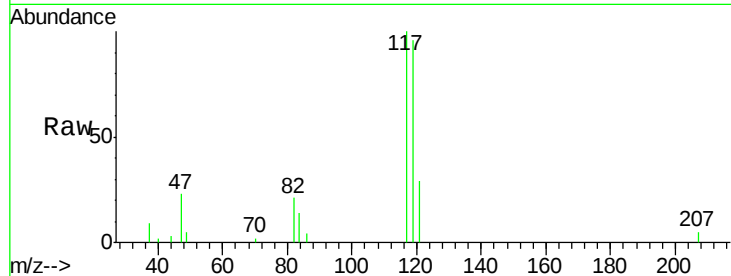
#31
Carbon tetrachloride
Concen: 1.479 ug/L
RT: 7.91 min Scan# 999
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:117 Resp: 6361
Ion Ratio Lower Upper
117 100
119 97.3 77.7 116.5

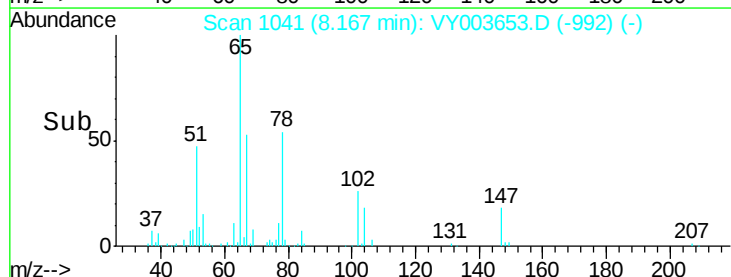
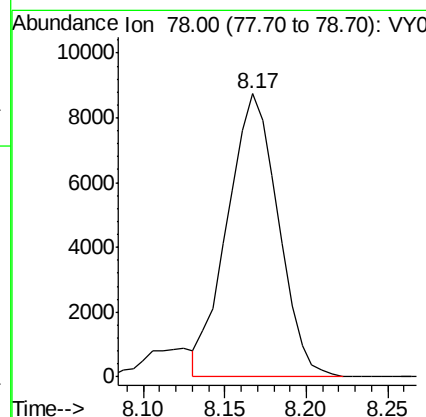
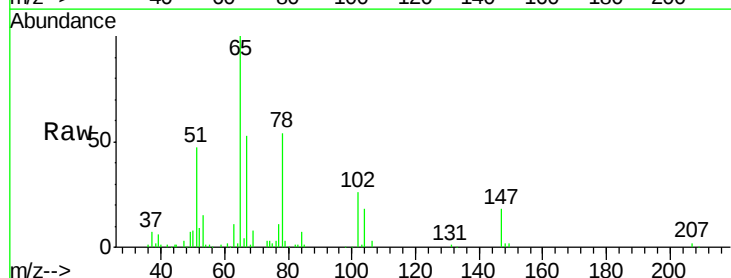
Manual Integrations
APPROVED

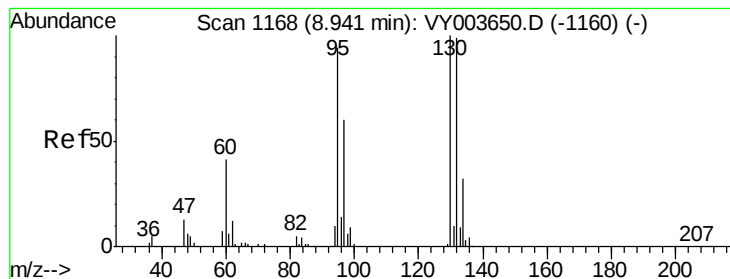
MMDadoda
12/4/2020 11:27:28 AM



#33
Benzene
Concen: 1.485 ug/L
RT: 8.17 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion: 78 Resp: 18965





#34

Trichloroethene

Concen: 1.673 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

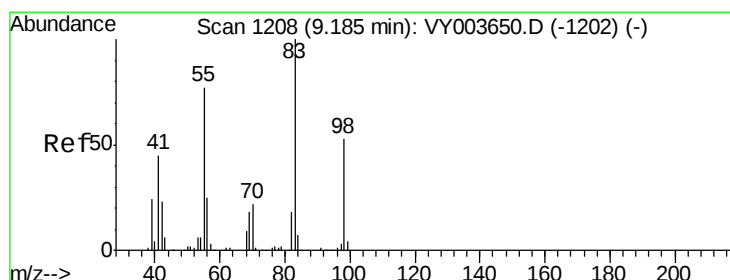
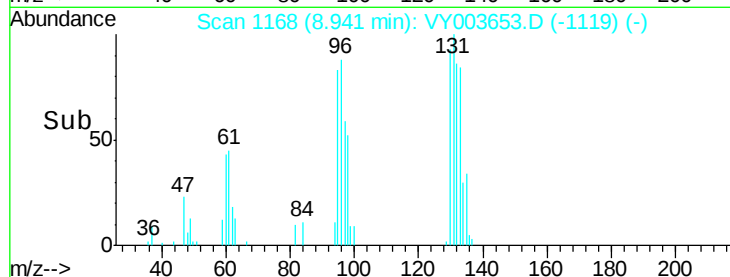
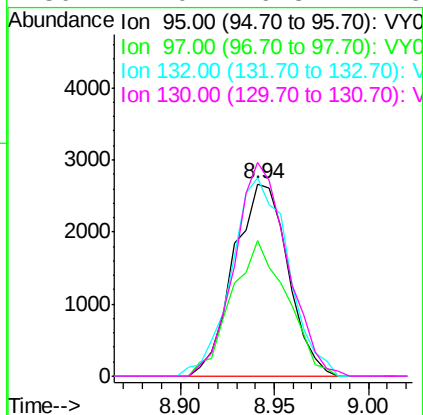
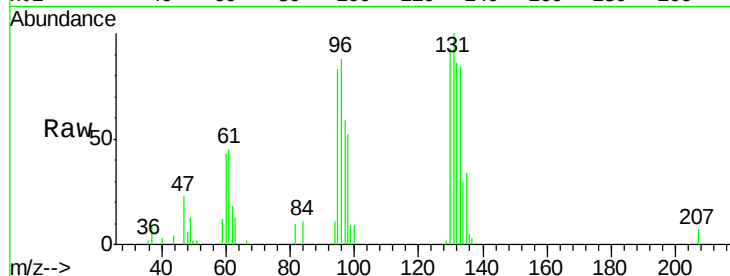
ClientSampleId :

MDL-SOIL-06

Tot Ion:	95	Resp:	5334
Ion	Ratio	Lower	Upper
95	100		
97	70.4	44.7	83.1
132	103.4	74.7	138.7
130	111.0	76.8	142.6

Manual Integrations
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MMDadoda
12/4/2020 11:27:28 AM



#35

Methylcyclohexane

Concen: 1.326 ug/L

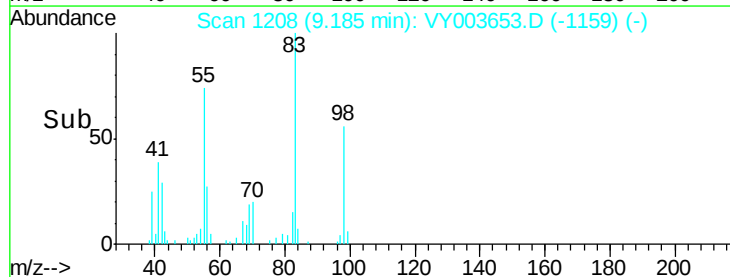
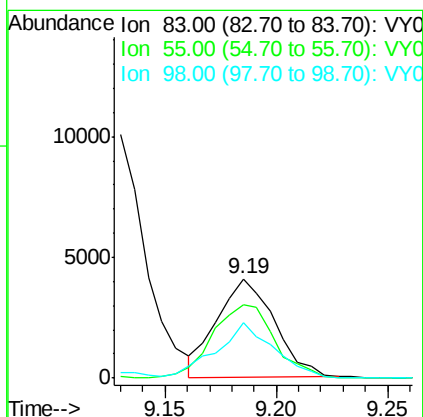
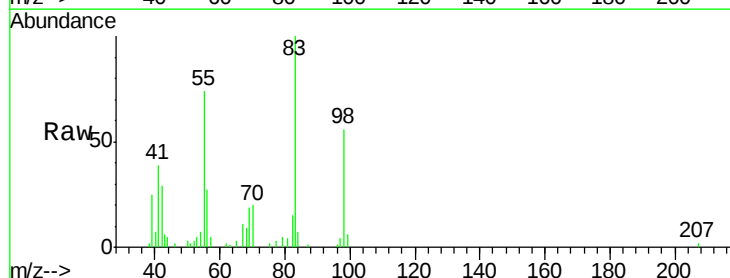
RT: 9.19 min Scan# 1208

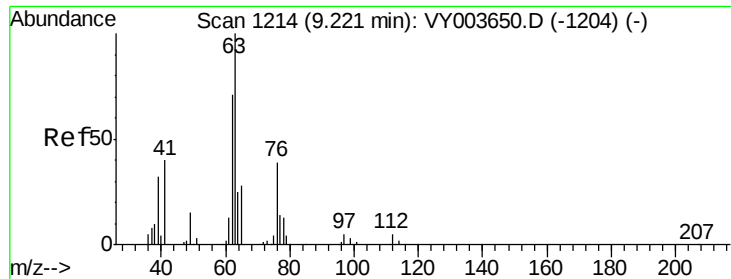
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	83	Resp:	7225
Ion	Ratio	Lower	Upper
83	100		
55	81.8	58.3	87.5
98	57.1	39.0	58.6





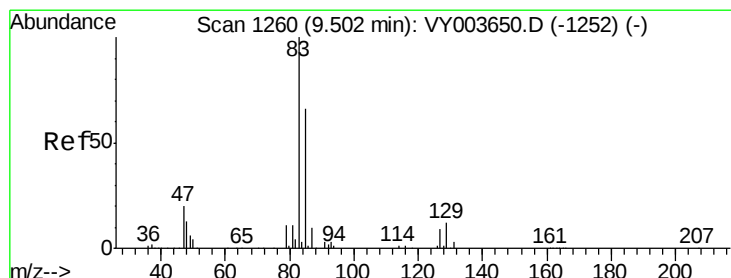
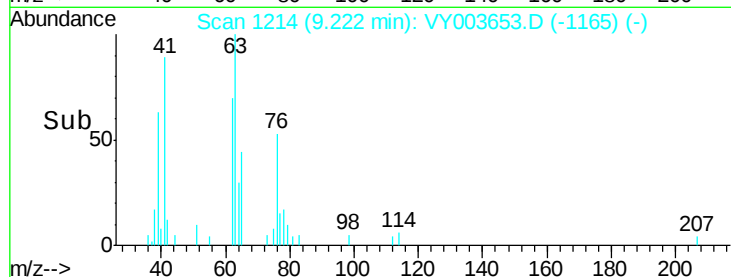
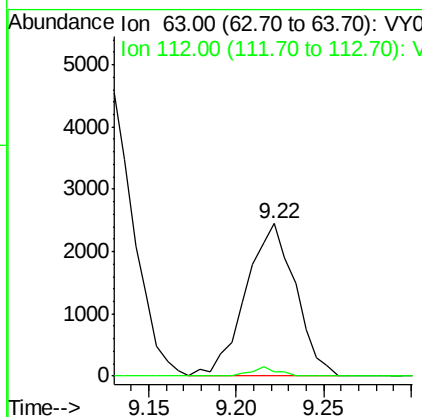
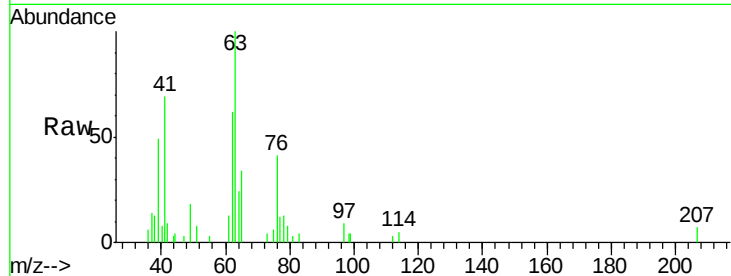
#37
 1,2-Dichloropropane
 Concen: 1.491 ug/L
 RT: 9.22 min Scan# 1214
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion: 63 Resp: 4834
 Ion Ratio Lower Upper
 63 100
 112 3.1 3.7 5.5#

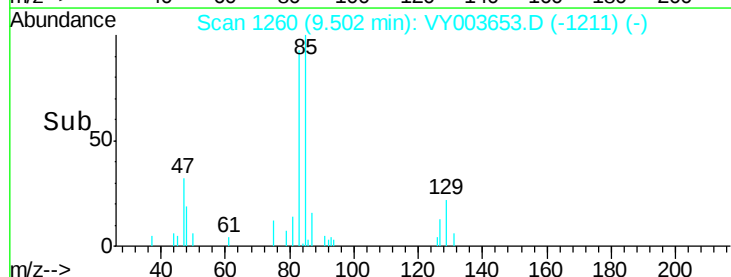
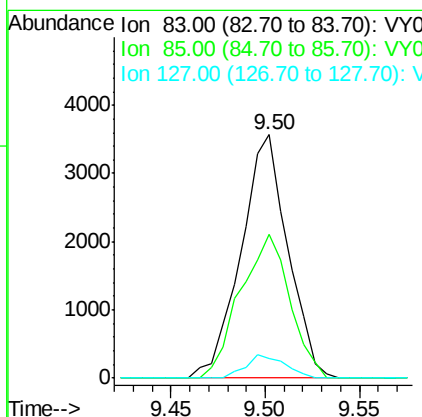
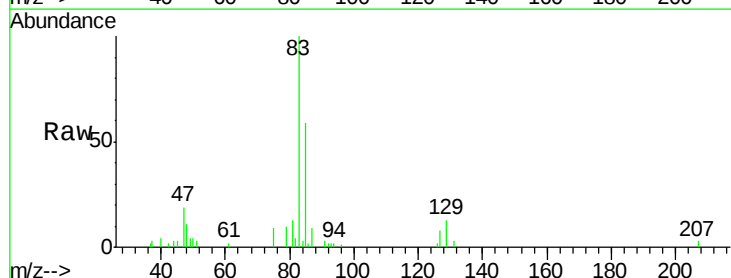
Manual Integrations
 APPROVED

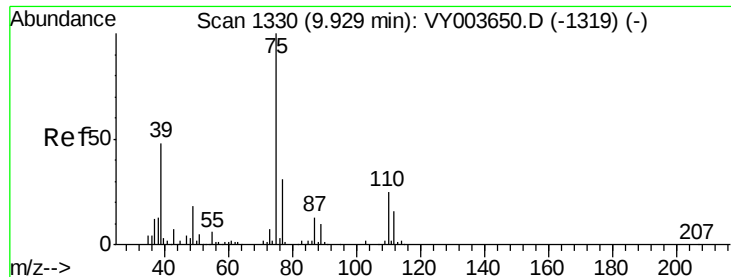
MMDadoda
 12/4/2020 11:27:28 AM



#38
 Bromodichloromethane
 Concen: 1.507 ug/L
 RT: 9.50 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion: 83 Resp: 6150
 Ion Ratio Lower Upper
 83 100
 85 59.0 43.1 80.1
 127 7.9 7.1 10.7





#39

cis-1,3-Dichloropropene

Concen: 1.507 ug/L

RT: 9.93 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 75 Resp: 7545

Ion Ratio Lower Upper

75 100

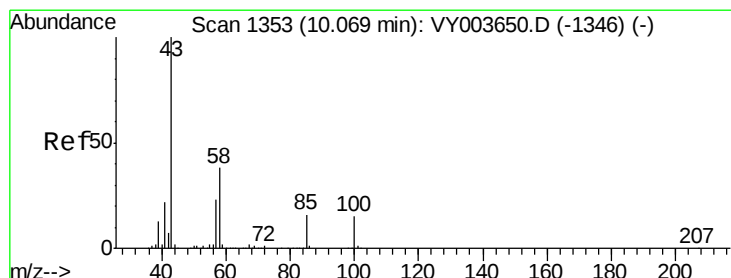
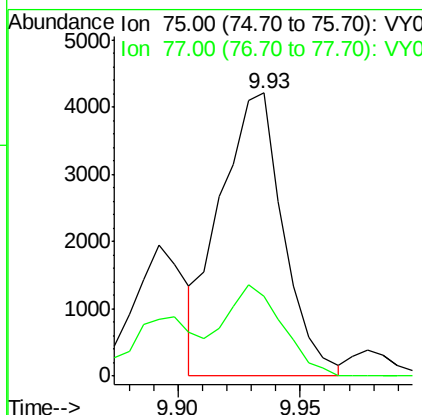
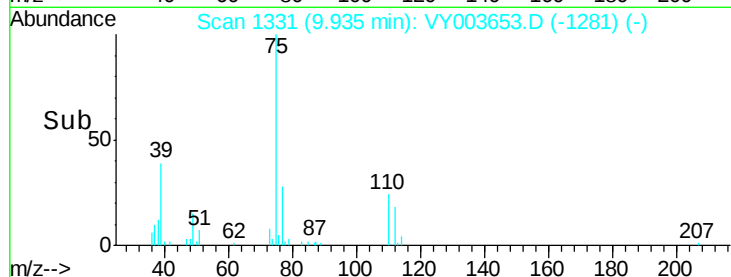
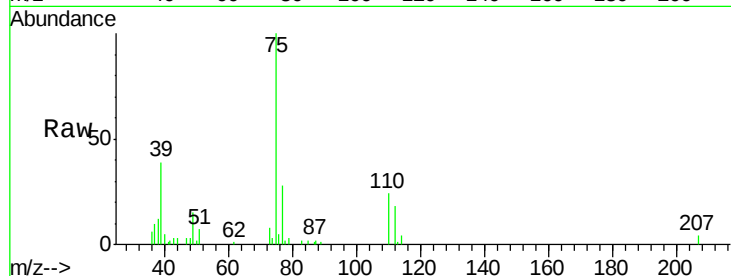
77 28.1 23.5 43.7

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MMDadoda

12/4/2020 11:27:28 AM



#40

4-Methyl-2-pentanone

Concen: 3.537 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

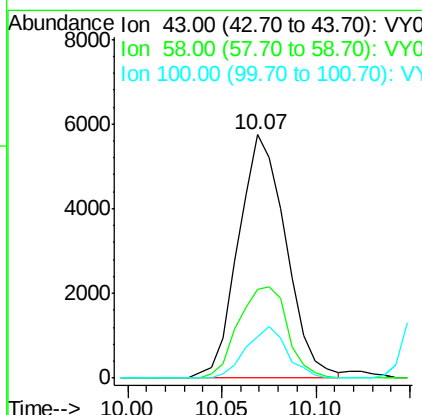
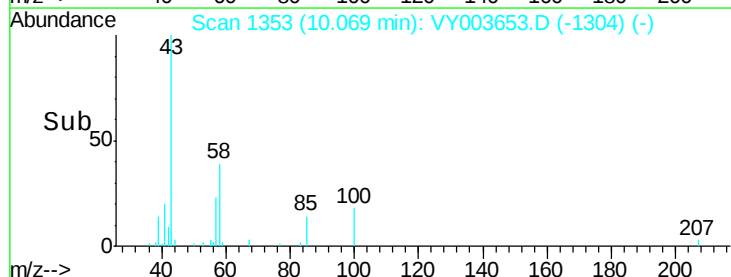
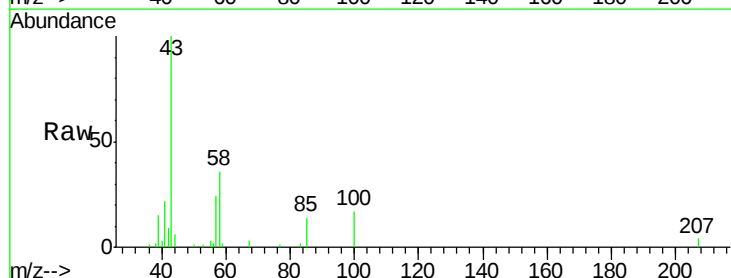
Tgt Ion: 43 Resp: 10067

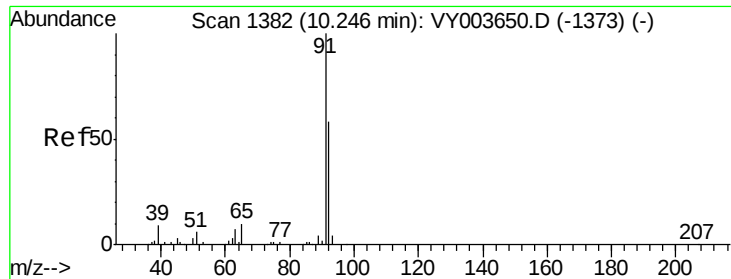
Ion Ratio Lower Upper

43 100

58 38.7 30.7 46.1

100 18.1 12.1 18.1#





#42

Toluene

Concen: 1.543 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 91 Resp: 20699

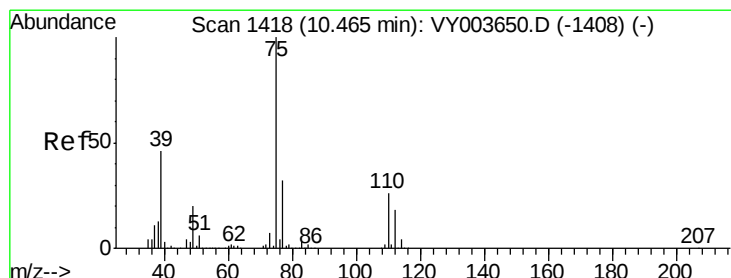
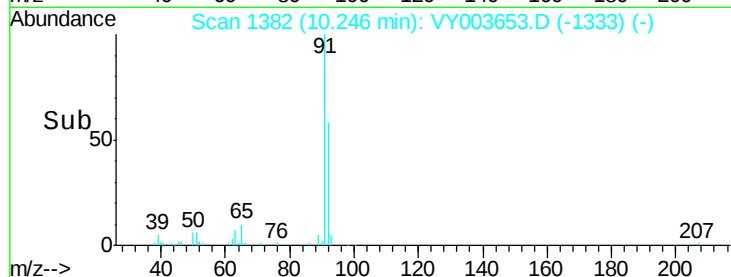
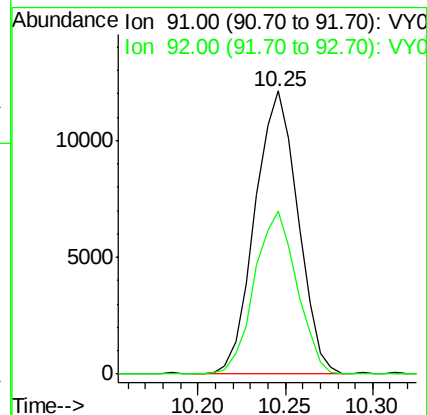
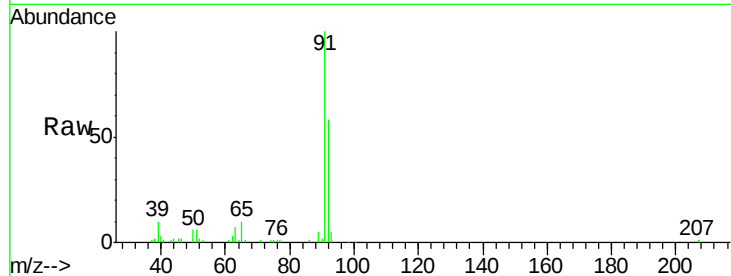
Ion Ratio Lower Upper

91 100

92 57.7 40.1 74.5

Manual Integrations
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#44

trans-1,3-Dichloropropene

Concen: 1.567 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003653.D

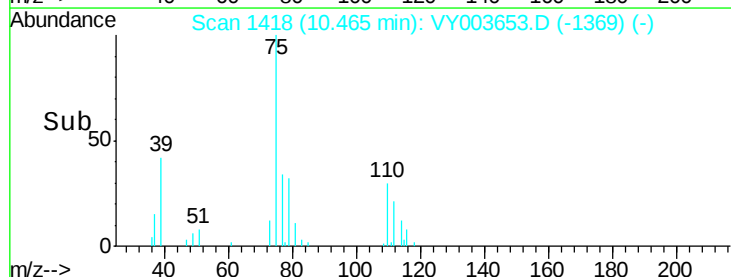
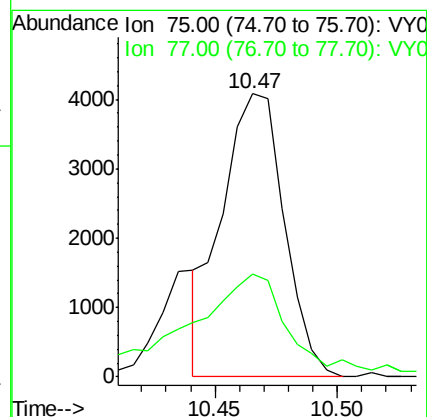
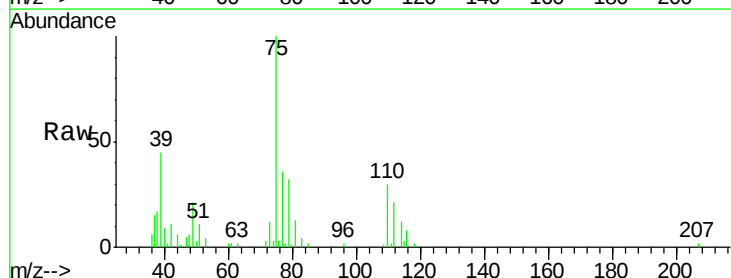
Acq: 03 Dec 2020 19:03

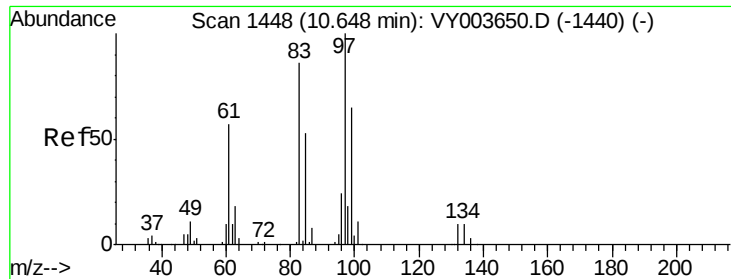
Tgt Ion: 75 Resp: 7243

Ion Ratio Lower Upper

75 100

77 36.3 22.9 42.5





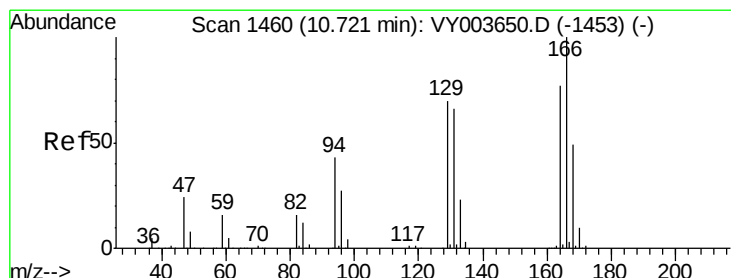
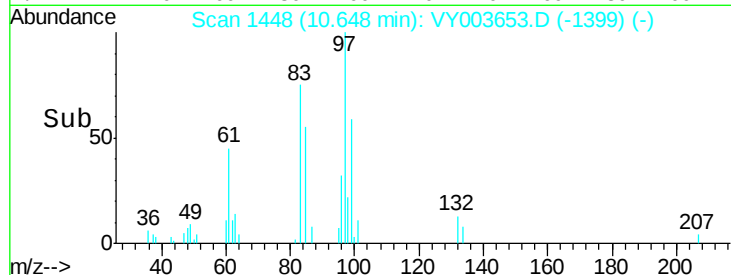
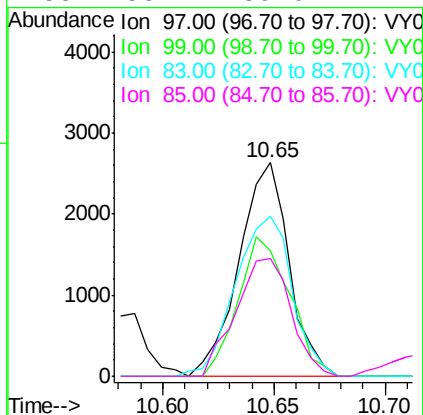
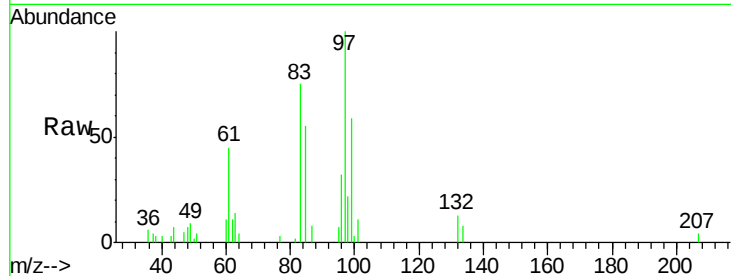
#45
1,1,2-Trichloroethane
Concen: 1.516 ug/L
RT: 10.65 min Scan# 1448
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:	97	Resp:	4127
Ion	Ratio	Lower	Upper
97	100		
99	58.7	45.1	83.9
83	74.7	59.7	110.9
85	55.4	39.0	72.4

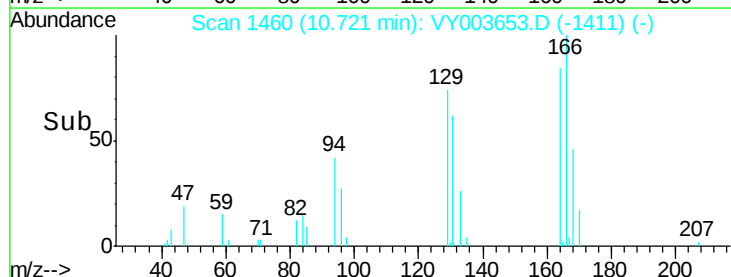
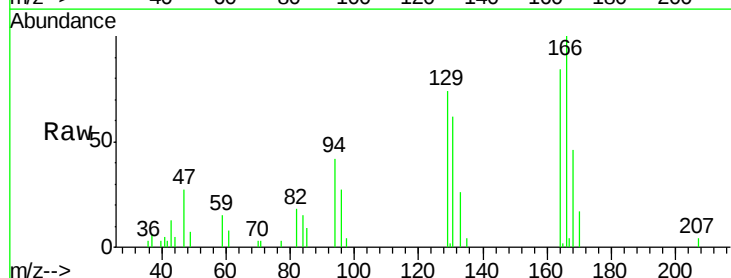
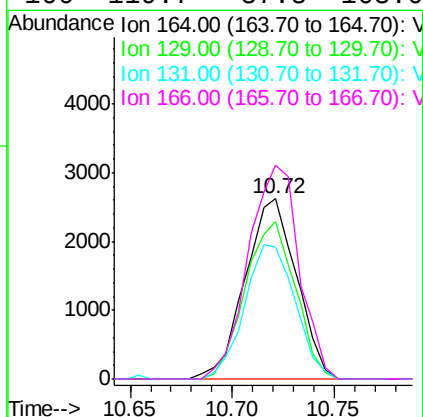
Manual Integrations
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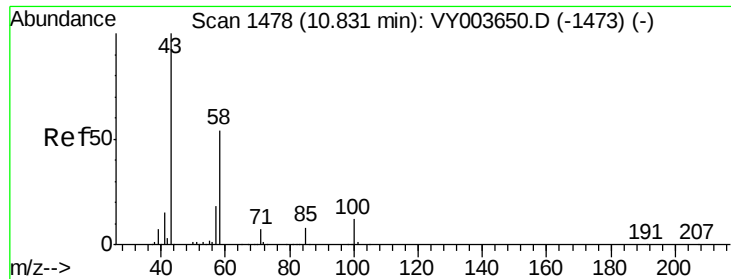
MMDadoda
12/4/2020 11:27:28 AM



#46
Tetrachloroethene
Concen: 1.682 ug/L
RT: 10.72 min Scan# 1460
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion:	164	Resp:	4588
Ion	Ratio	Lower	Upper
164	100		
129	85.2	58.9	109.5
131	71.2	59.0	109.6
166	119.7	87.8	163.0





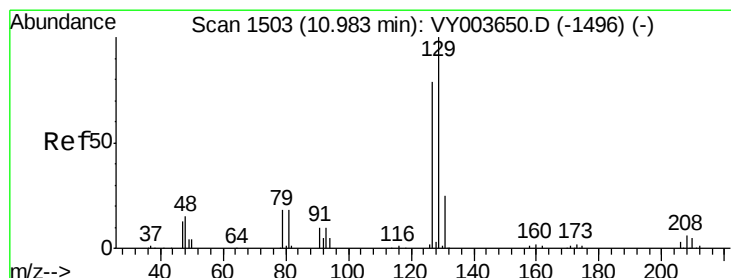
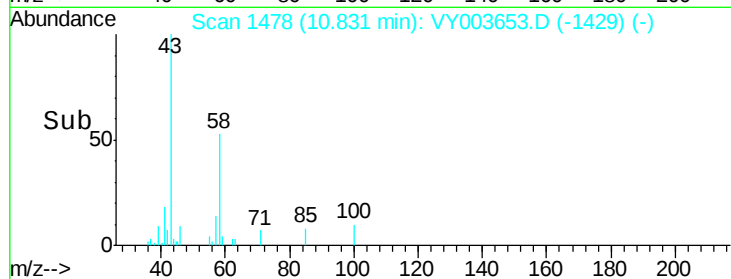
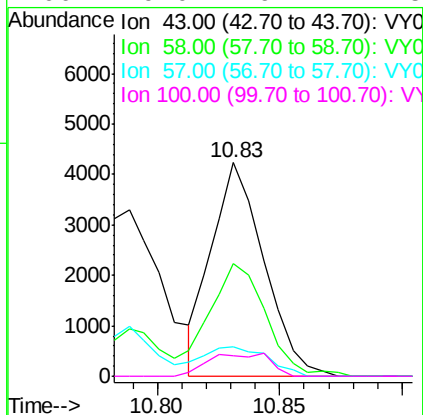
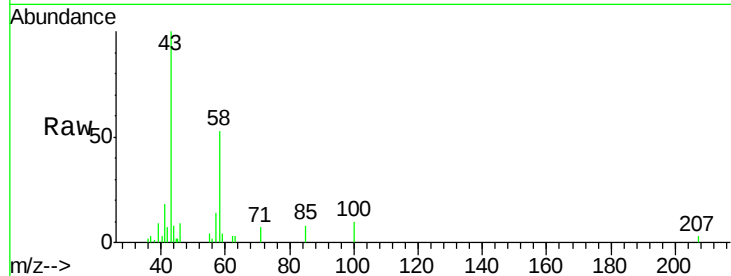
#48
2-Hexanone
Concen: 3.044 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.3	43.0	64.6
57	18.0	14.6	21.8
100	9.0	9.7	14.5

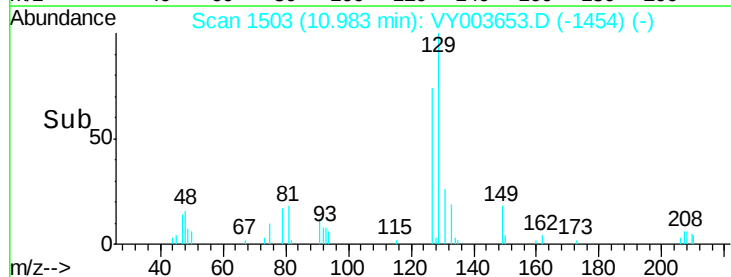
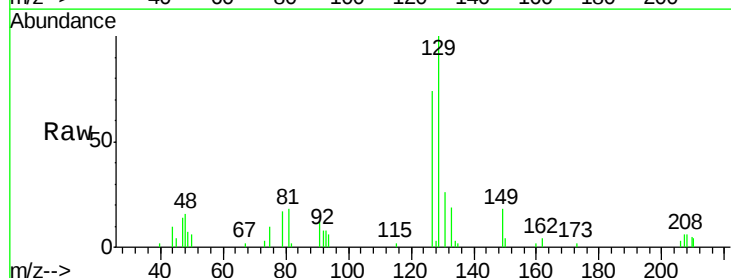
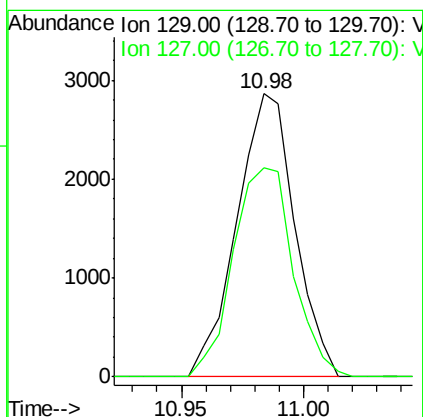
Manual Integrations
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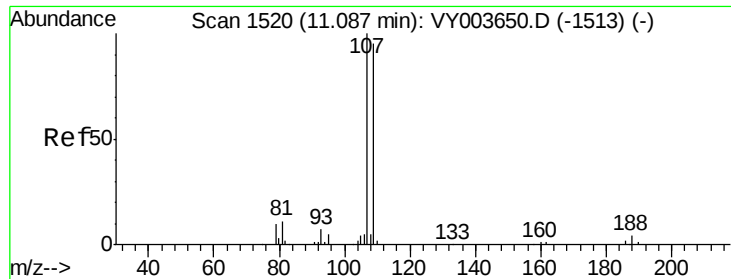
MMDadoda
12/4/2020 11:27:28 AM



#49
Dibromochloromethane
Concen: 1.506 ug/L
RT: 10.98 min Scan# 1503
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.8	55.0	102.2





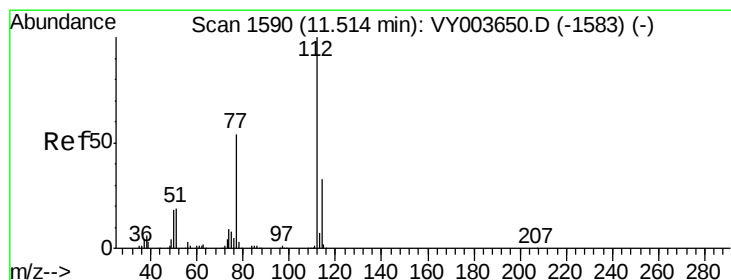
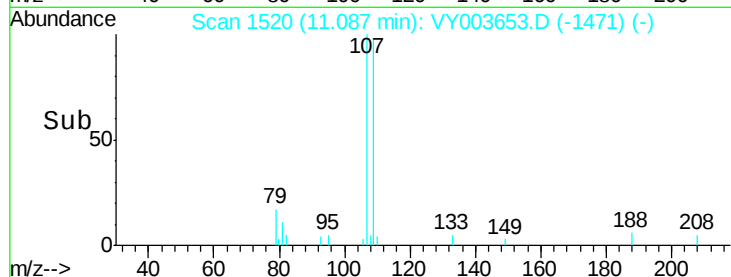
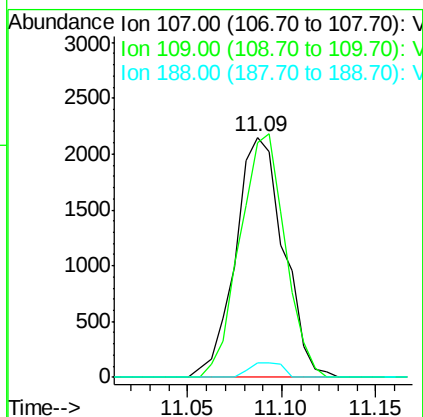
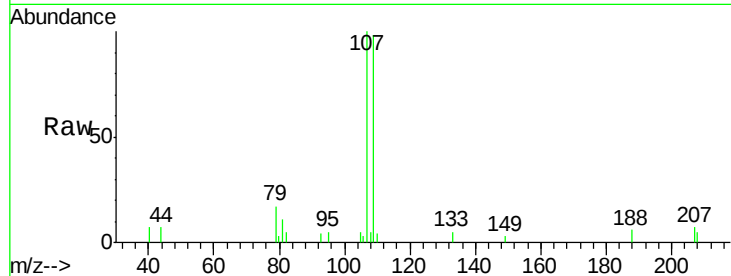
#50
1,2-Dibromoethane
Concen: 1.451 ug/L
RT: 11.09 min Scan# 1520
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.5	65.5	121.7
188	5.9	3.8	5.8#

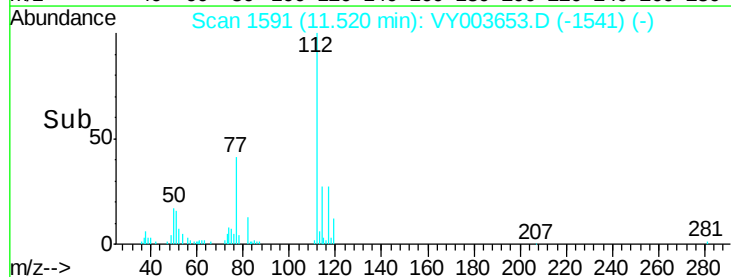
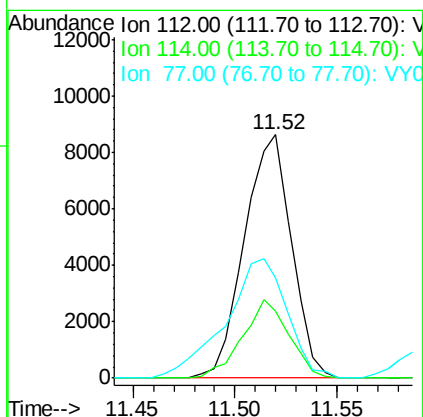
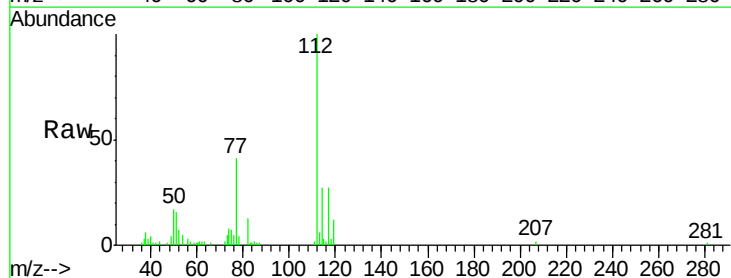
Manual Integrations
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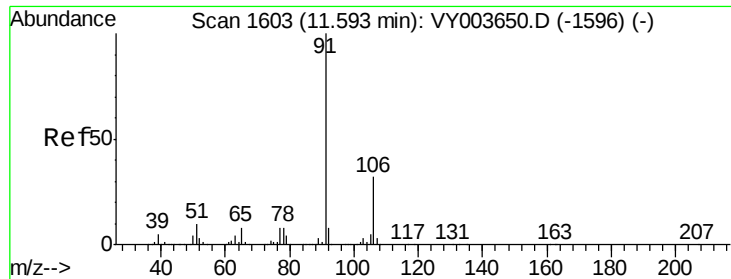
MMDadoda
12/4/2020 11:27:28 AM



#51
Chlorobenzene
Concen: 1.604 ug/L
RT: 11.52 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion	Ratio	Lower	Upper
112	100		
114	27.5	22.2	41.2
77	41.3	43.8	65.6#





#52

Ethylbenzene

Concen: 1.466 ug/L

RT: 11.59 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 91 Resp: 21050

Ion Ratio Lower Upper

91 100

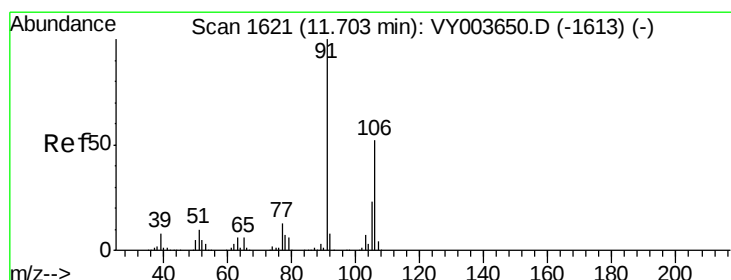
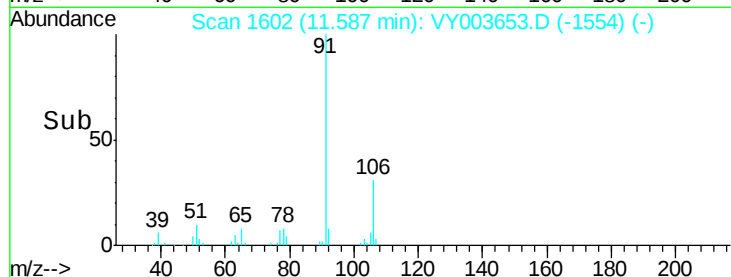
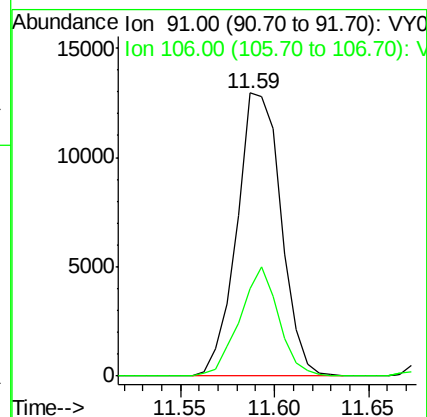
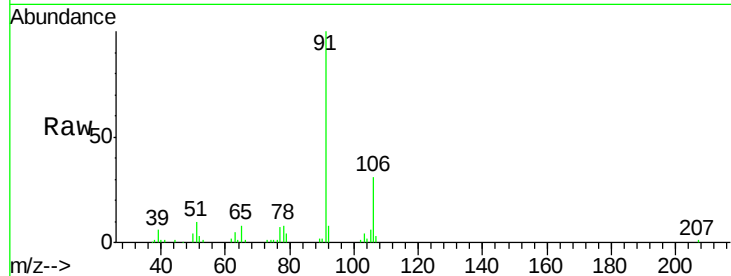
106 31.1 22.8 42.4

Manual Integrations

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#53

m,p-Xylene

Concen: 1.473 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003653.D

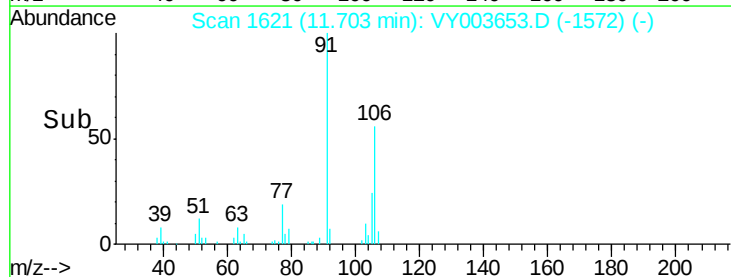
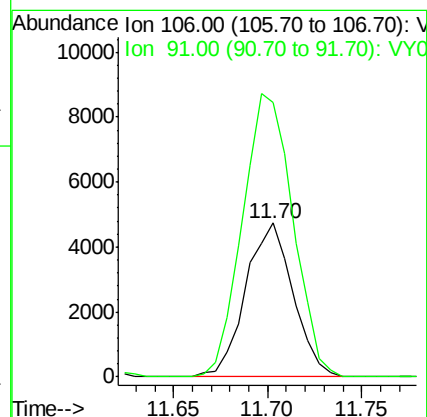
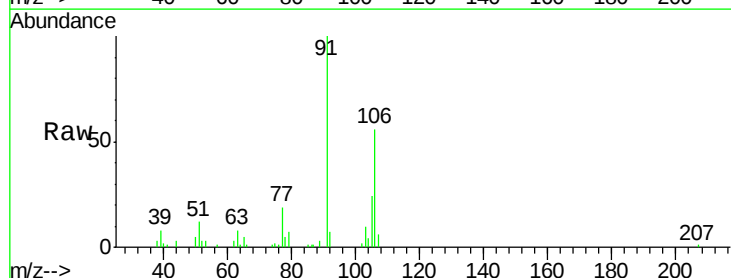
Acq: 03 Dec 2020 19:03

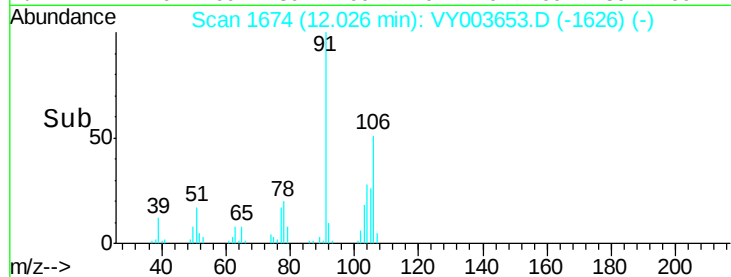
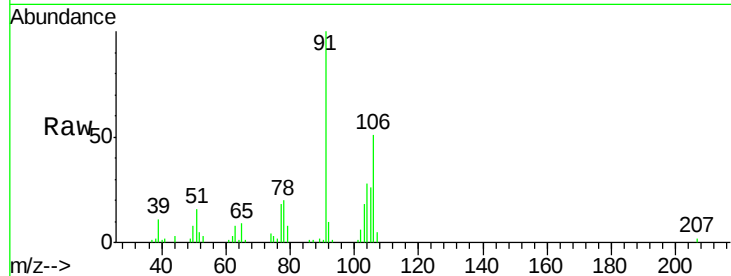
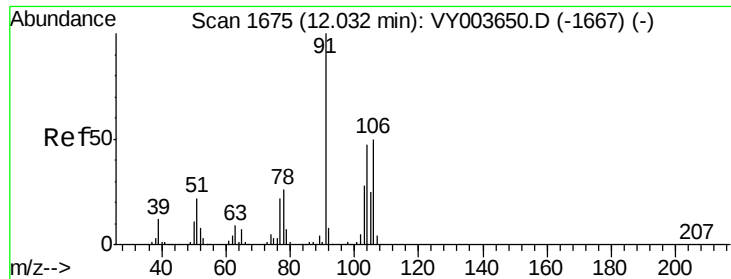
Tgt Ion: 106 Resp: 8269

Ion Ratio Lower Upper

106 100

91 178.5 133.1 247.3





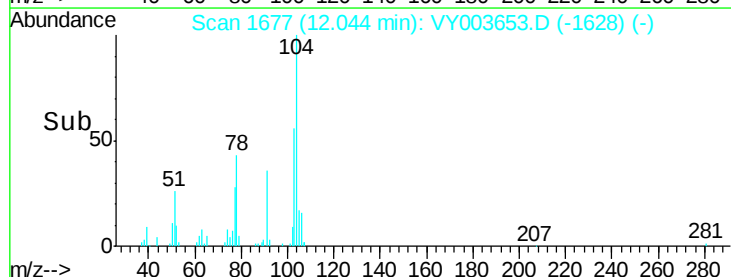
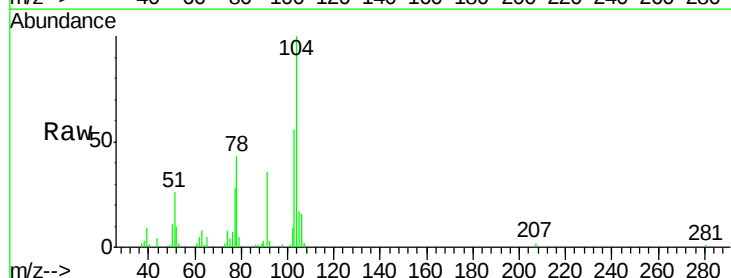
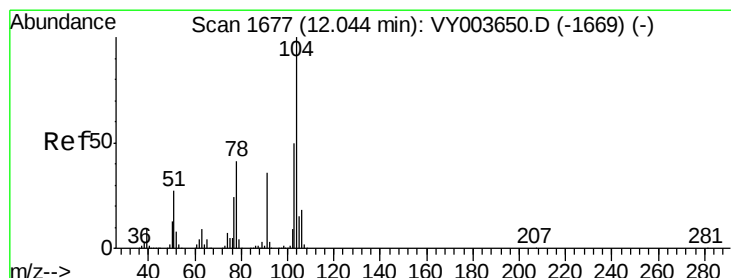
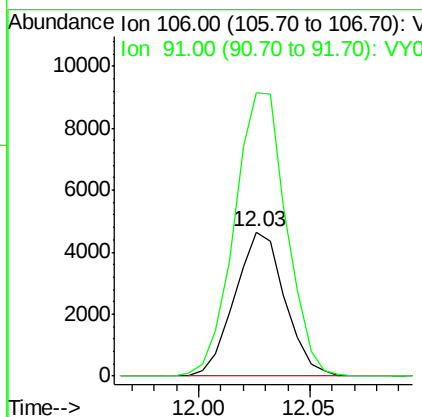
#54
o-Xylene
Concen: 1.369 ug/L
RT: 12.03 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tot Ion:106 Resp: 7257
Ion Ratio Lower Upper
106 100
91 196.7 144.1 267.5

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

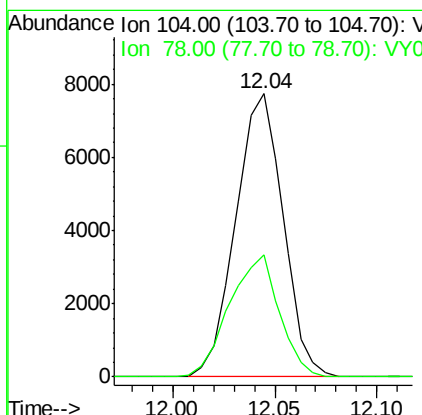
Manual Integrations
APPROVED

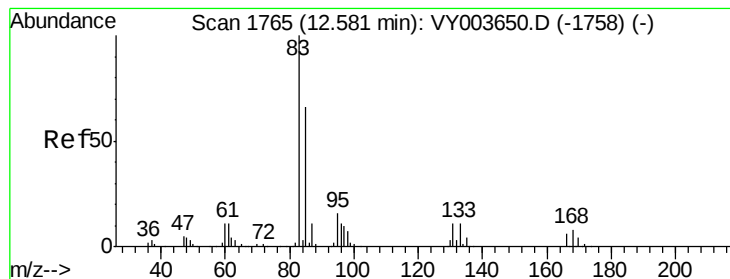
MMDadoda
12/4/2020 11:27:28 AM



#55
Styrene
Concen: 1.380 ug/L
RT: 12.04 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion:104 Resp: 12519
Ion Ratio Lower Upper
104 100
78 43.0 27.6 51.4





#57

1,1,2,2-Tetrachloroethane

Concen: 1.388 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

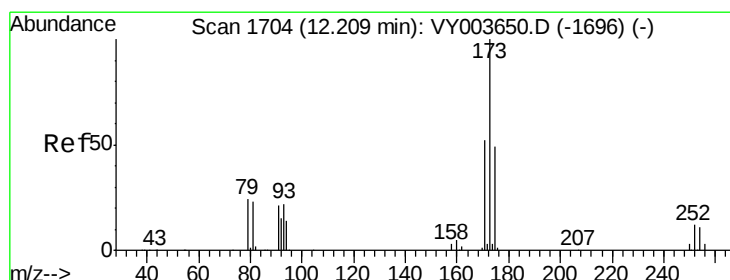
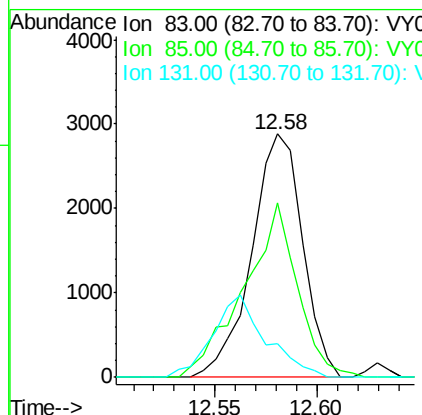
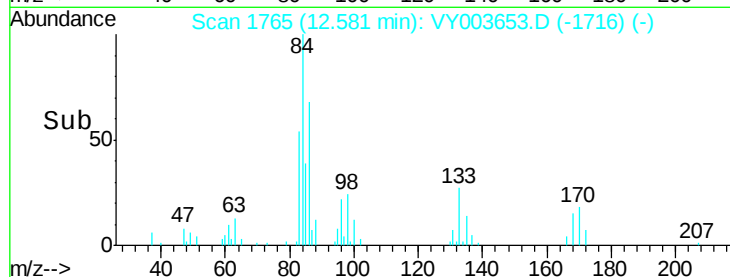
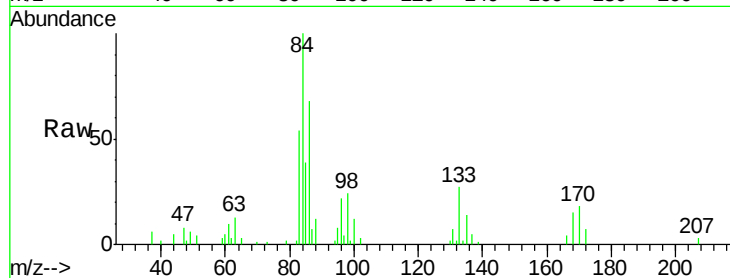
ClientSampleId :

MDL-SOIL-06

Tot Ion:	83	Resp:	5008
Ion Ratio	Lower	Upper	
83	100		
85	71.9	46.1	85.7
131	13.8	8.1	12.1

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#59

Bromoform

Concen: 1.442 ug/L

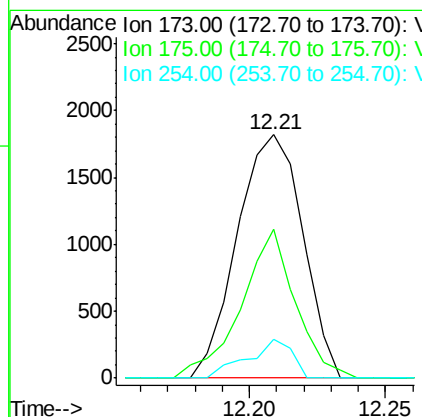
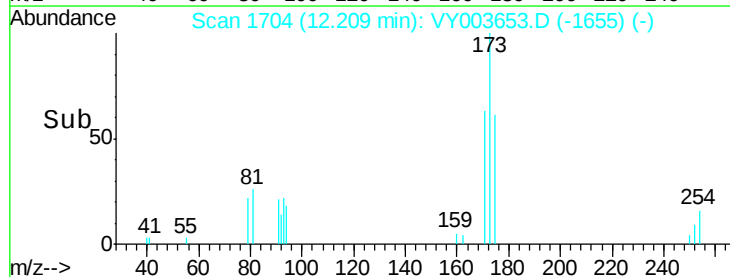
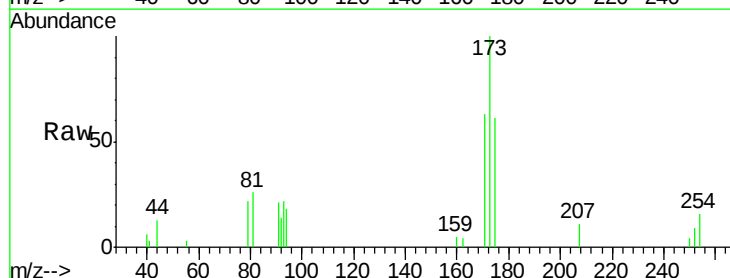
RT: 12.21 min Scan# 1704

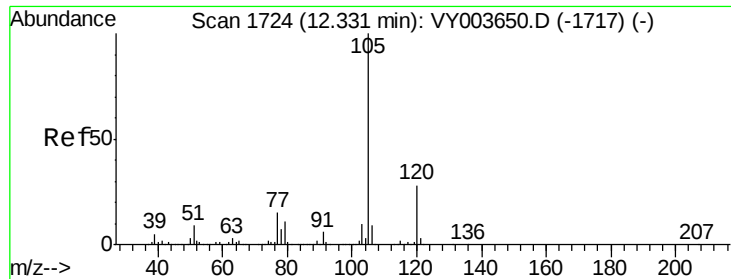
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	173	Resp:	3035
Ion Ratio	Lower	Upper	
173	100		
175	50.6	38.2	57.4
254	10.8	8.0	12.0





#60

Isopropylbenzene

Concen: 1.422 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

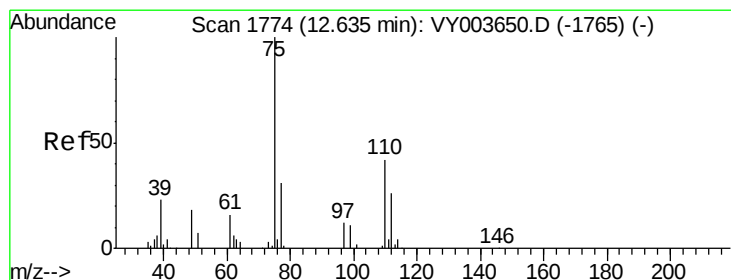
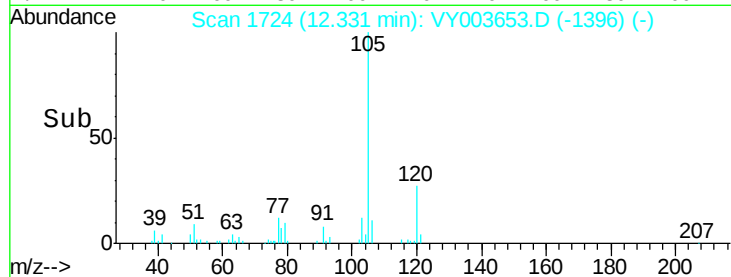
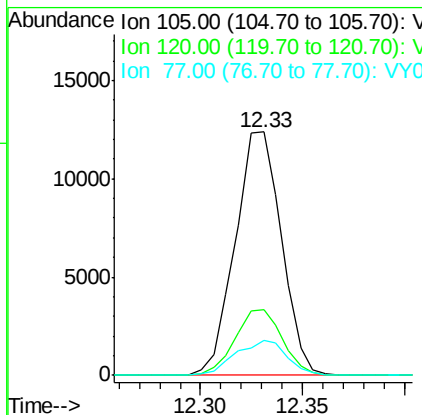
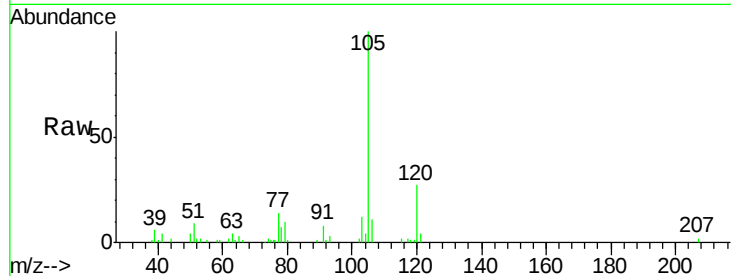
ClientSampleId :

MDL-SOIL-06

Tot Ion:	105	Resp:	19490
Ion Ratio	Lower	Upper	
105	100		
120	27.7	22.0	33.0
77	15.8	12.1	18.1

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#61

1,2,3-Trichloropropane

Concen: 1.558 ug/L

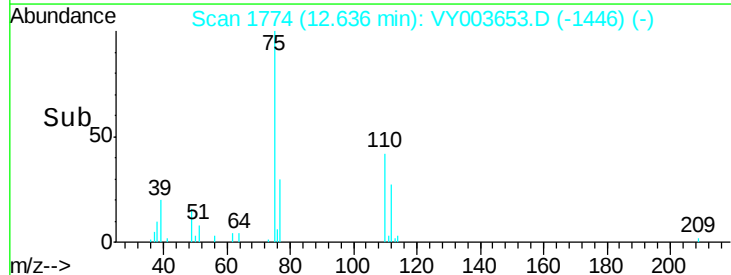
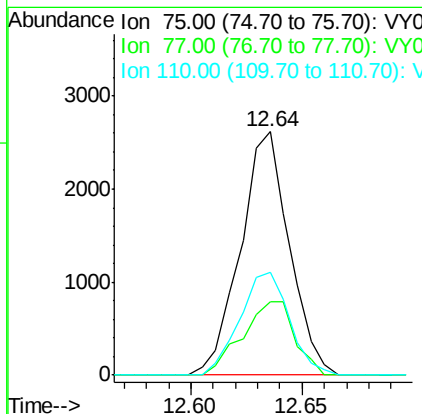
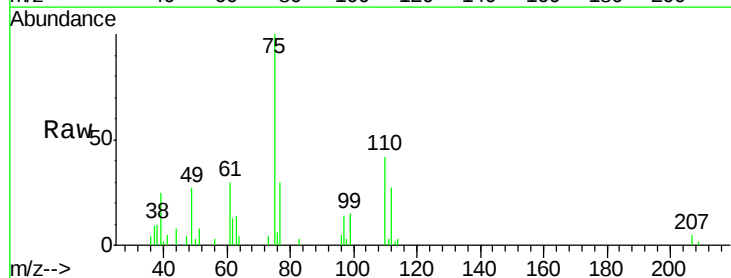
RT: 12.64 min Scan# 1774

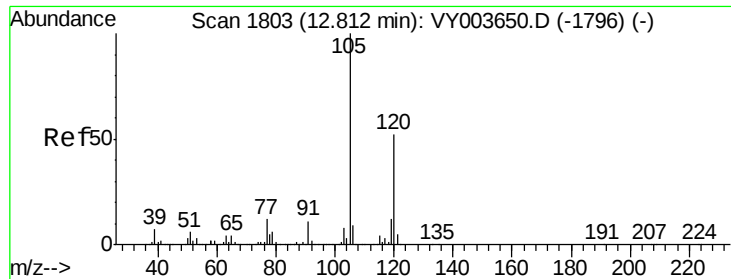
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	75	Resp:	3994
Ion Ratio	Lower	Upper	
75	100		
77	32.3	26.3	39.5
110	42.7	33.0	49.4





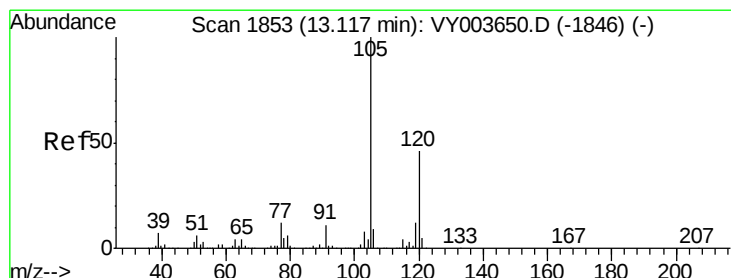
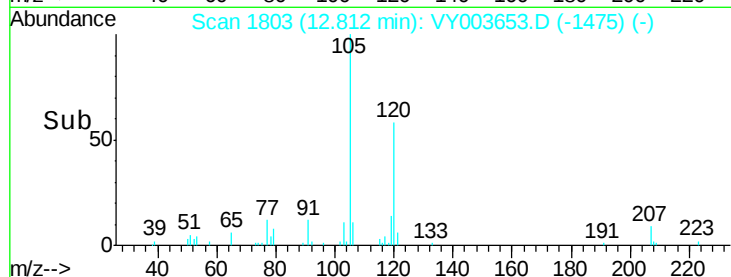
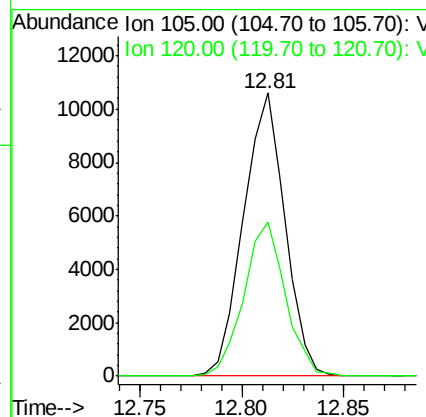
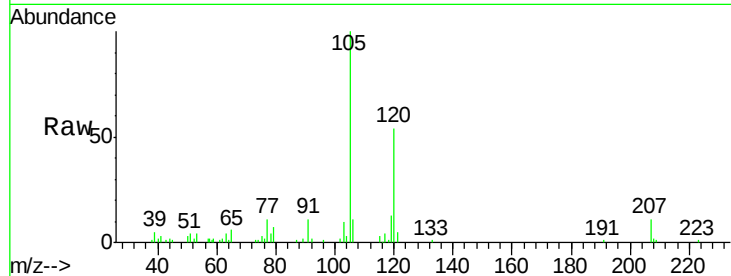
#62
 1,3,5-Trimethylbenzene
 Concen: 1.377 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion:105 Resp: 14966
 Ion Ratio Lower Upper
 105 100
 120 54.5 40.4 60.6

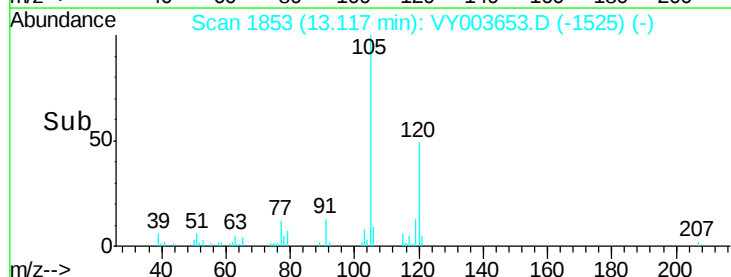
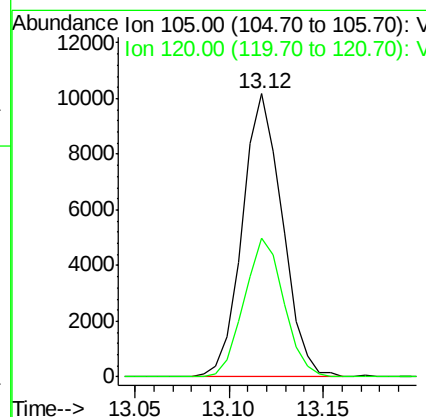
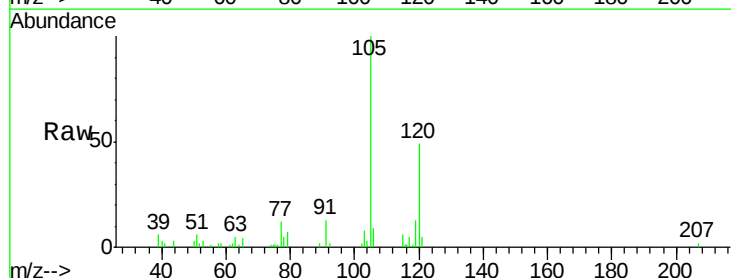
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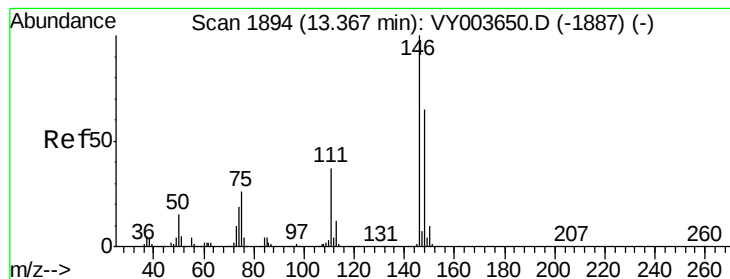
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.395 ug/L
 RT: 13.12 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion:105 Resp: 14980
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.0 57.0





#64

1,3-Dichlorobenzene

Concen: 1.638 ug/L

RT: 13.36 min Scan# 1893

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

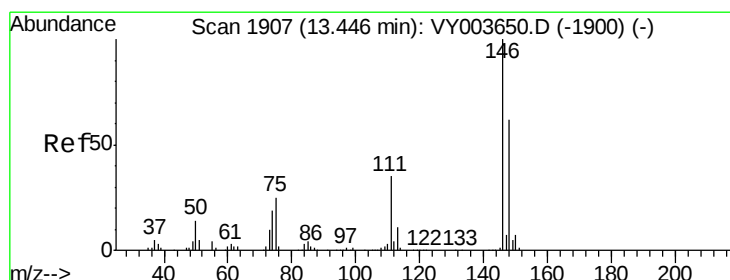
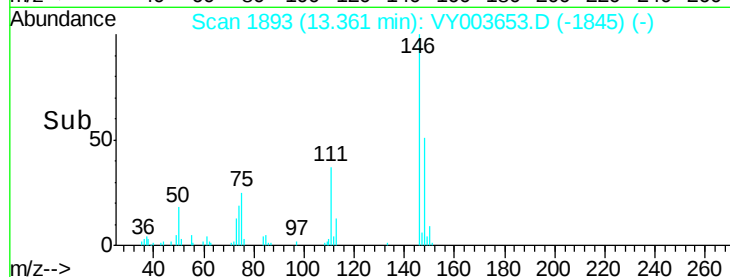
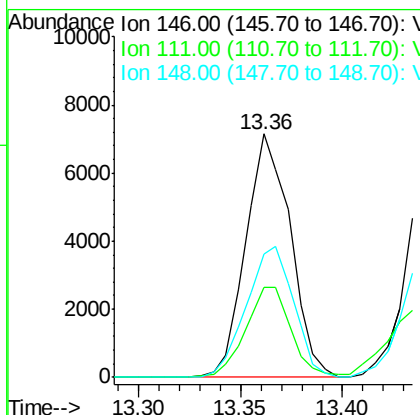
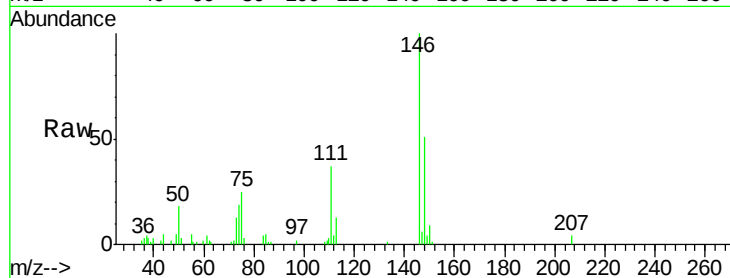
ClientSampleId :

MDL-SOIL-06

Tot Ion:	146	Resp:	10859
Ion Ratio	Lower	Upper	
146	100		
111	37.2	26.6	49.4
148	50.7	46.3	86.1

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#65

1,4-Dichlorobenzene

Concen: 1.646 ug/L

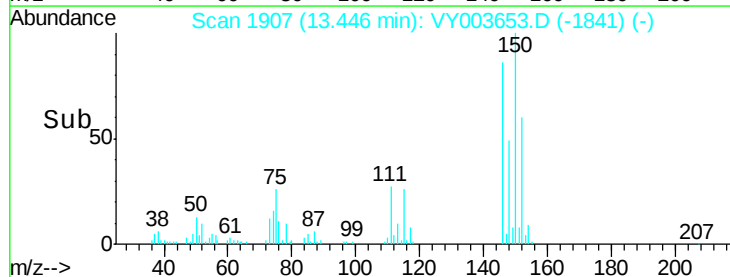
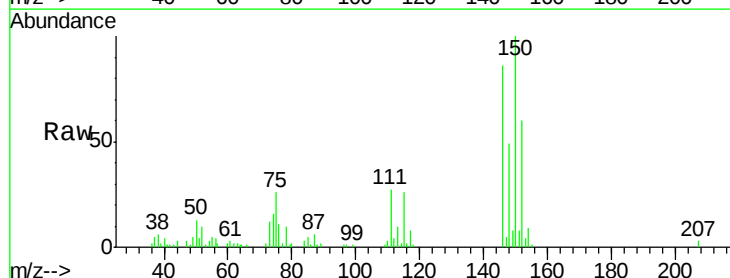
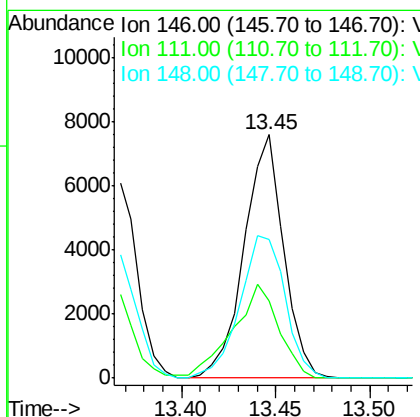
RT: 13.45 min Scan# 1907

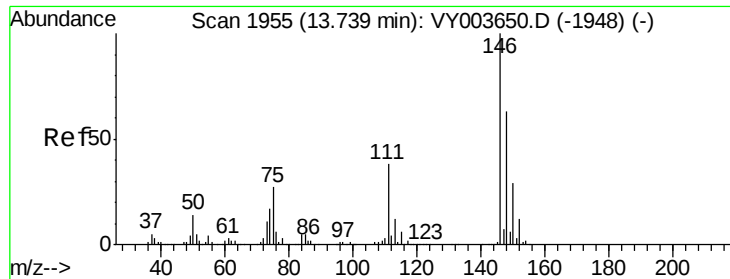
Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion:	146	Resp:	11093
Ion Ratio	Lower	Upper	
146	100		
111	31.8	24.7	45.9
148	57.0	43.4	80.6





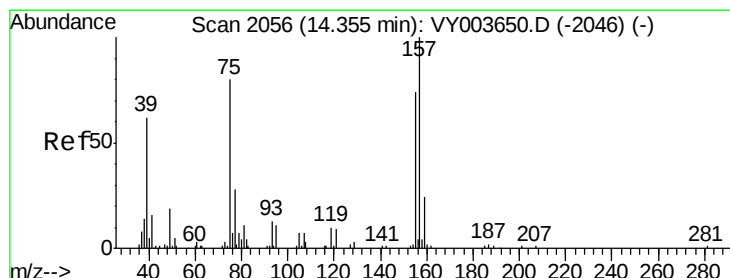
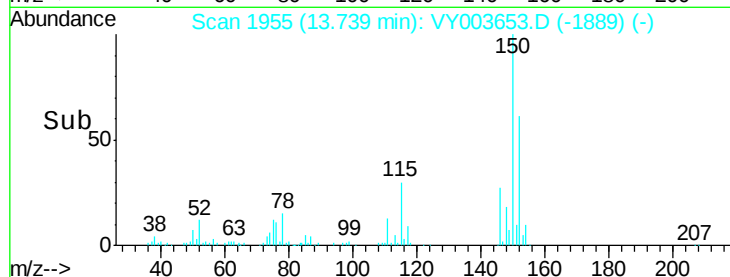
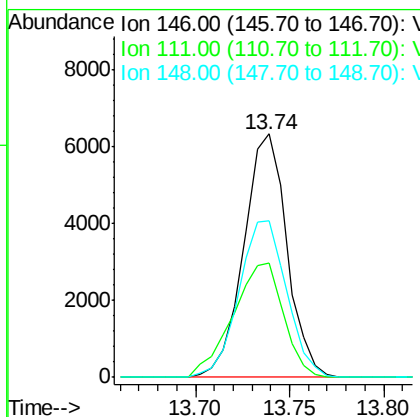
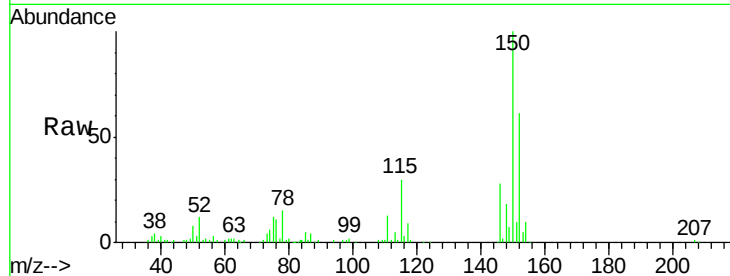
#67
 1,2-Dichlorobenzene
 Concen: 1.617 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	31.0	46.6#
148	64.5	51.0	76.4

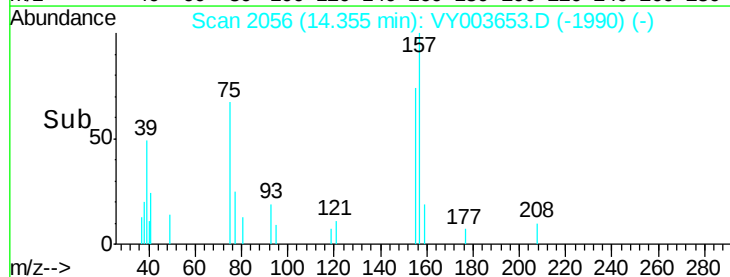
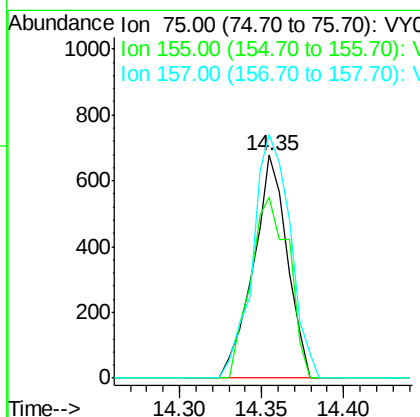
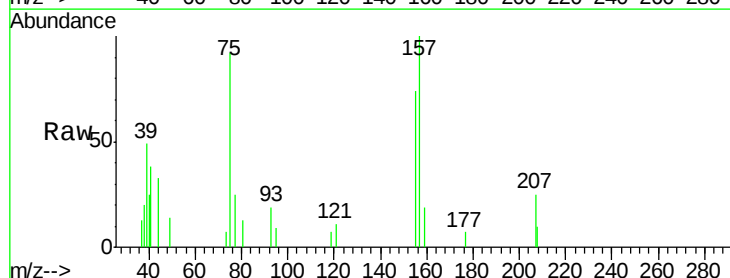
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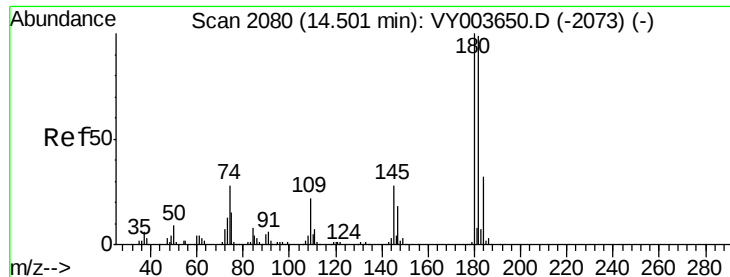
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.637 ug/L m
 RT: 14.35 min Scan# 2056
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.8	73.4	110.0
157	109.1	98.1	147.1





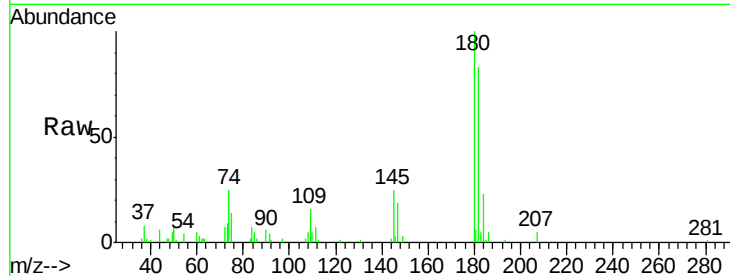
#69
 1,3,5-Trichlorobenzene
 Concen: 1.756 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.8	75.4	113.0
184	27.4	24.1	36.1
145	26.2	22.4	33.6

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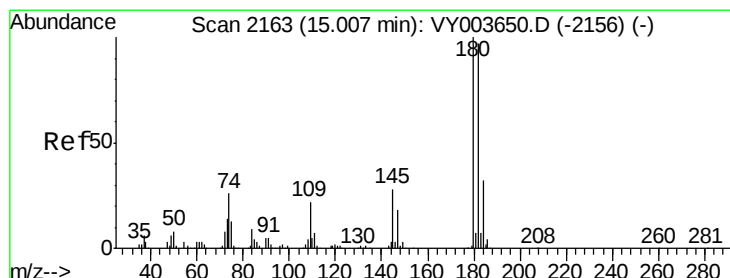
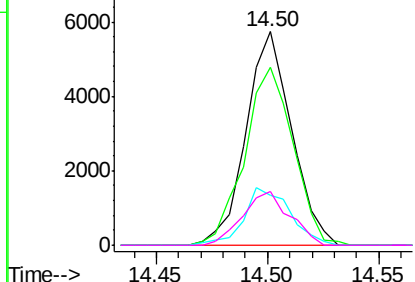
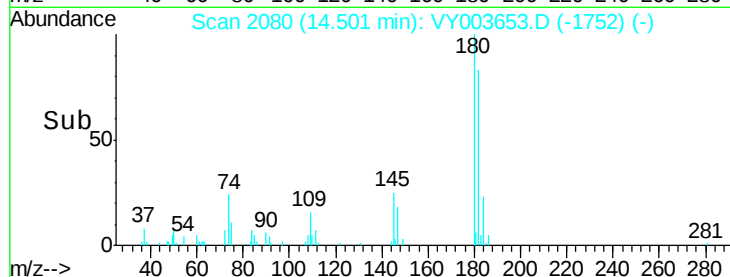


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

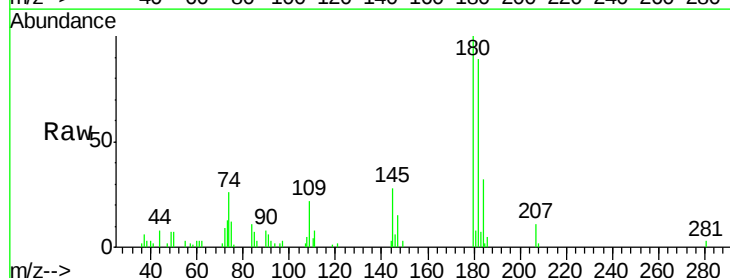
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.599 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

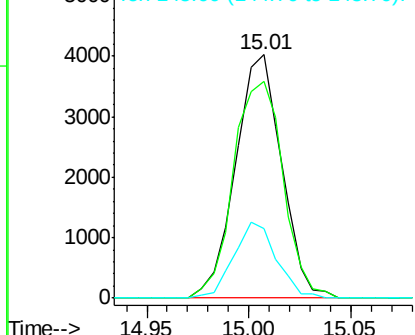
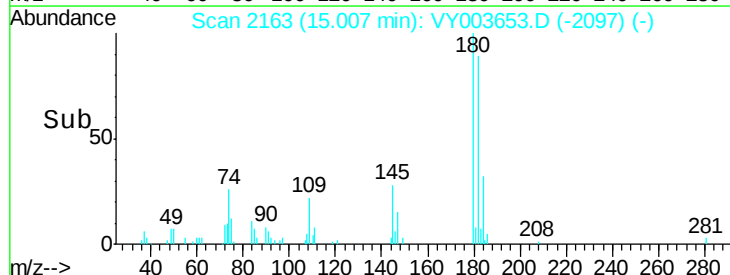
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.1	114.1
145	28.6	22.8	34.2

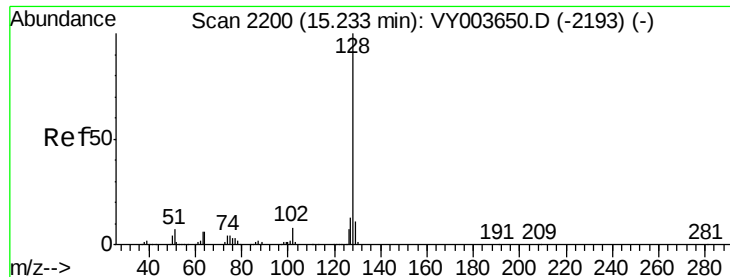


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





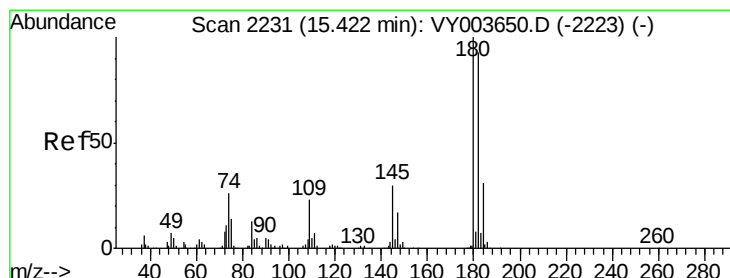
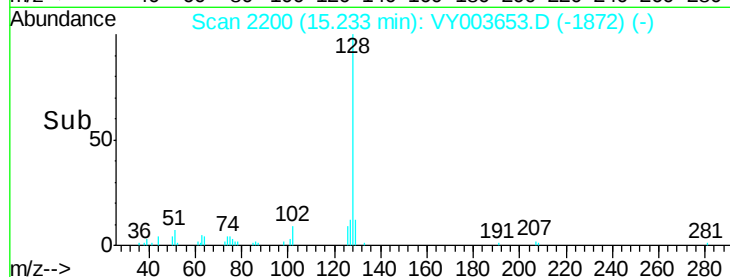
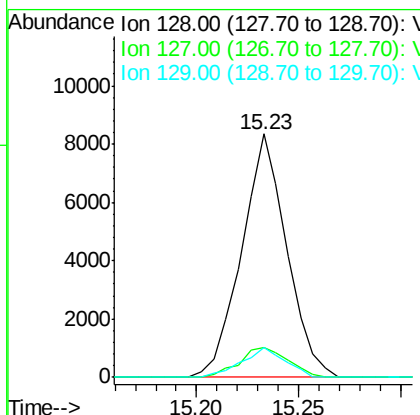
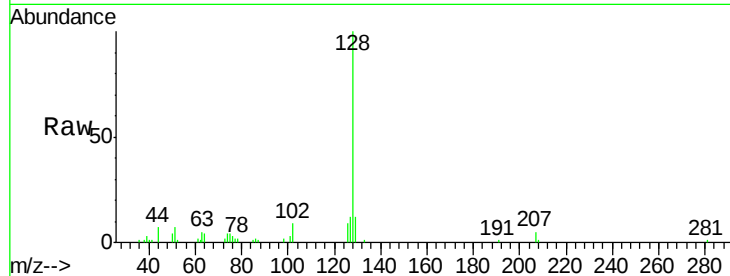
#71
Naphthalene
Concen: 1.482 ug/L
RT: 15.23 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.7	8.5	12.7

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#72
1,2,3-Trichlorobenzene
Concen: 1.563 ug/L
RT: 15.42 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.8	76.2	114.4
145	31.5	23.6	35.4

