

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
 Data File : VY003654.D
 Acq On : 03 Dec 2020 19:25
 Operator : SY/MD
 Sample : L4485-07
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Manual Integrations
 APPROVED

MMDadoda
 12/4/2020 11:27:30 AM

Quant Time: Dec 04 00:45:27 2020

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

Quant Title : VOC Analysis

QLast Update : Fri Dec 04 00:41:17 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	222984	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	213523	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	106411	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	53093	18.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.92%
7) Chloroethane-d5	2.77	69	45088	19.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.80%
11) 1,1-Dichloroethene-d2	3.86	63	88540	15.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.08%
21) 2-Butanone-d5	6.90	46	60234	48.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.32%
24) Chloroform-d	7.49	84	122553	21.67	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.68%
26) 1,2-Dichloroethane-d4	8.15	65	68930	22.50	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.00%
32) Benzene-d6	8.12	84	256727	21.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.64%
36) 1,2-Dichloropropane-d6	9.12	67	78410	21.22	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	84.88%
41) Toluene-d8	10.18	98	230362	21.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	10.44	79	36998	21.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.52%
47) 2-Hexanone-d5	10.79	63	48382	48.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.98%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	68927	18.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	73.76%
66) 1,2-Dichlorobenzene-d4	13.72	152	88244	23.37	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.48%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	3271	1.264 ug/L	96
3) Chloromethane	2.12	50	4595	1.637 ug/L	95
5) Vinyl chloride	2.25	62	3980	1.322 ug/L #	59
6) Bromomethane	2.66	94	2481	1.316 ug/L	81
8) Chloroethane	2.80	64	2468	1.313 ug/L	97
9) Trichlorofluoromethane	3.14	101	6201	1.357 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	3.91	101	4764	1.561 ug/L #	47
12) 1,1-Dichloroethene	3.87	96	4391	1.515 ug/L #	1
13) Acetone	3.95	43	3276m	3.655 ug/L	
14) Carbon disulfide	4.20	76	11927	1.246 ug/L	100
15) Methyl Acetate	4.49	43	3397	1.574 ug/L	96
16) Methylene chloride	4.73	84	14827	3.939 ug/L	95
17) trans-1,2-Dichloroethene	5.23	96	3541	1.112 ug/L	89
18) Methyl tert-butyl Ether	5.23	73	9681m	1.244 ug/L	
19) 1,1-Dichloroethane	6.03	63	6716	1.253 ug/L	92
20) cis-1,2-Dichloroethene	7.00	96	4483	1.343 ug/L	94
22) 2-Butanone	7.00	43	5495	3.646 ug/L	98

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Manual Integrations
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 12/4/2020 11:27:30 AM

Quant Time: Dec 04 00:45:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 04 00:41:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.34	128	2145	1.317	ug/L	83
25) Chloroform	7.51	83	7679	1.430	ug/L	79
27) 1,2-Dichloroethane	8.24	62	4759	1.347	ug/L #	95
29) Cyclohexane	7.79	56	5445	1.074	ug/L	92
30) 1,1,1-Trichloroethane	7.71	97	6469	1.329	ug/L #	86
31) Carbon tetrachloride	7.91	117	5296	1.205	ug/L	99
33) Benzene	8.17	78	16002	1.226	ug/L	100
34) Trichloroethene	8.94	95	4638	1.424	ug/L	89
35) Methylcyclohexane	9.19	83	6285	1.128	ug/L	91
37) 1,2-Dichloropropane	9.22	63	4148	1.252	ug/L #	86
38) Bromodichloromethane	9.50	83	5220	1.252	ug/L #	98
39) cis-1,3-Dichloropropene	9.93	75	6477m	1.266	ug/L	
40) 4-Methyl-2-pentanone	10.07	43	9083	3.123	ug/L	96
42) Toluene	10.25	91	17459	1.274	ug/L	99
44) trans-1,3-Dichloropropene	10.47	75	7701	1.630	ug/L	98
45) 1,1,2-Trichloroethane	10.64	97	3441	1.237	ug/L	98
46) Tetrachloroethene	10.72	164	3505	1.257	ug/L	87
48) 2-Hexanone	10.83	43	4867	2.292	ug/L #	94
49) Dibromochloromethane	10.99	129	3950	1.229	ug/L	100
50) 1,2-Dibromoethane	11.09	107	3375	1.254	ug/L #	92
51) Chlorobenzene	11.51	112	11443	1.296	ug/L	96
52) Ethylbenzene	11.59	91	17570	1.198	ug/L	98
53) m,p-Xylene	11.70	106	7051	1.229	ug/L	90
54) o-Xylene	12.03	106	6286	1.160	ug/L	100
55) Styrene	12.04	104	10037	1.083	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.58	83	3757	1.019	ug/L	87
59) Bromoform	12.21	173	2595	1.242	ug/L #	93
60) Isopropylbenzene	12.33	105	15783	1.160	ug/L	98
61) 1,2,3-Trichloropropane	12.63	75	3274	1.287	ug/L	98
62) 1,3,5-Trimethylbenzene	12.81	105	12092	1.121	ug/L	99
63) 1,2,4-Trimethylbenzene	13.12	105	12131	1.138	ug/L	98
64) 1,3-Dichlorobenzene	13.36	146	9044	1.374	ug/L	98
65) 1,4-Dichlorobenzene	13.44	146	9277	1.387	ug/L	98
67) 1,2-Dichlorobenzene	13.74	146	8629	1.396	ug/L	92
68) 1,2-Dibromo-3-chloropropan	14.35	75	790m	1.338	ug/L	
69) 1,3,5-Trichlorobenzene	14.50	180	6239	1.349	ug/L	98
70) 1,2,4-trichlorobenzene	15.01	180	5176	1.314	ug/L	99
71) Naphthalene	15.23	128	10342	1.203	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	4533	1.253	ug/L	97

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

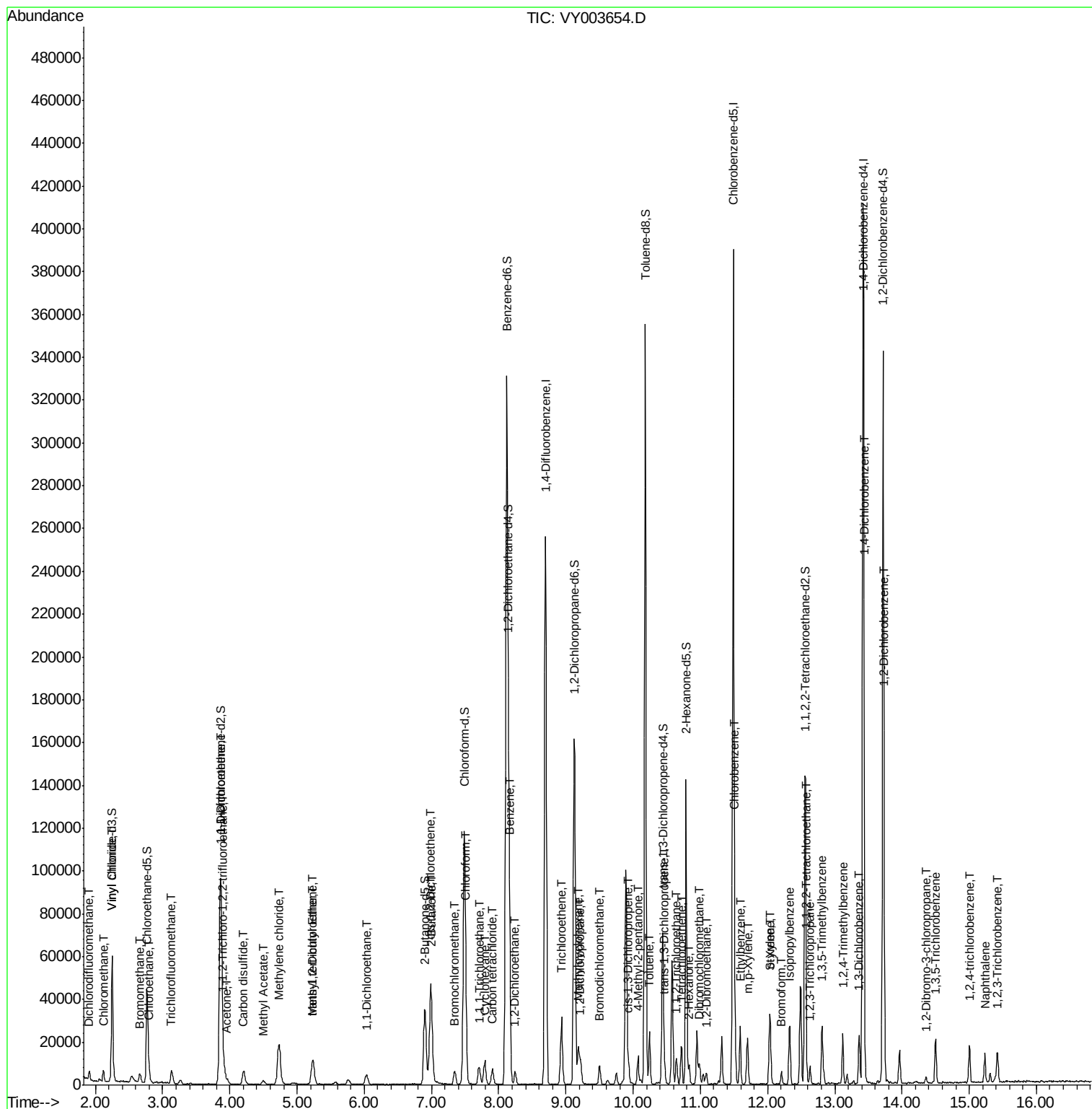
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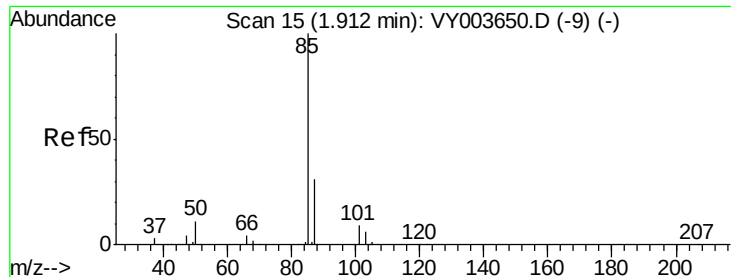
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Manual Integrations
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12/4/2020 11:27:30 AM

Quant Time: Dec 04 00:45:27 2020
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Quant Title : VOC Analysis
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.264 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Tot Ion: 85 Resp: 3271

Ion Ratio Lower Upper

85 100

87 34.3 25.4 38.2

Instrument :

MSVOA_Y

ClientSampleId :

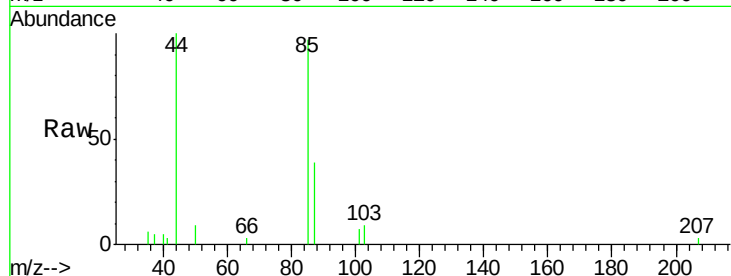
MDL-SOIL-07

Manual Integrations

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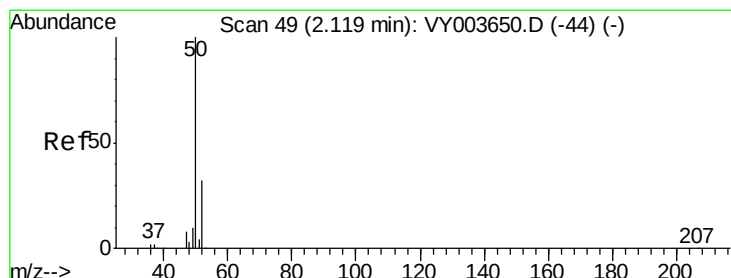
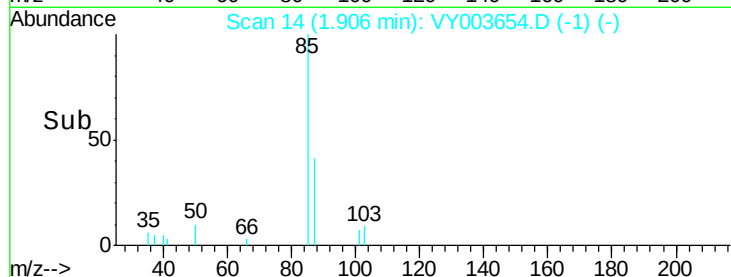
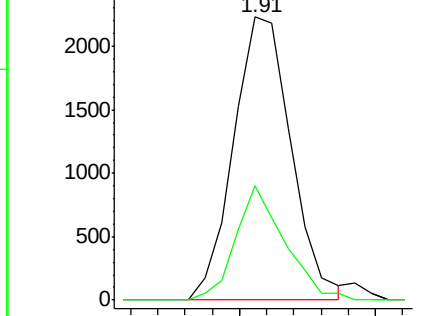
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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 1.637 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003654.D

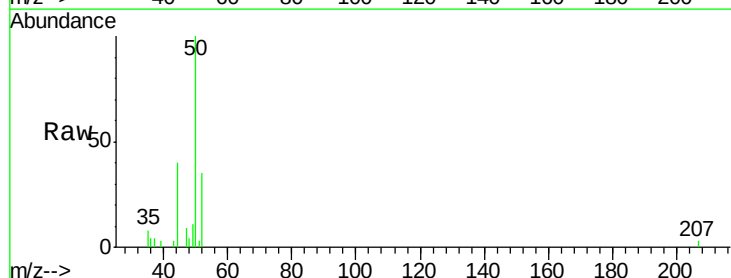
Acq: 03 Dec 2020 19:25

Tgt Ion: 50 Resp: 4595

Ion Ratio Lower Upper

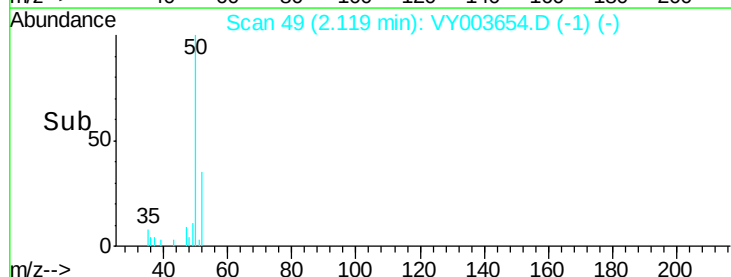
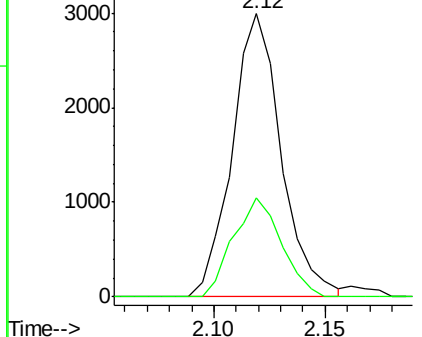
50 100

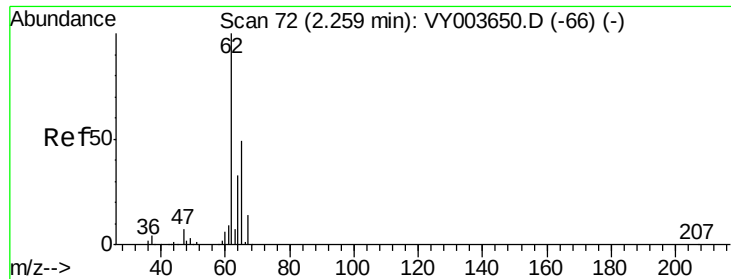
52 35.2 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 1.322 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 62 Resp: 3980

Ion Ratio Lower Upper

62 100

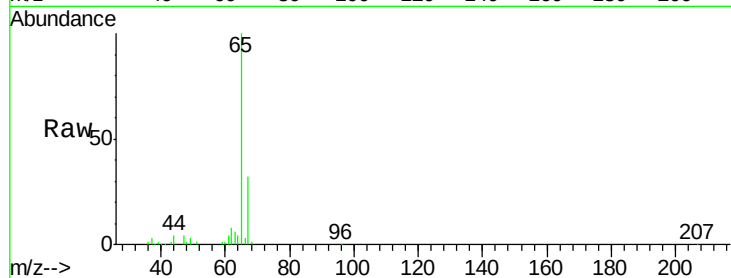
64 54.1 21.9 40.7#

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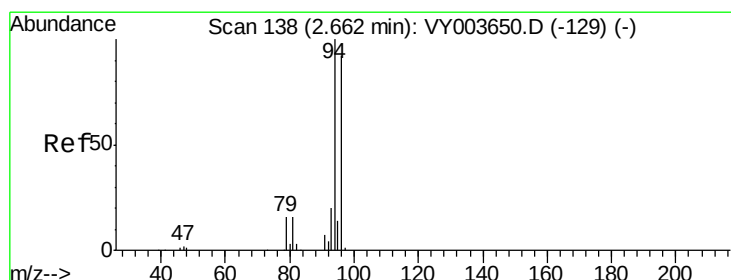
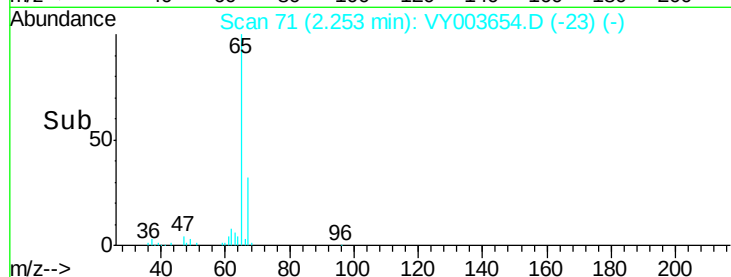
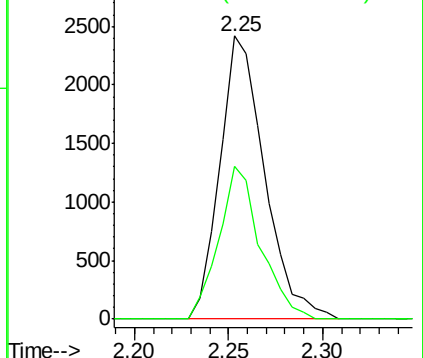
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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.316 ug/L

RT: 2.66 min Scan# 138

Delta R.T. 0.00 min

Lab File: VY003654.D

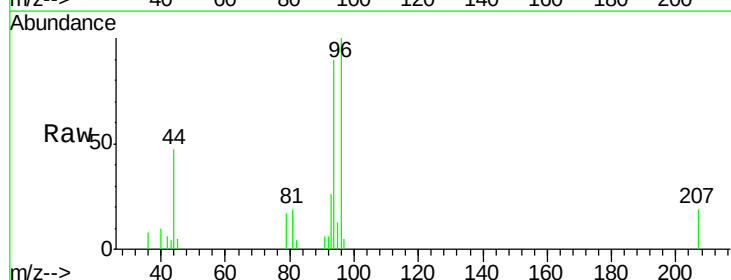
Acq: 03 Dec 2020 19:25

Tgt Ion: 94 Resp: 2481

Ion Ratio Lower Upper

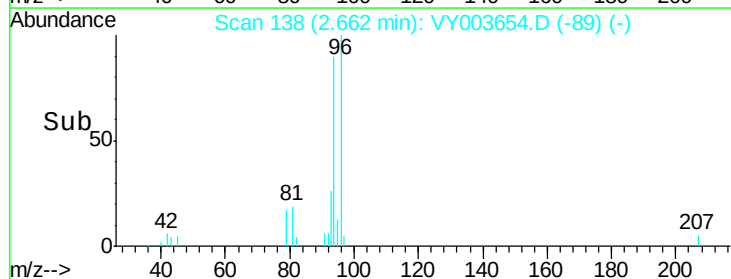
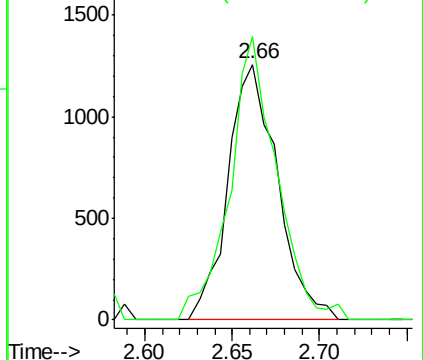
94 100

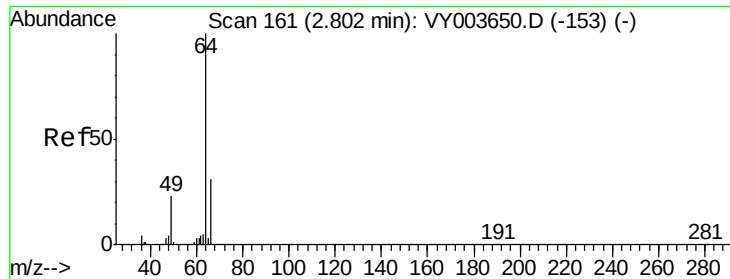
96 110.9 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





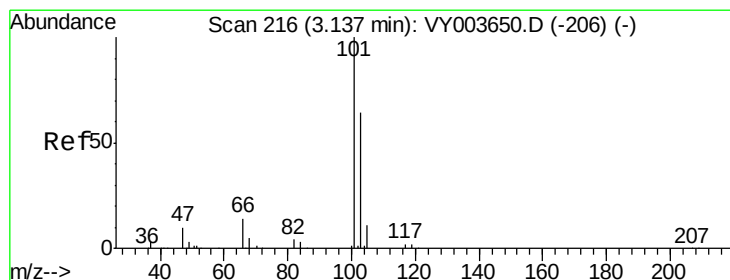
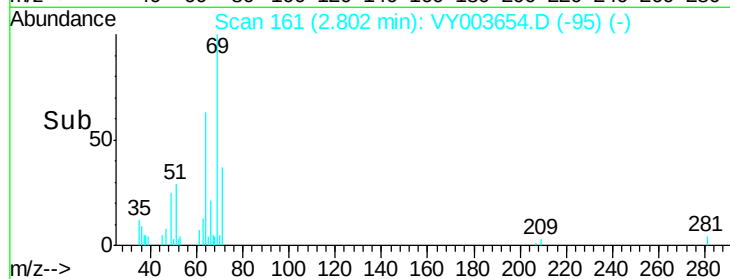
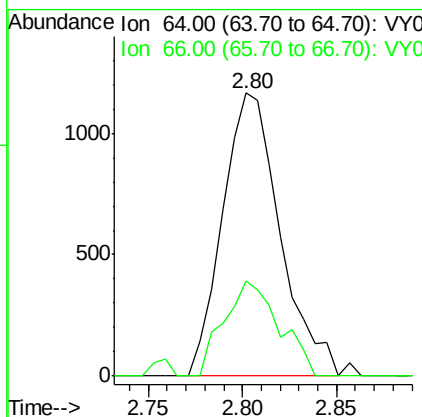
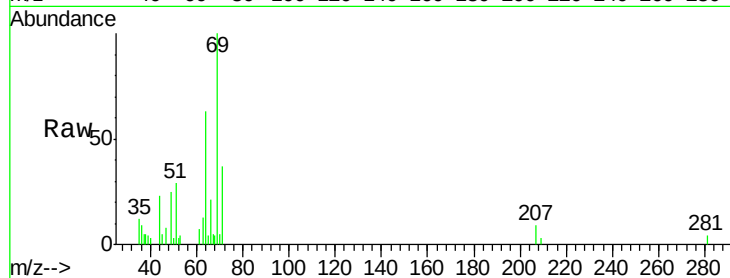
#8
Chloroethane
Concen: 1.313 ug/L
RT: 2.80 min Scan# 161
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	64	Resp	2468
Ion Ratio	Lower	Upper	
64	100		
66	33.5	22.2	41.2

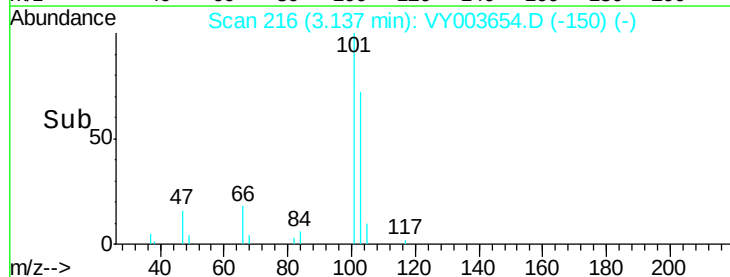
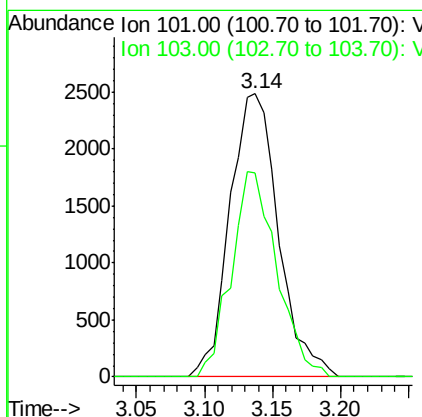
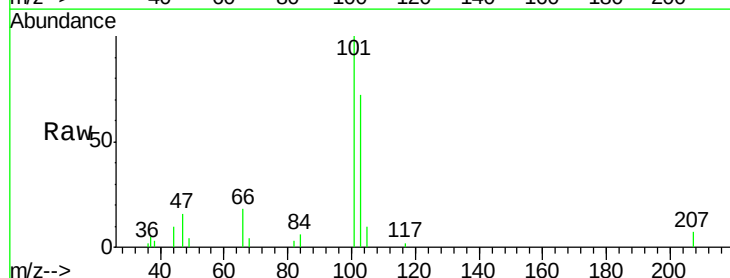
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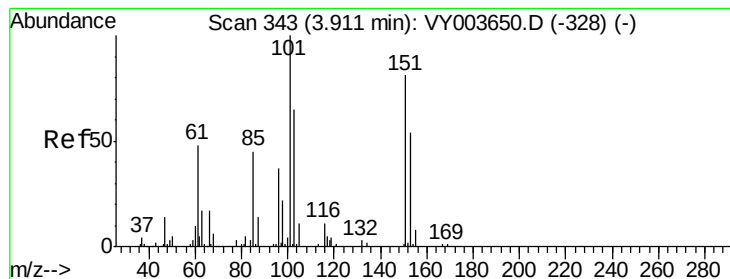
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#9
Trichlorofluoromethane
Concen: 1.357 ug/L
RT: 3.14 min Scan# 216
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	101	Resp	6201
Ion Ratio	Lower	Upper	
101	100		
103	67.9	51.9	77.9





#10

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

Concen: 1.561 ug/L

RT: 3.91 min Scan# 342

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

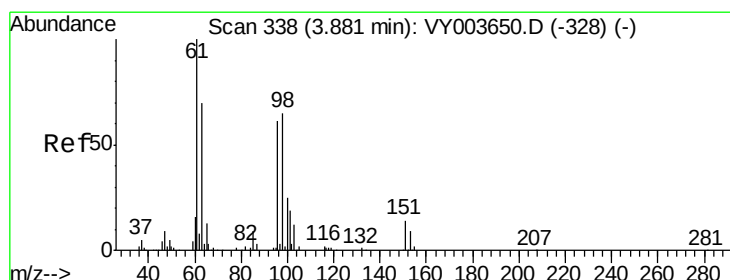
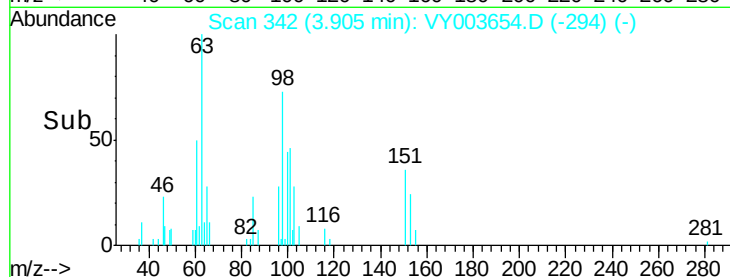
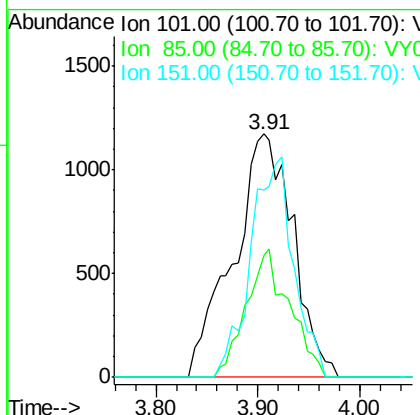
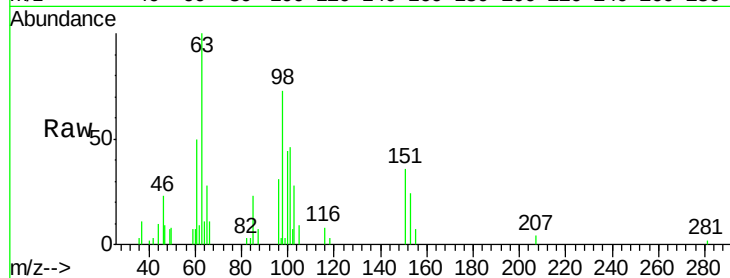
ClientSampleId :

MDL-SOIL-07

Tot Ion:	101	Resp:	4764
Ion Ratio	Lower	Upper	
101	100		
85	25.5	35.6	53.4#
151	21.2	64.2	96.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 1.515 ug/L

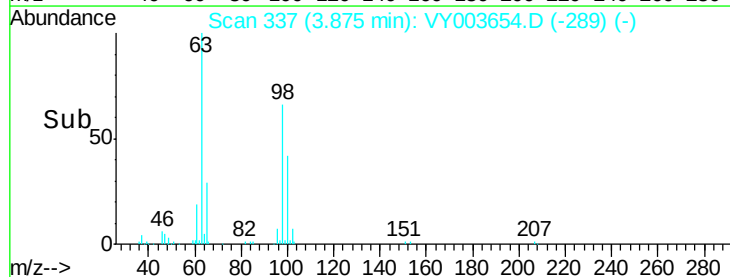
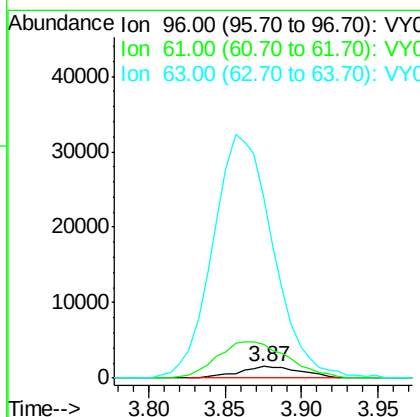
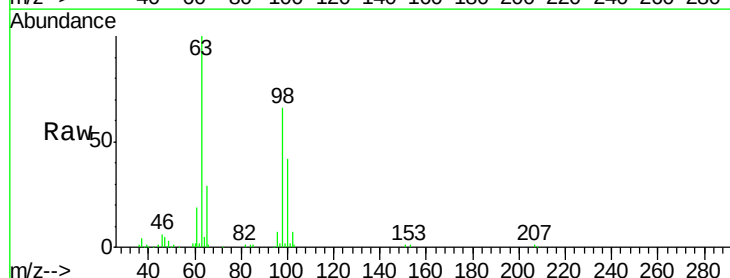
RT: 3.87 min Scan# 337

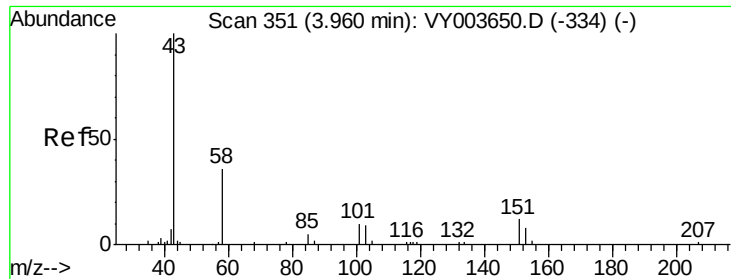
Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Tgt Ion:	96	Resp:	4391
Ion Ratio	Lower	Upper	
96	100		
61	291.4	106.1	197.1#
63	1537.2	62.9	116.9#





#13

Acetone

Concen: 3.655 ug/L m

RT: 3.95 min Scan# 350

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 43 Resp: 3276

Ion Ratio Lower Upper

43 100

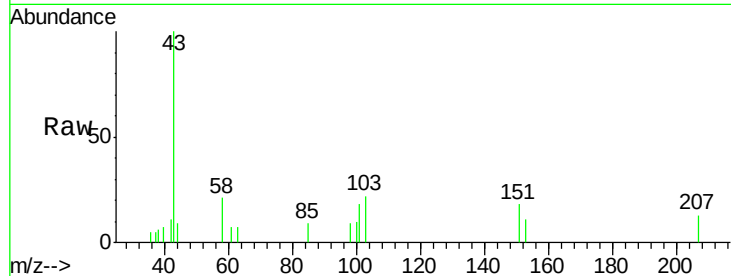
58 39.9 0.0 61.6

Manual Integrations

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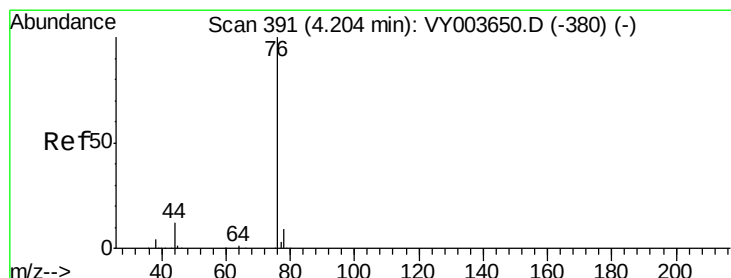
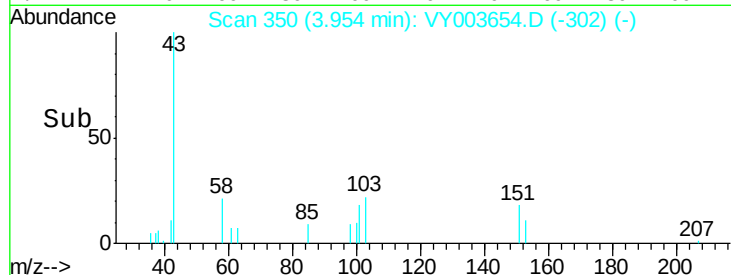
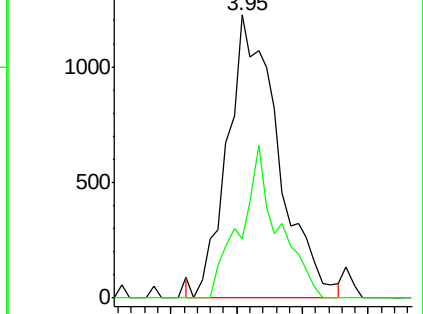
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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 1.246 ug/L

RT: 4.20 min Scan# 390

Delta R.T. -0.01 min

Lab File: VY003654.D

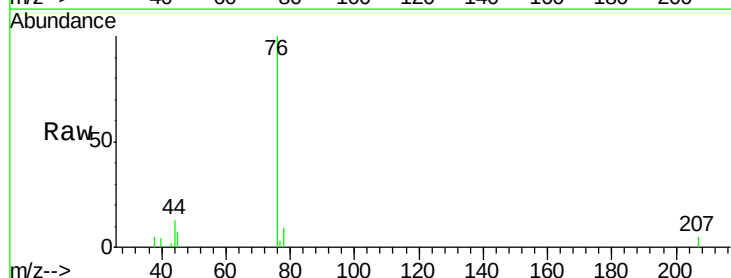
Acq: 03 Dec 2020 19:25

Tgt Ion: 76 Resp: 11927

Ion Ratio Lower Upper

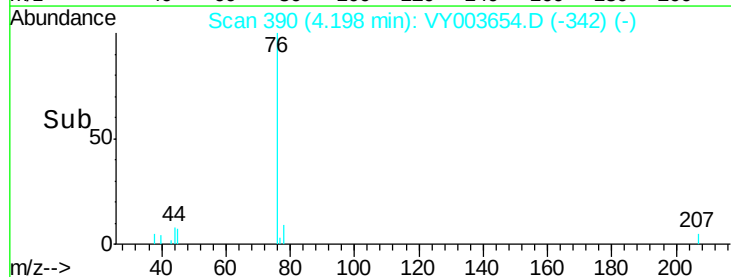
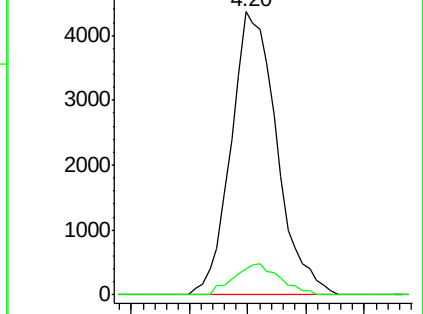
76 100

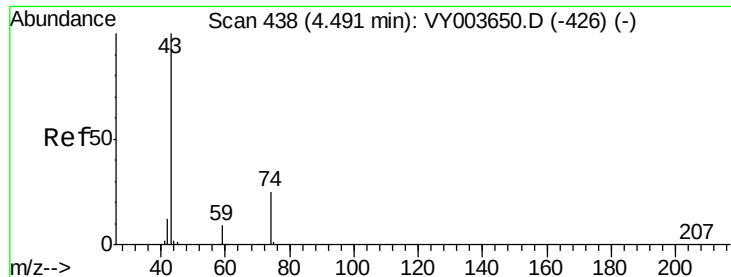
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





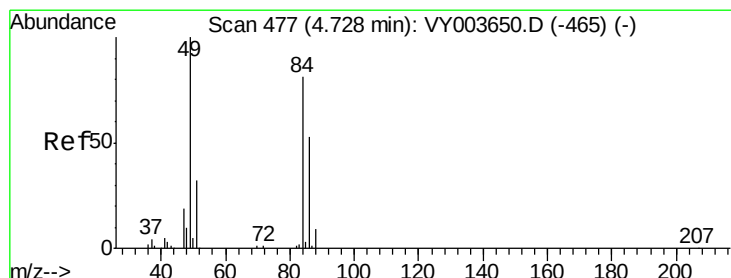
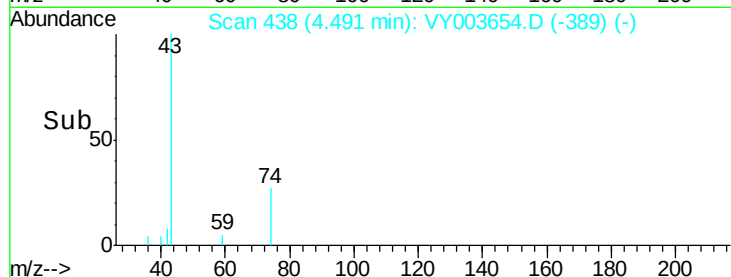
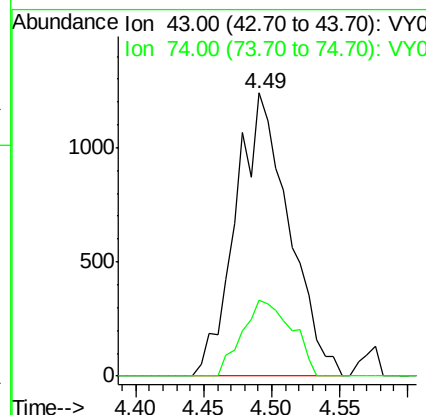
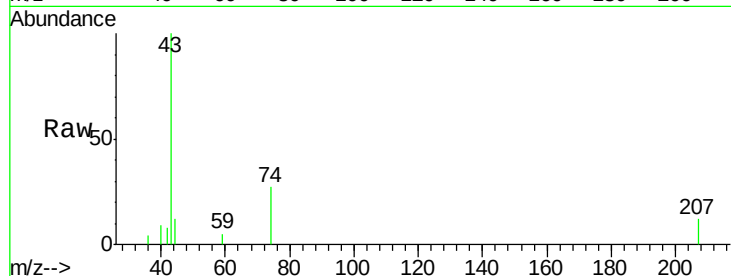
#15
Methyl Acetate
Concen: 1.574 ug/L
RT: 4.49 min Scan# 438
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion: 43 Resp: 3397
Ion Ratio Lower Upper
43 100
74 24.7 18.2 27.2

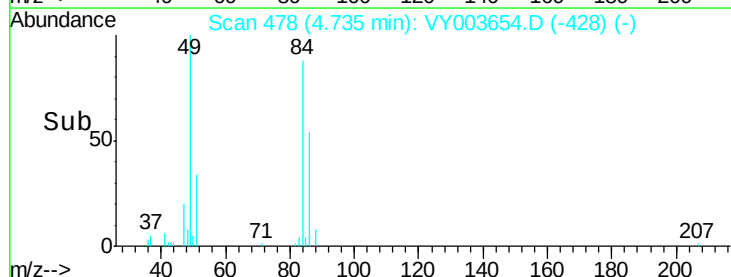
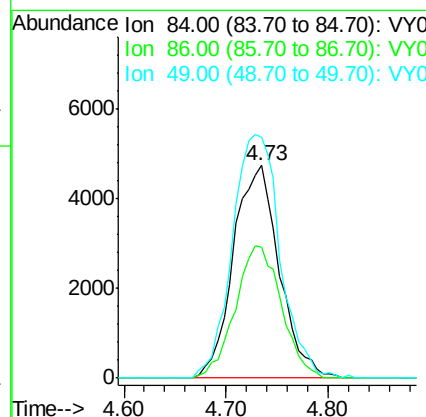
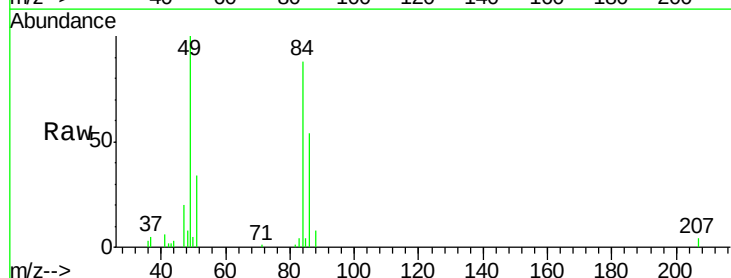
Manual Integrations
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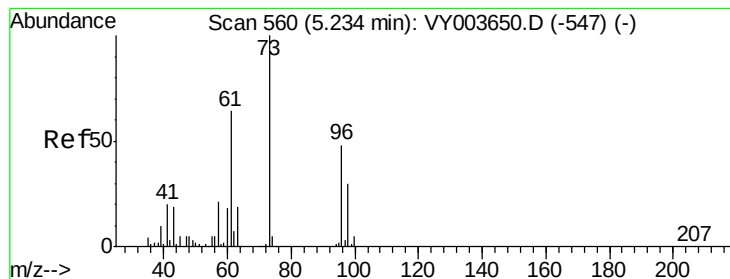
MMDadoda
12/4/2020 11:27:30 AM



#16
Methylene chloride
Concen: 3.939 ug/L
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion: 84 Resp: 14827
Ion Ratio Lower Upper
84 100
86 61.3 43.3 80.3
49 113.1 85.3 158.5





#17

trans-1,2-Dichloroethene

Concen: 1.112 ug/L

RT: 5.23 min Scan# 559

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

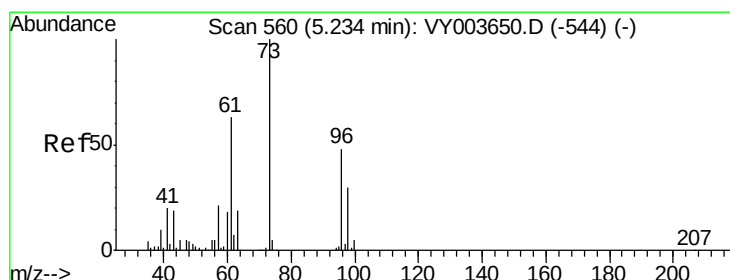
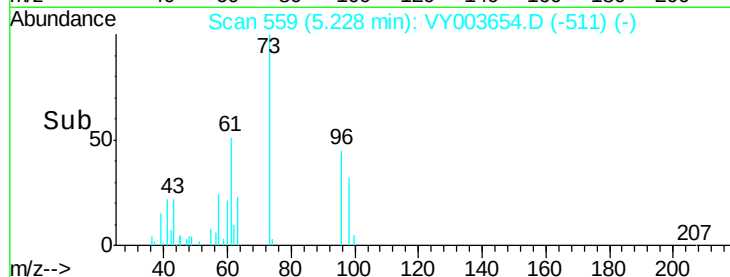
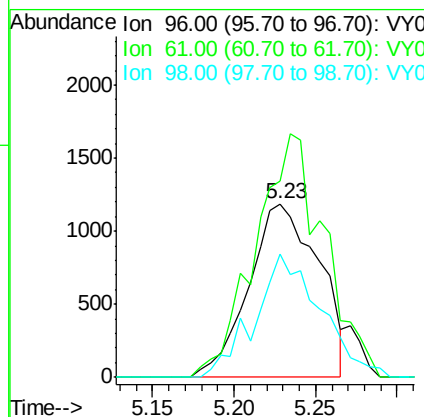
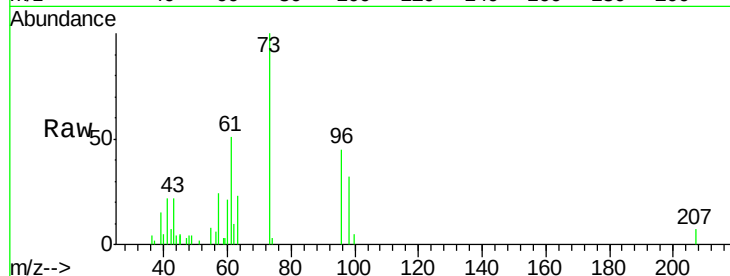
ClientSampleId :

MDL-SOIL-07

Tot Ion:	96	Resp:	3541
Ion	Ratio	Lower	Upper
96	100		
61	112.6	89.5	166.1
98	70.9	45.5	84.5

Manual Integrations
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MMDadoda
12/4/2020 11:27:30 AM



#18

Methyl tert-butyl Ether

Concen: 1.244 ug/L m

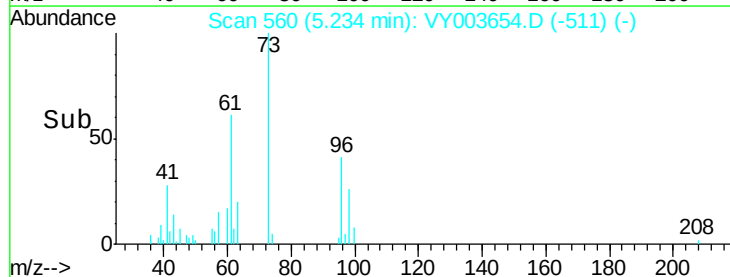
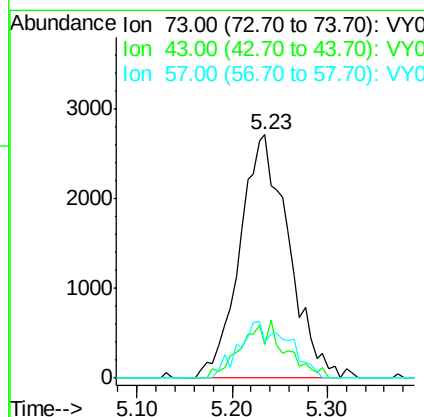
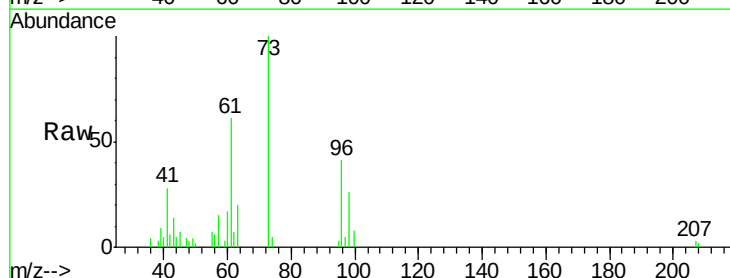
RT: 5.23 min Scan# 560

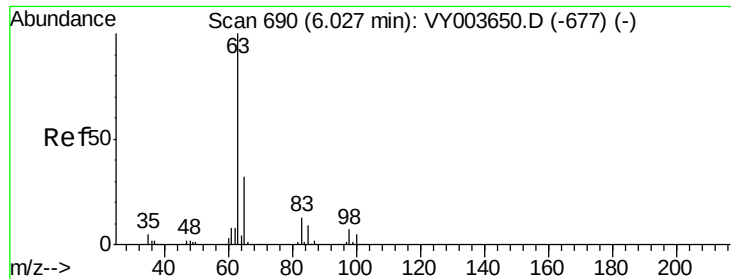
Delta R.T. 0.00 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Tgt Ion:	73	Resp:	9681
Ion	Ratio	Lower	Upper
73	100		
43	2.1	15.2	22.8#
57	1.7	18.1	27.1#





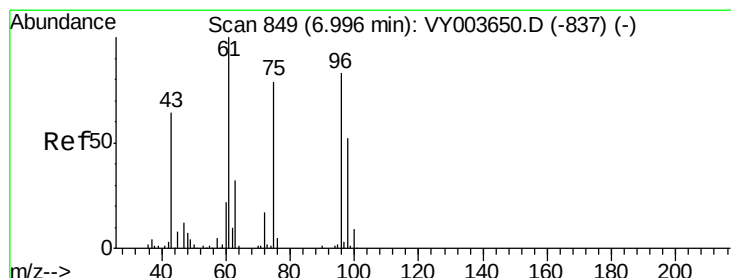
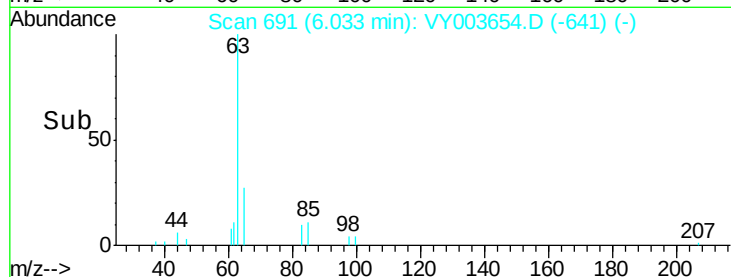
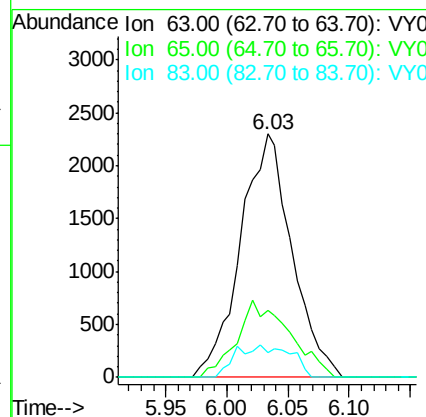
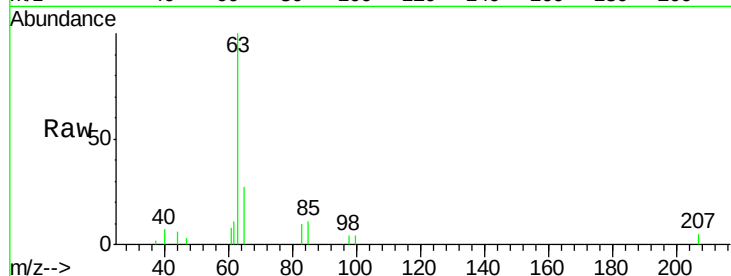
#19
 1,1-Dichloroethane
 Concen: 1.253 ug/L
 RT: 6.03 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
63	100		
65	27.3	21.9	40.7
83	10.0	9.5	17.7

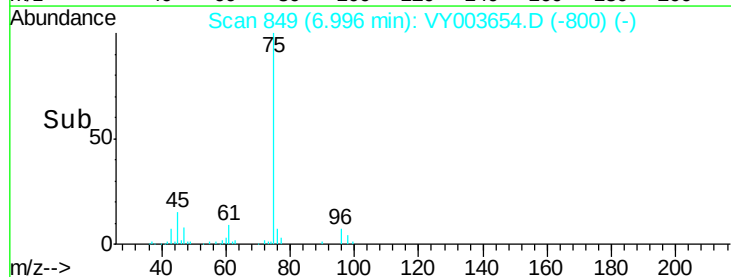
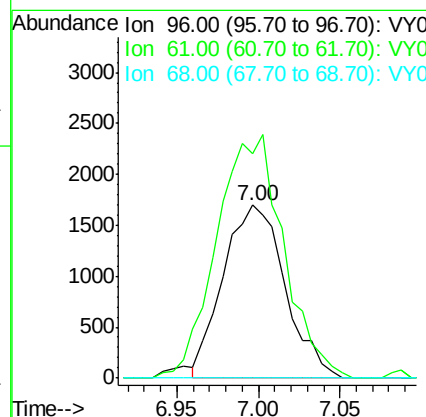
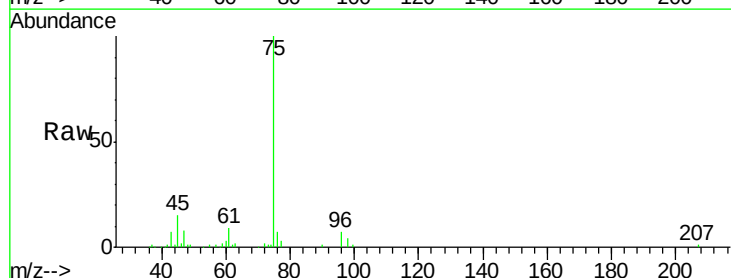
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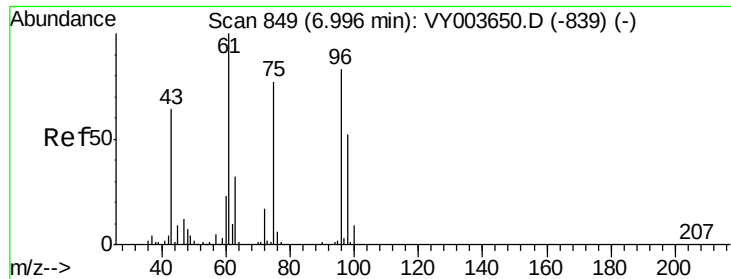
MMDadoda
 12/4/2020 11:27:30 AM



#20
 cis-1,2-Dichloroethene
 Concen: 1.343 ug/L
 RT: 7.00 min Scan# 849
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.8	85.8	159.4
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.646 ug/L

RT: 7.00 min Scan# 850

Delta R.T. 0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 43 Resp: 5495

Ion Ratio Lower Upper

43 100

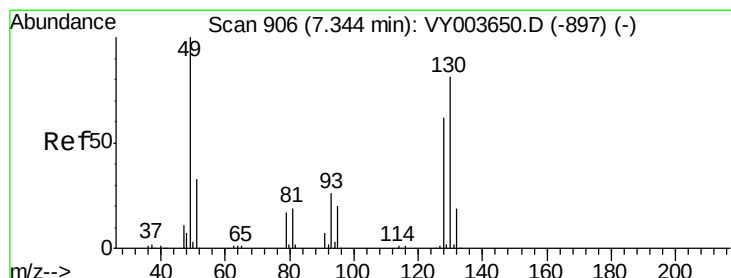
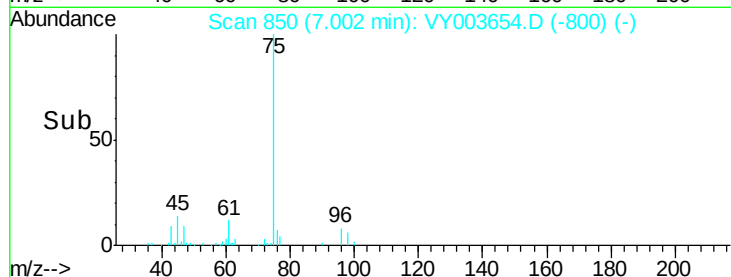
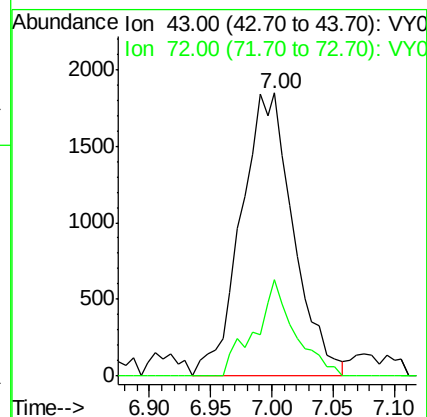
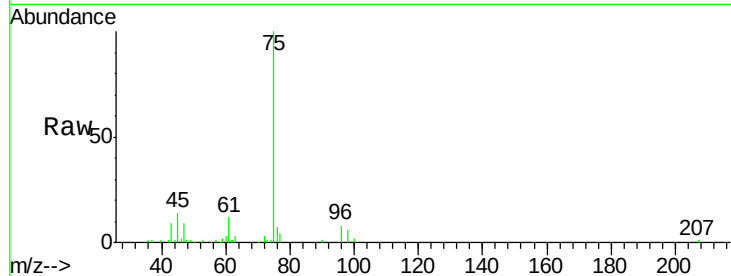
72 26.1 13.5 40.5

Manual Integrations

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MMDadoda

12/4/2020 11:27:30 AM



#23

Bromochloromethane

Concen: 1.317 ug/L

RT: 7.34 min Scan# 905

Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Tgt Ion: 128 Resp: 2145

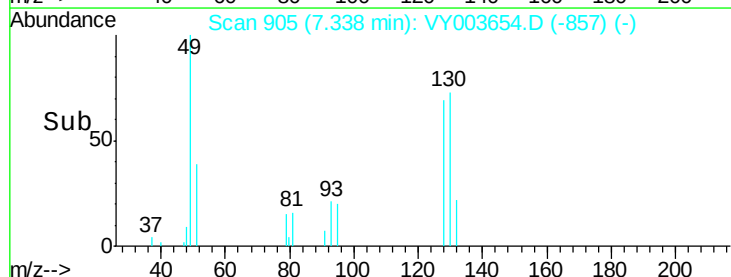
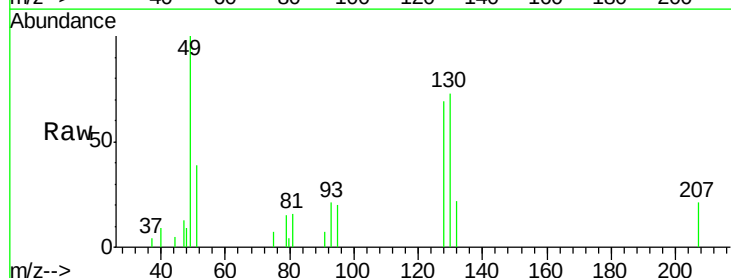
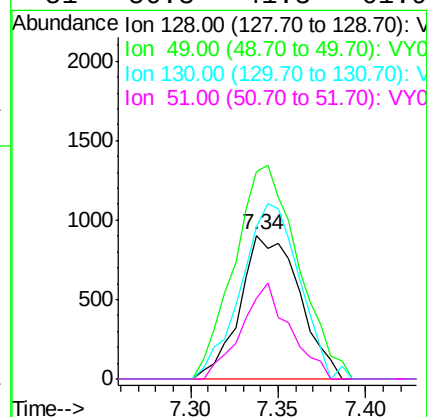
Ion Ratio Lower Upper

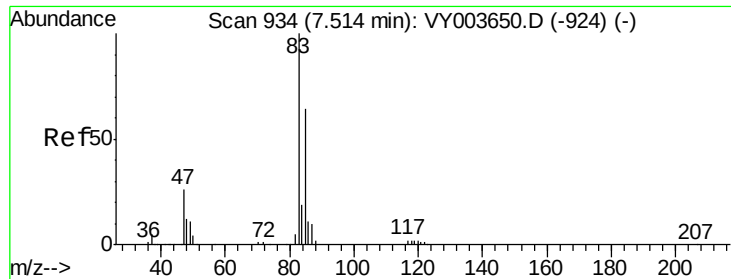
128 100

49 144.0 118.1 219.3

130 105.8 90.5 168.1

51 56.3 41.3 61.9





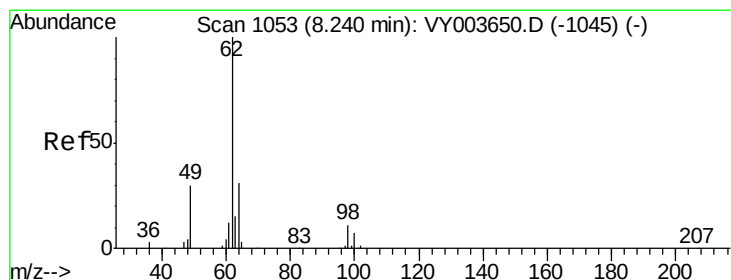
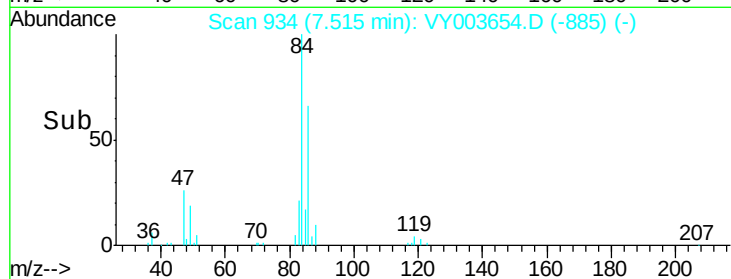
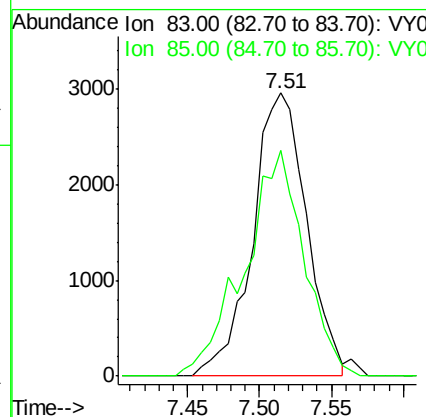
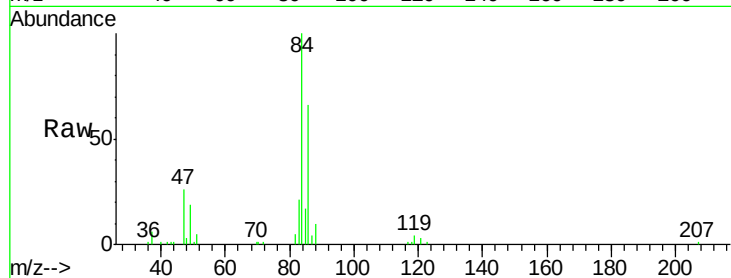
#25
Chloroform
Concen: 1.430 ug/L
RT: 7.51 min Scan# 934
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	83	Resp	7679
Ion Ratio	100	Lower	Upper
85	79.9	44.4	82.4

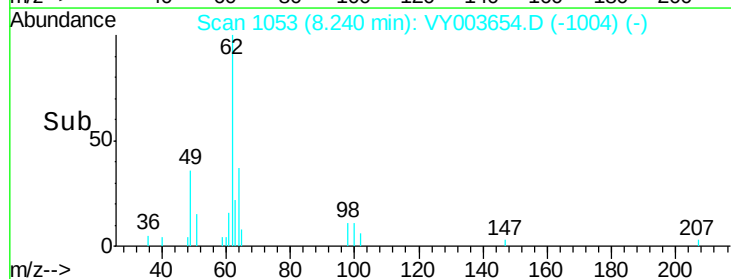
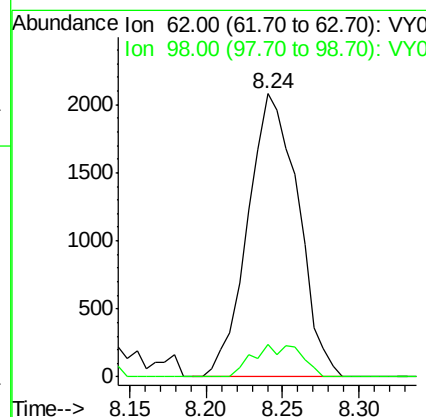
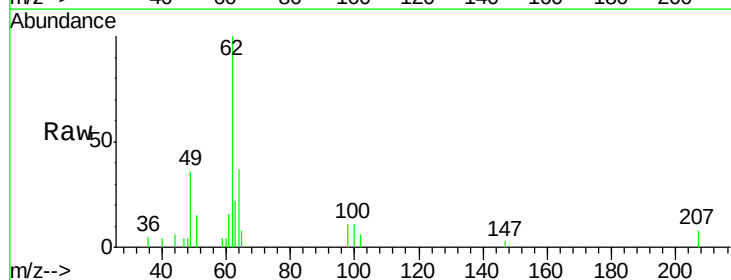
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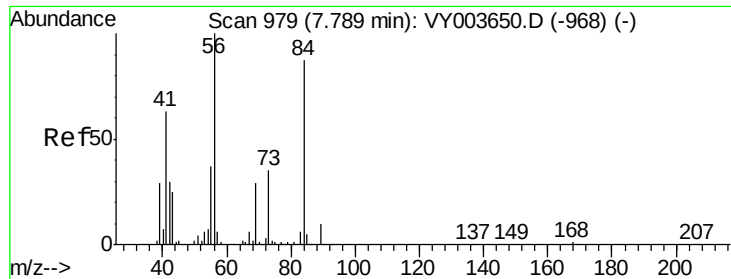
MMDadoda
12/4/2020 11:27:30 AM



#27
1,2-Dichloroethane
Concen: 1.347 ug/L
RT: 8.24 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	62	Resp	4759
Ion Ratio	100	Lower	Upper
98	11.3	7.5	11.3#





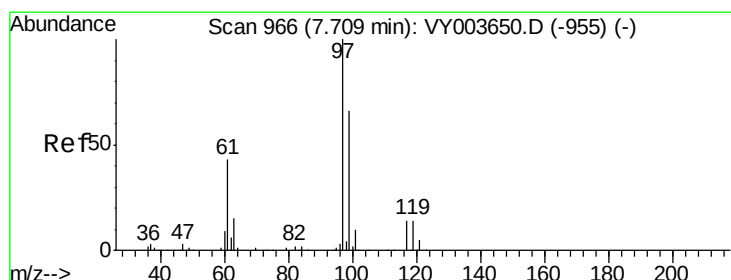
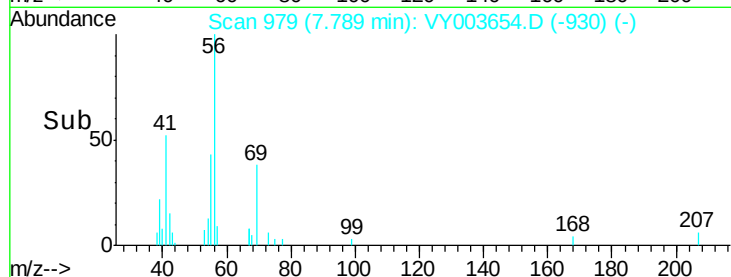
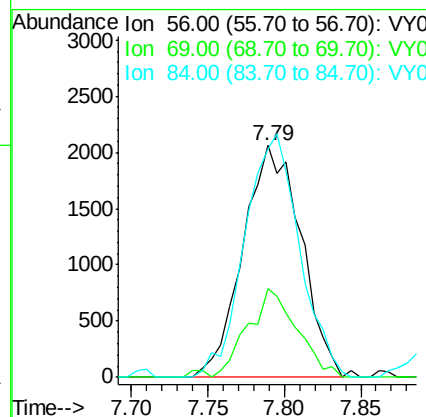
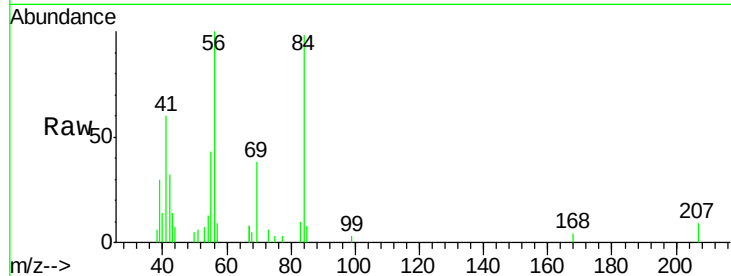
#29
Cyclohexane
Concen: 1.074 ug/L
RT: 7.79 min Scan# 979
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	56	Resp	5445
Ion	Ratio	Lower	Upper
56	100		
69	32.3	23.9	35.9
84	99.0	71.9	107.9

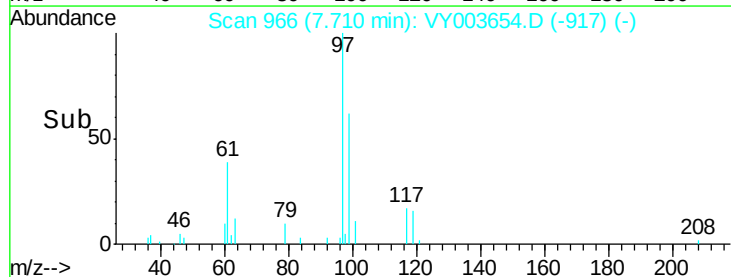
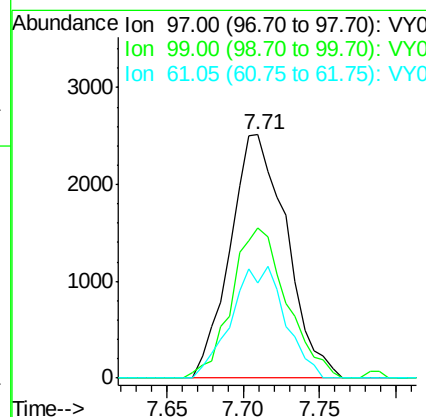
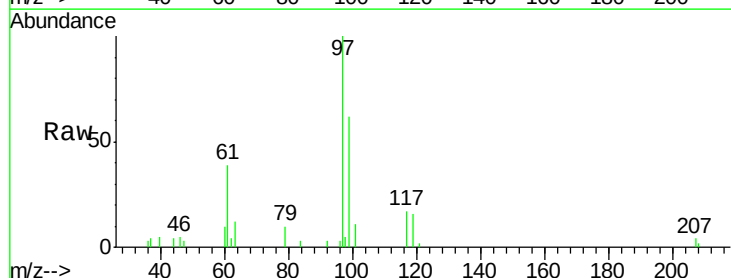
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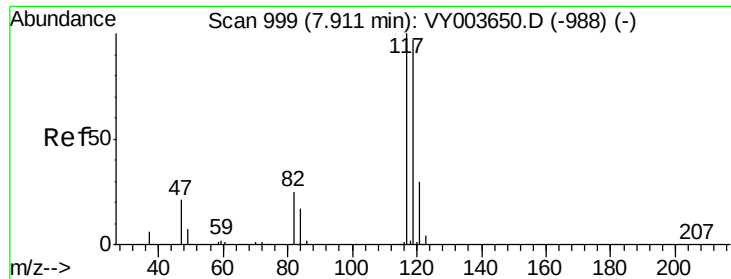
MMDadoda
12/4/2020 11:27:30 AM



#30
1,1,1-Trichloroethane
Concen: 1.329 ug/L
RT: 7.71 min Scan# 966
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	97	Resp	6469
Ion	Ratio	Lower	Upper
97	100		
99	59.9	50.6	76.0
61	24.5	34.3	51.5#





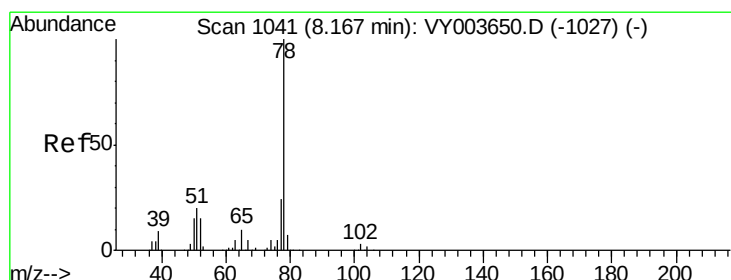
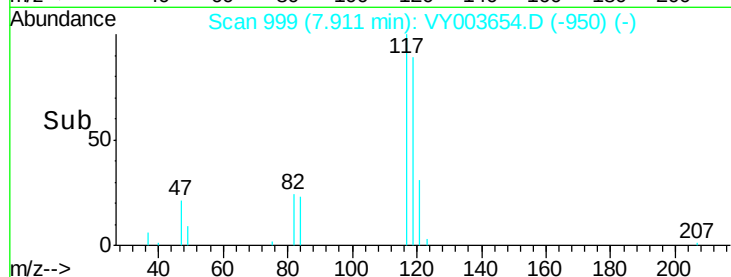
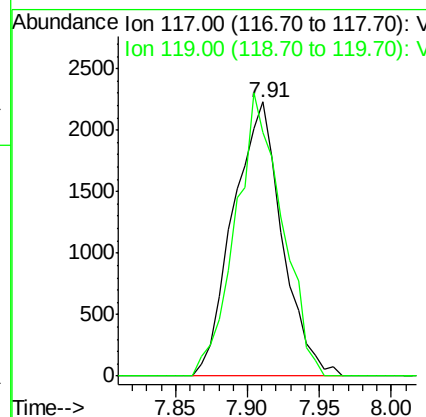
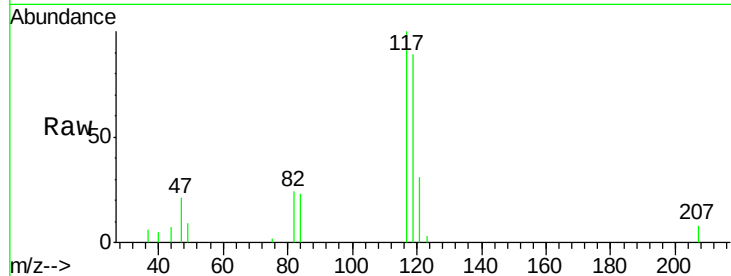
#31
Carbon tetrachloride
Concen: 1.205 ug/L
RT: 7.91 min Scan# 999
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion:117 Resp: 5296
Ion Ratio Lower Upper
117 100
119 97.8 77.7 116.5

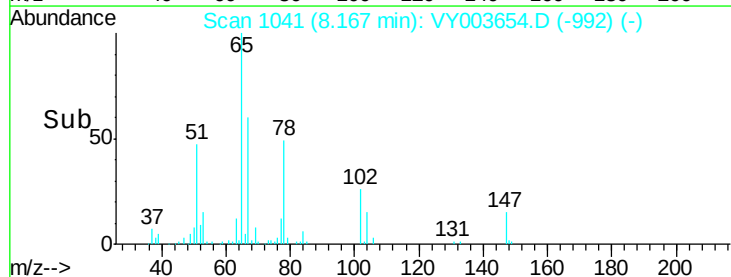
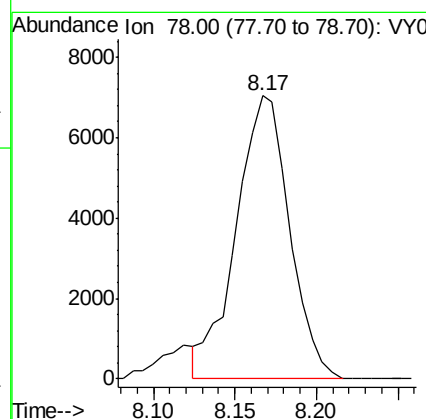
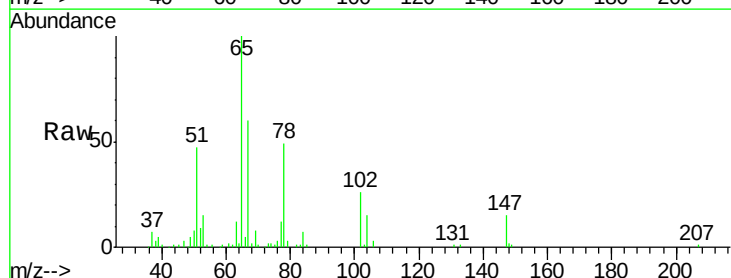
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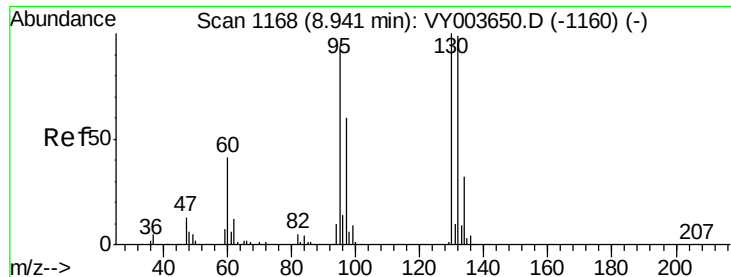
MMDadoda
12/4/2020 11:27:30 AM



#33
Benzene
Concen: 1.226 ug/L
RT: 8.17 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion: 78 Resp: 16002





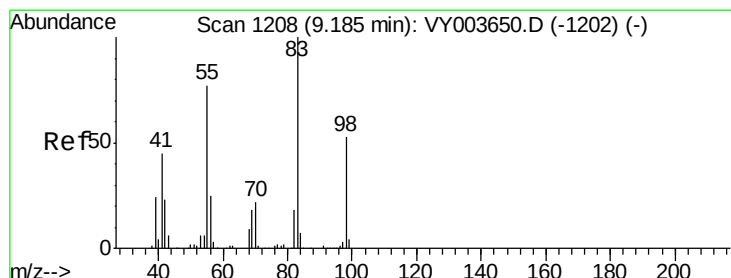
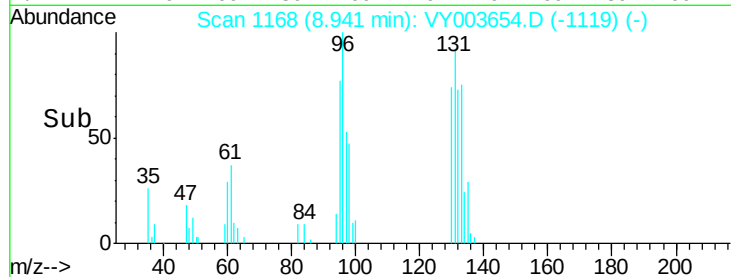
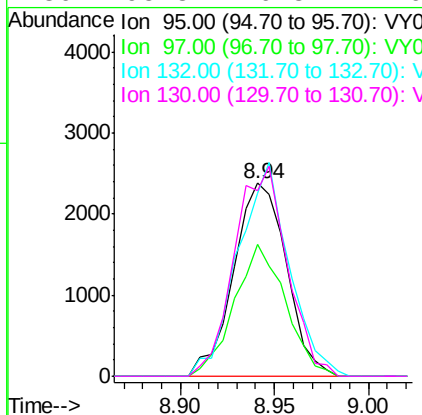
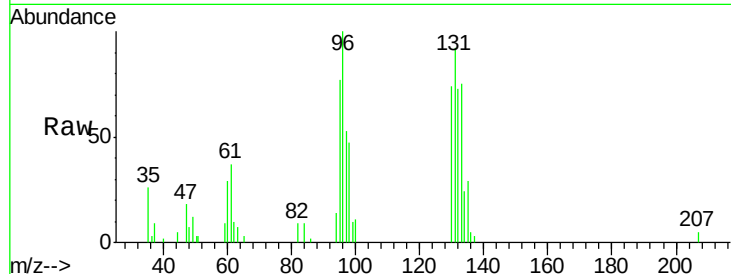
#34
 Trichloroethene
 Concen: 1.424 ug/L
 RT: 8.94 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		4638		
97	68.3	44.7	83.1		
132	94.6	74.7	138.7		
130	95.8	76.8	142.6		

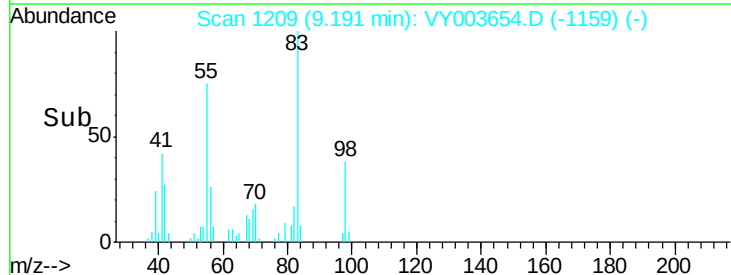
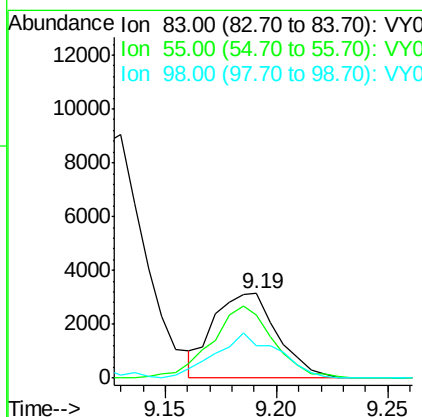
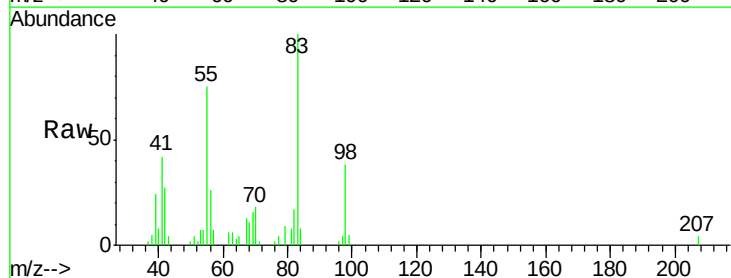
Manual Integrations
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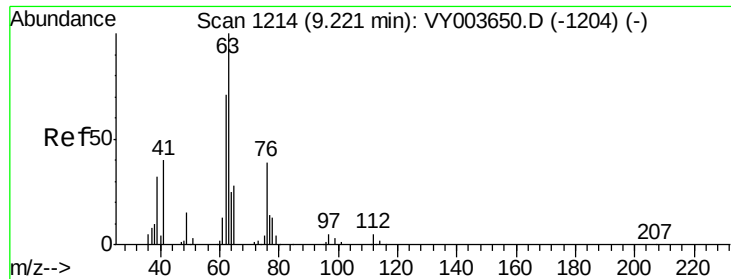
MMDadoda
 12/4/2020 11:27:30 AM



#35
 Methylcyclohexane
 Concen: 1.128 ug/L
 RT: 9.19 min Scan# 1209
 Delta R.T. 0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		6285		
55	82.0	58.3	87.5		
98	52.5	39.0	58.6		





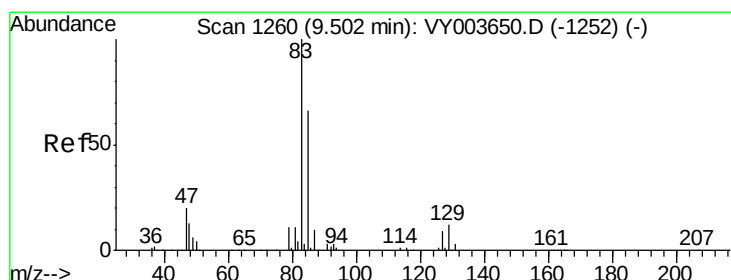
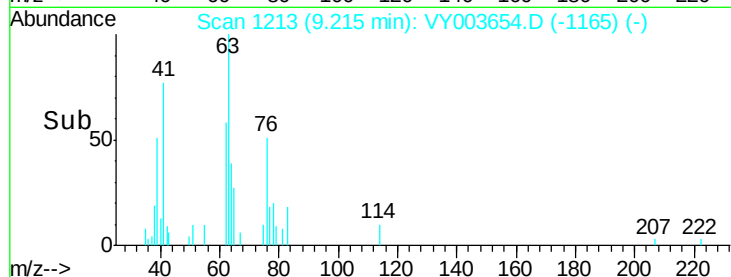
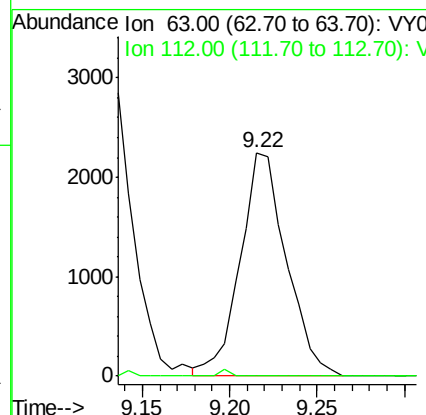
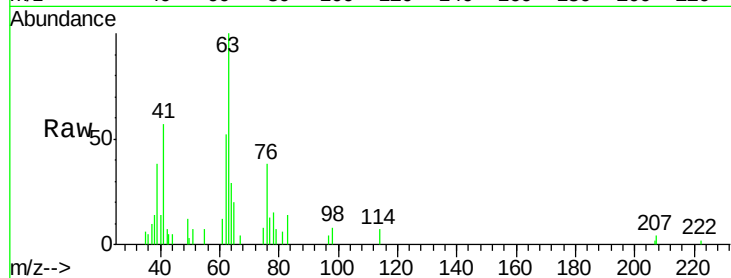
#37
 1,2-Dichloropropane
 Concen: 1.252 ug/L
 RT: 9.22 min Scan# 1213
 Delta R.T. -0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion: 63 Resp: 4148
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.7 5.5#

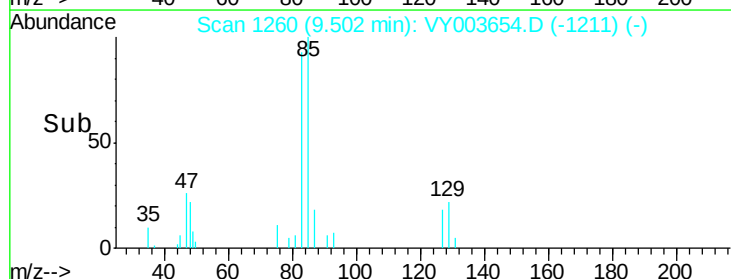
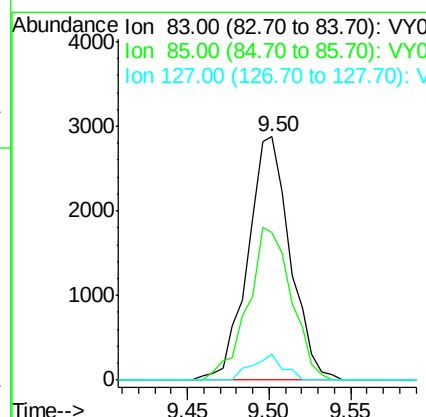
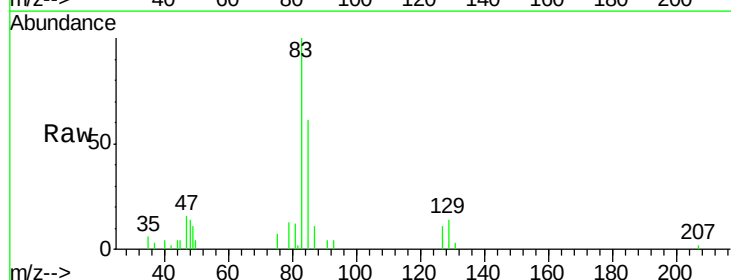
Manual Integrations
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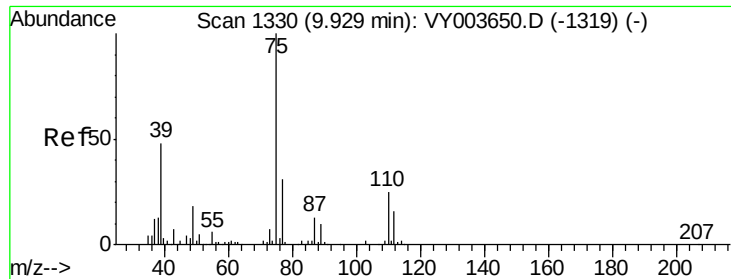
MMDadoda
 12/4/2020 11:27:30 AM



#38
 Bromodichloromethane
 Concen: 1.252 ug/L
 RT: 9.50 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion: 83 Resp: 5220
 Ion Ratio Lower Upper
 83 100
 85 60.6 43.1 80.1
 127 10.8 7.1 10.7#





#39

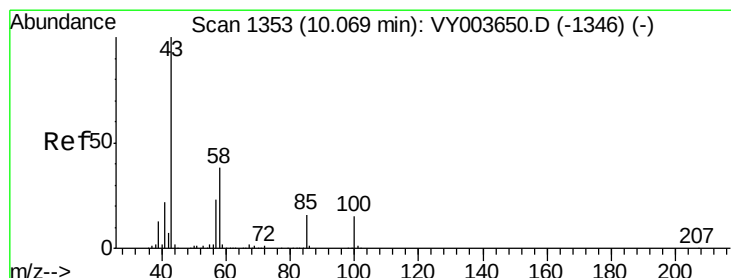
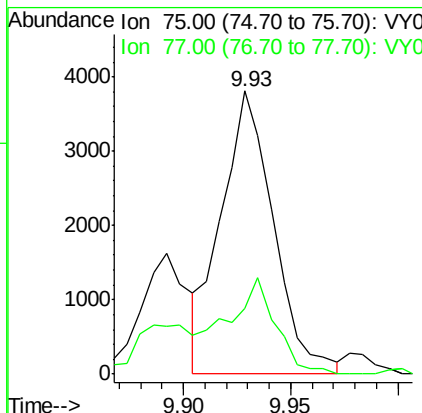
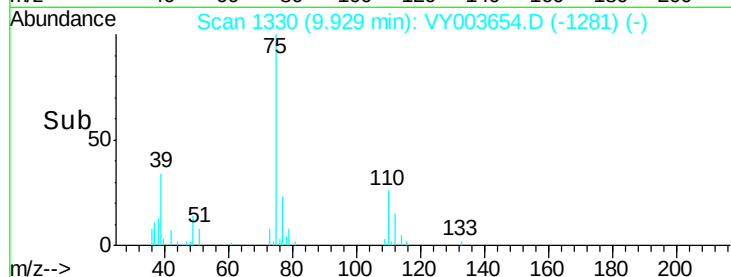
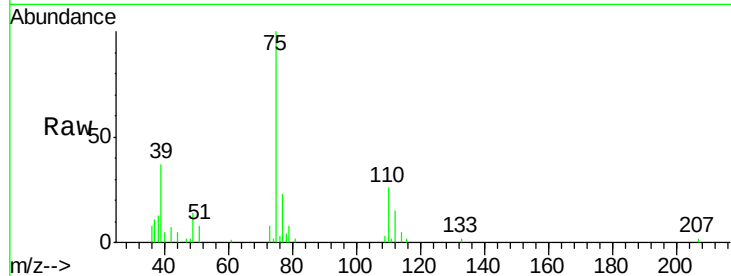
cis-1,3-Dichloropropene
Concen: 1.266 ug/L m
RT: 9.93 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion: 75 Resp: 6477
Ion Ratio Lower Upper
75 100
77 23.2 23.5 43.7#

Manual Integrations
APPROVED

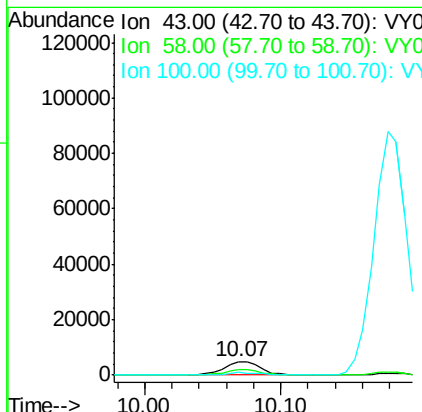
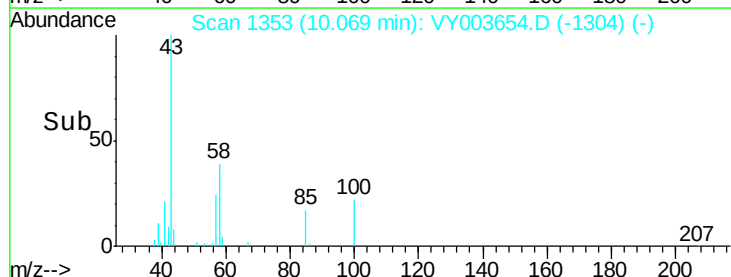
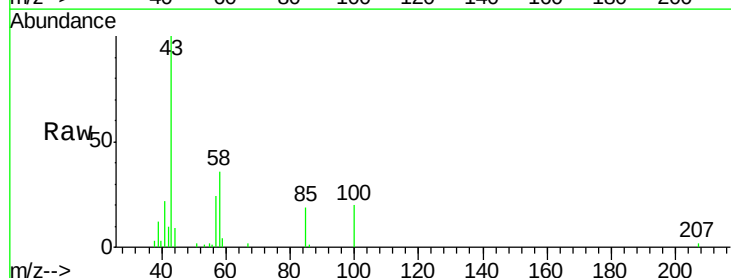
MMDadoda
12/4/2020 11:27:30 AM

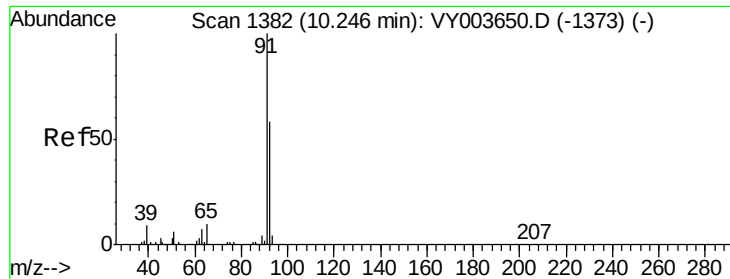


#40

4-Methyl-2-pentanone
Concen: 3.123 ug/L
RT: 10.07 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion: 43 Resp: 9083
Ion Ratio Lower Upper
43 100
58 36.0 30.7 46.1
100 16.9 12.1 18.1





#42

Toluene

Concen: 1.274 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 91 Resp: 17459

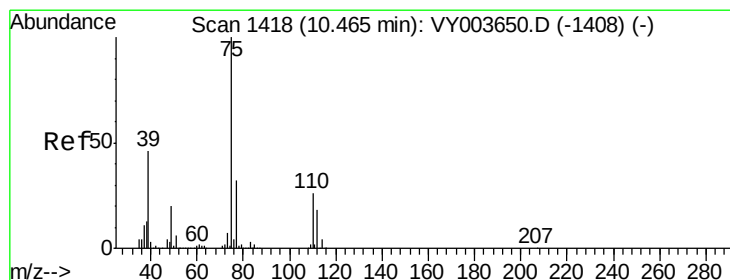
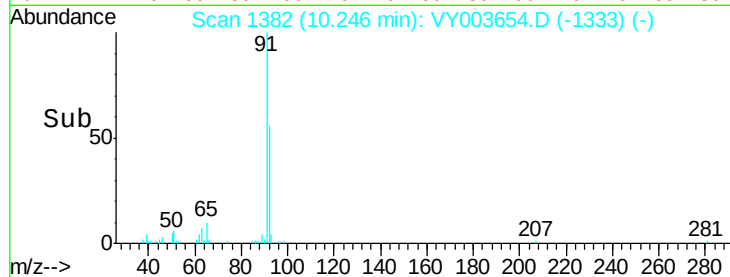
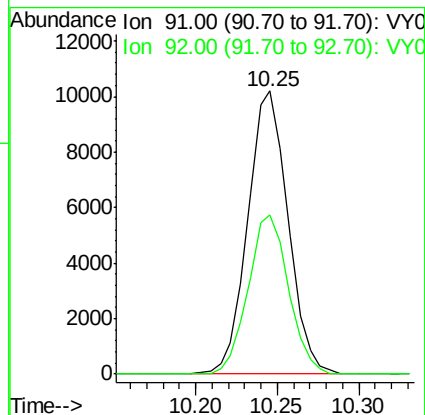
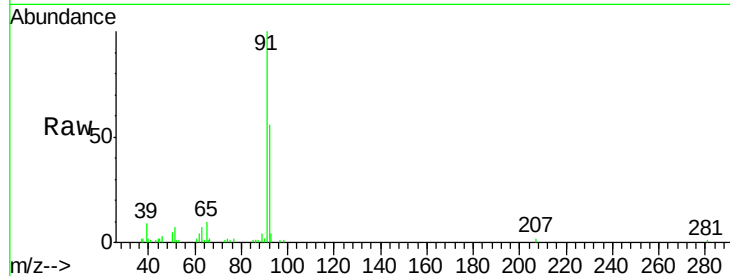
Ion Ratio Lower Upper

91 100

92 56.4 40.1 74.5

Manual Integrations
APPROVED

MMDadoda
12/4/2020 11:27:30 AM



#44

trans-1,3-Dichloropropene

Concen: 1.630 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003654.D

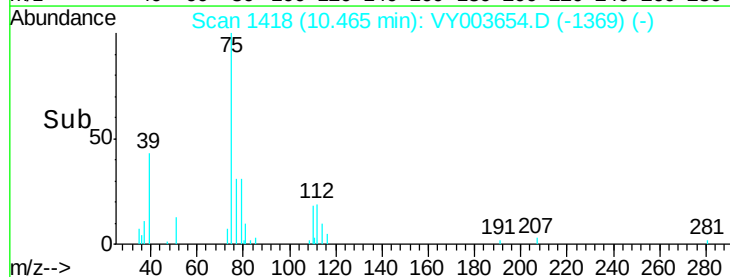
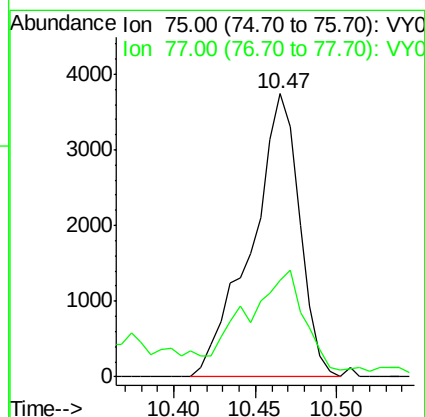
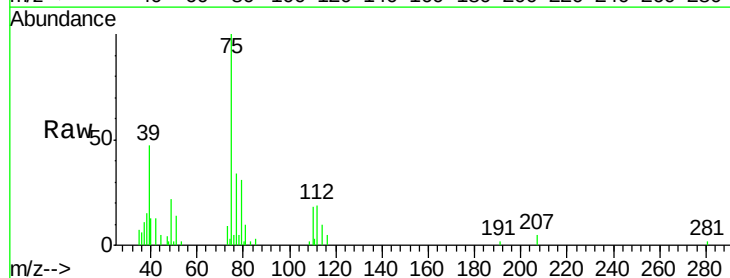
Acq: 03 Dec 2020 19:25

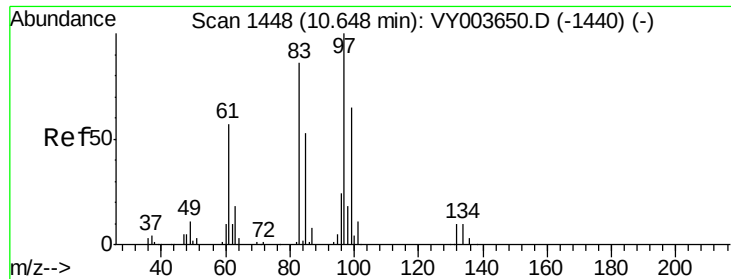
Tgt Ion: 75 Resp: 7701

Ion Ratio Lower Upper

75 100

77 33.9 22.9 42.5





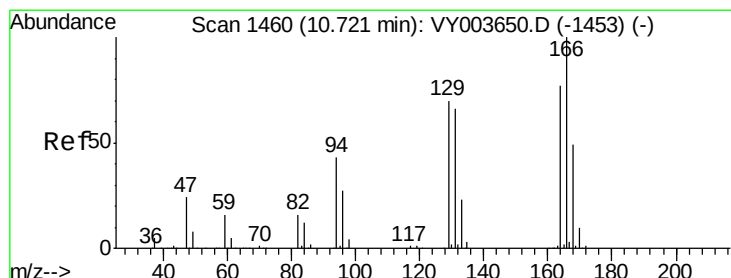
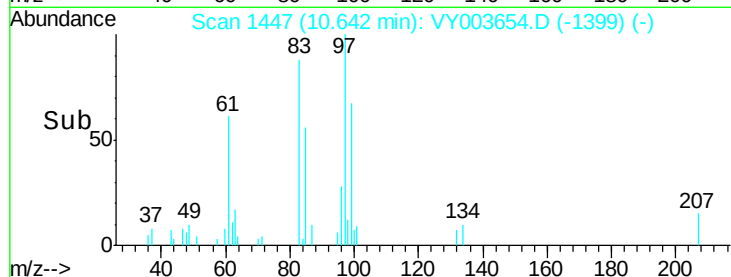
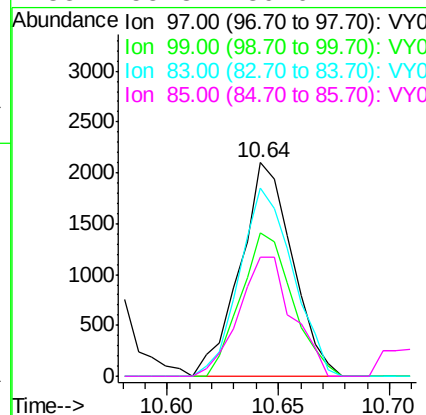
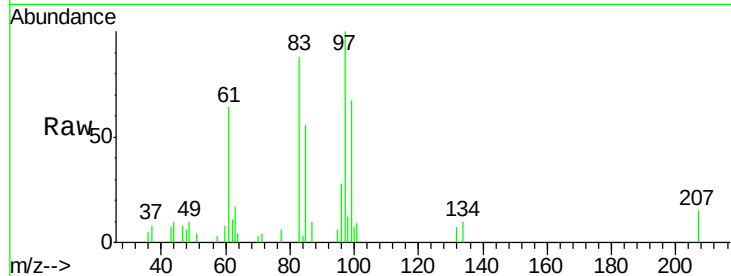
#45
 1,1,2-Trichloroethane
 Concen: 1.237 ug/L
 RT: 10.64 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:	97	Resp:	3441
Ion	Ratio	Lower	Upper
97	100		
99	67.4	45.1	83.9
83	87.9	59.7	110.9
85	55.8	39.0	72.4

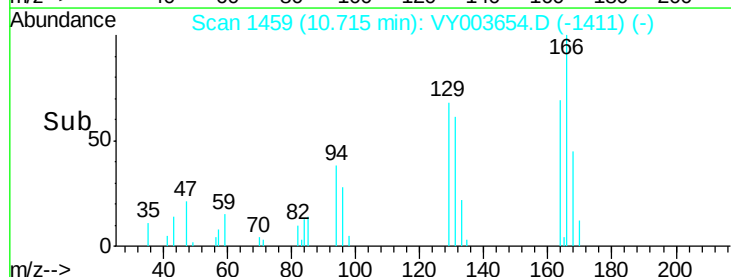
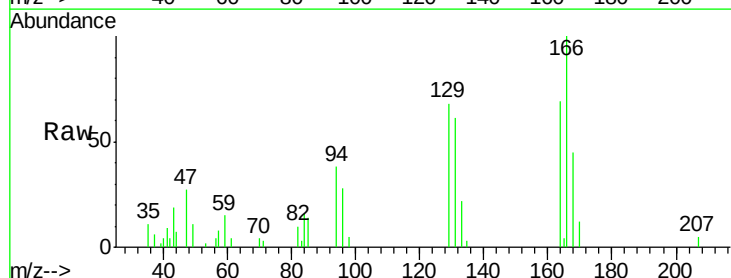
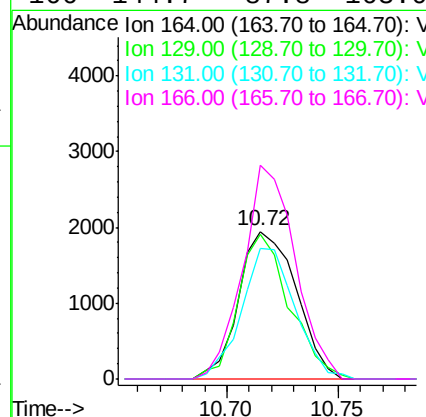
Manual Integrations
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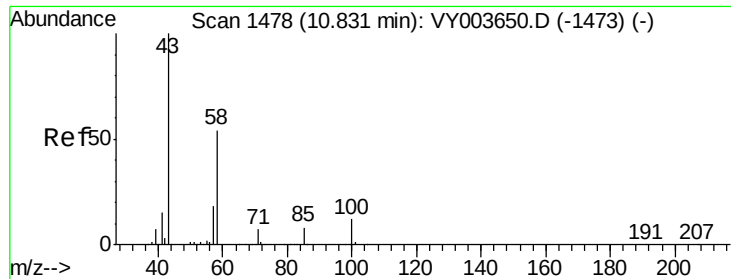
MMDadoda
 12/4/2020 11:27:30 AM



#46
 Tetrachloroethene
 Concen: 1.257 ug/L
 RT: 10.72 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion:	164	Resp:	3505
Ion	Ratio	Lower	Upper
164	100		
129	98.3	58.9	109.5
131	88.2	59.0	109.6
166	144.7	87.8	163.0





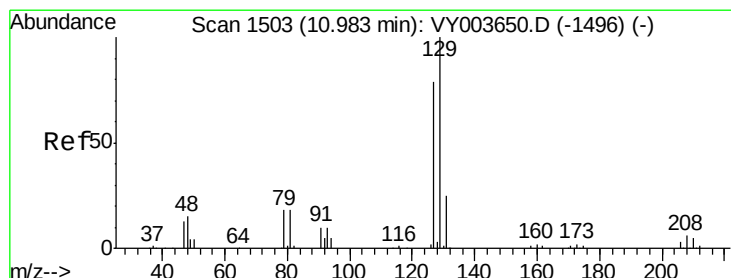
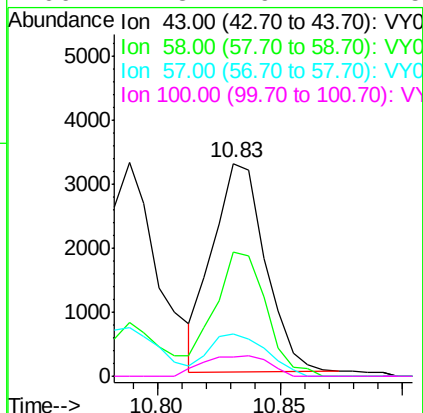
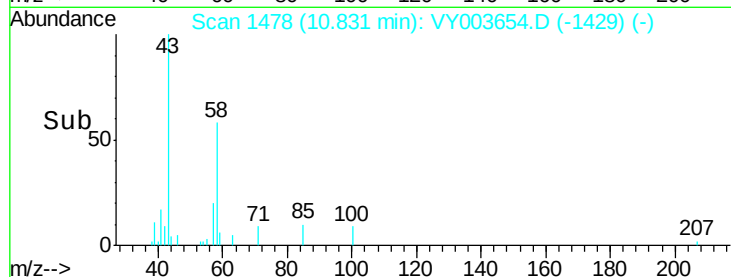
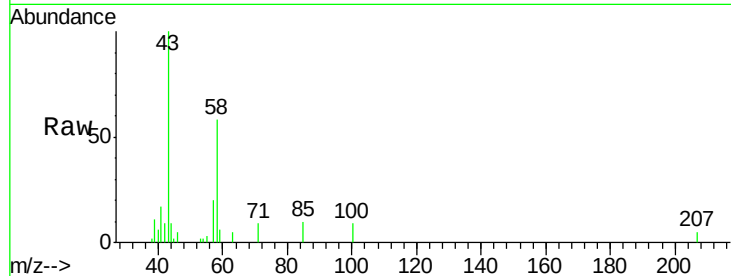
#48
2-Hexanone
Concen: 2.292 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.2	43.0	64.6
57	22.2	14.6	21.8
100	12.3	9.7	14.5

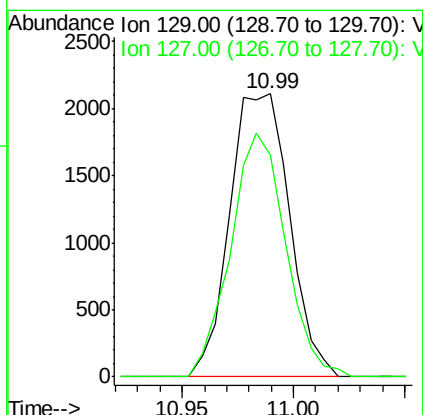
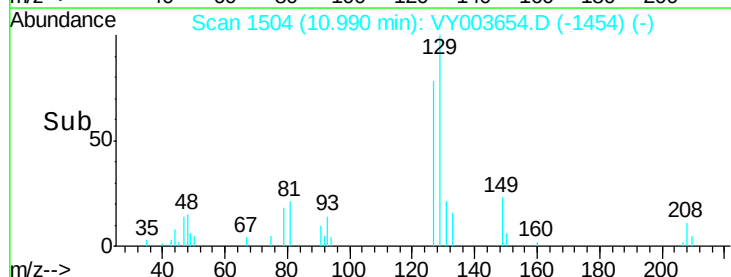
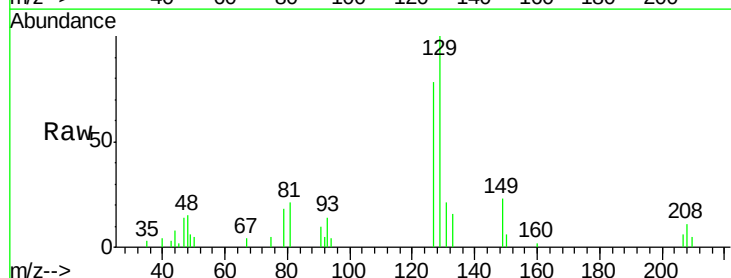
Manual Integrations
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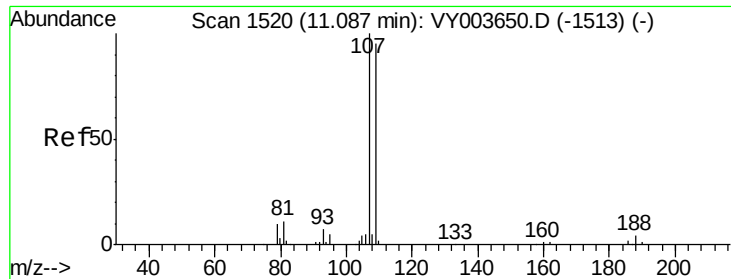
MMDadoda
12/4/2020 11:27:30 AM



#49
Dibromochloromethane
Concen: 1.229 ug/L
RT: 10.99 min Scan# 1504
Delta R.T. 0.01 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	55.0	102.2





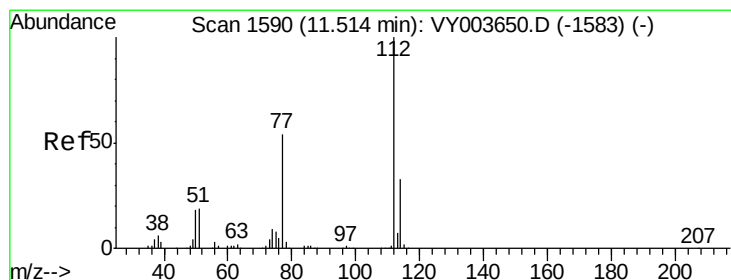
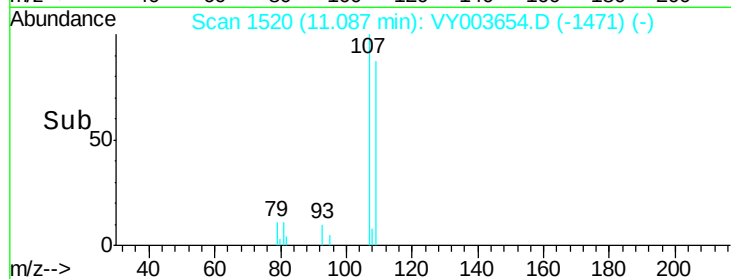
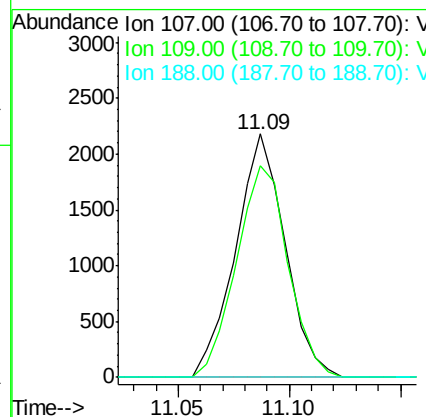
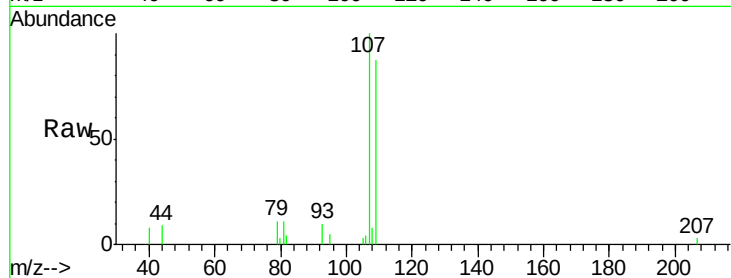
#50
1,2-Dibromoethane
Concen: 1.254 ug/L
RT: 11.09 min Scan# 1520
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
107	100		
109	86.7	65.5	121.7
188	0.0	3.8	5.8#

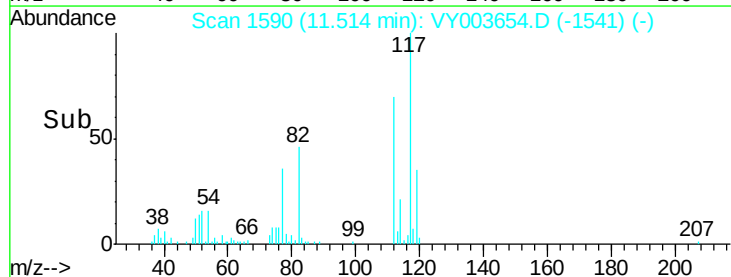
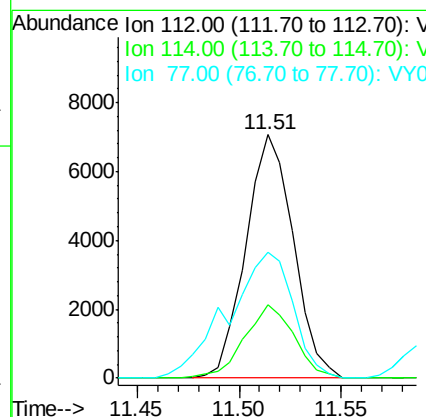
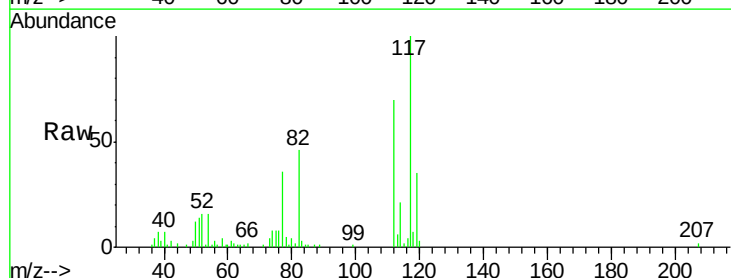
Manual Integrations
APPROVED

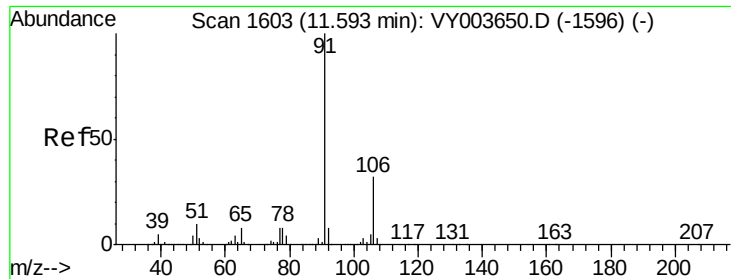
MMDadoda
12/4/2020 11:27:30 AM



#51
Chlorobenzene
Concen: 1.296 ug/L
RT: 11.51 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.2	22.2	41.2
77	51.8	43.8	65.6





#52

Ethylbenzene

Concen: 1.198 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 91 Resp: 17570

Ion Ratio Lower Upper

91 100

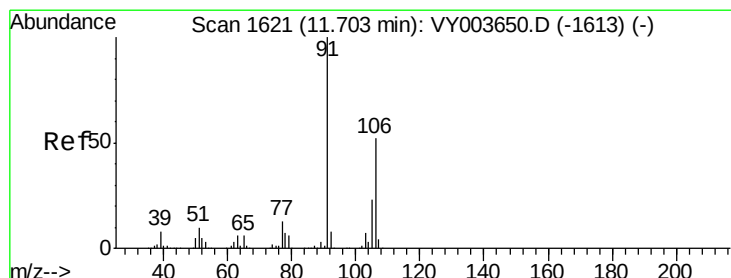
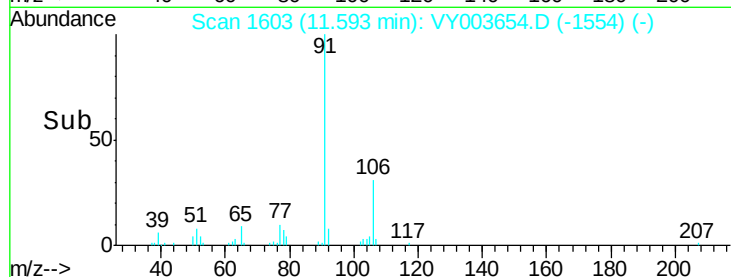
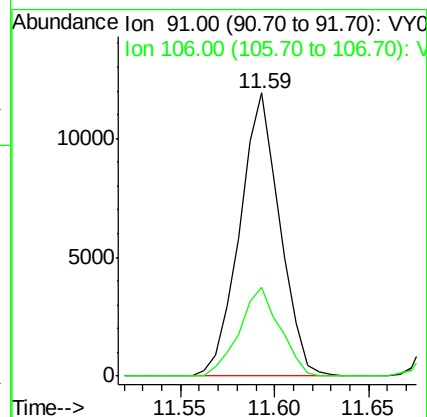
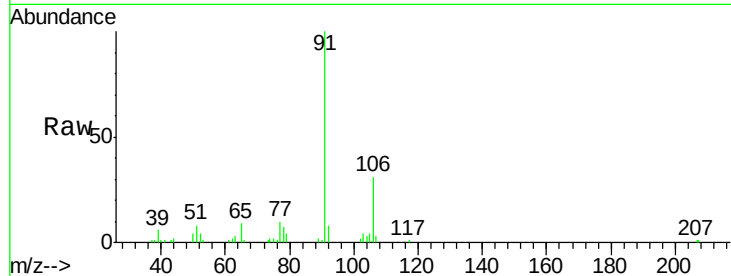
106 31.4 22.8 42.4

Manual Integrations

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MMDadoda

12/4/2020 11:27:30 AM



#53

m,p-Xylene

Concen: 1.229 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003654.D

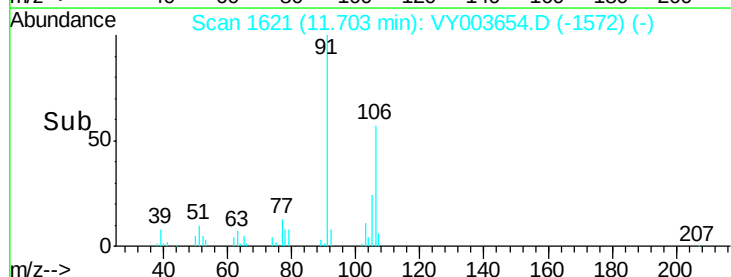
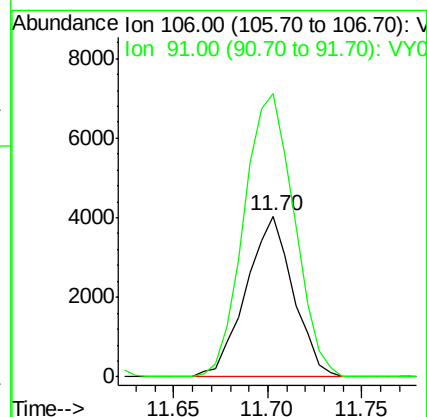
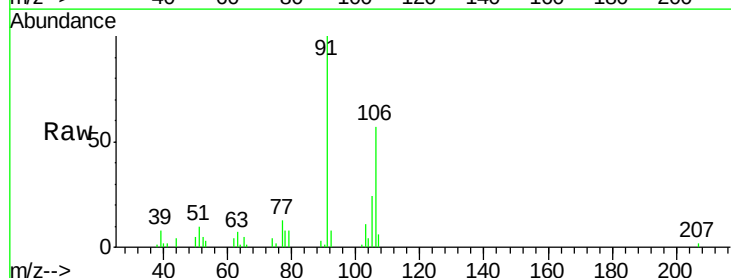
Acq: 03 Dec 2020 19:25

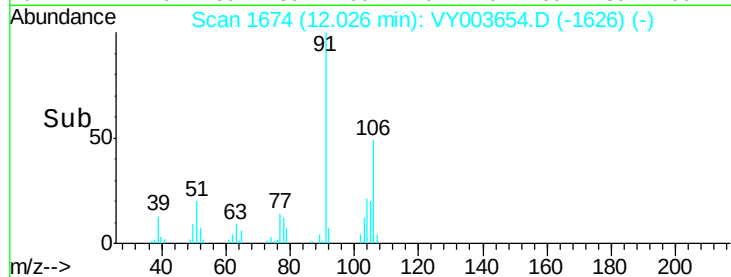
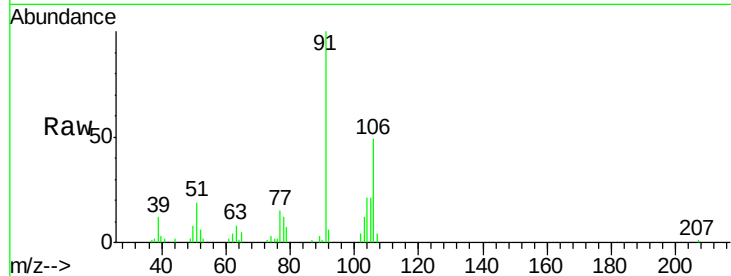
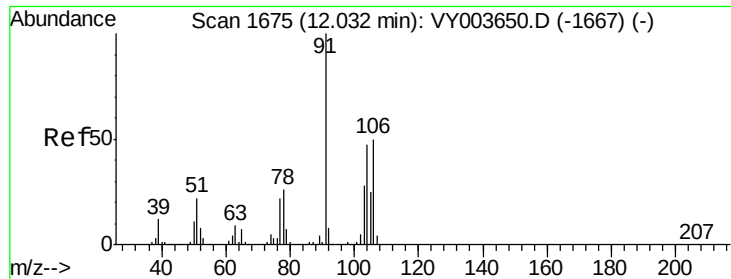
Tgt Ion: 106 Resp: 7051

Ion Ratio Lower Upper

106 100

91 176.2 133.1 247.3





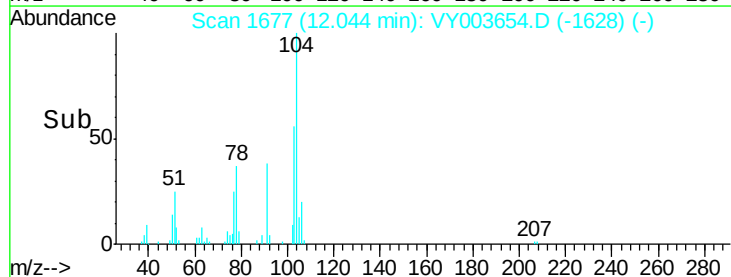
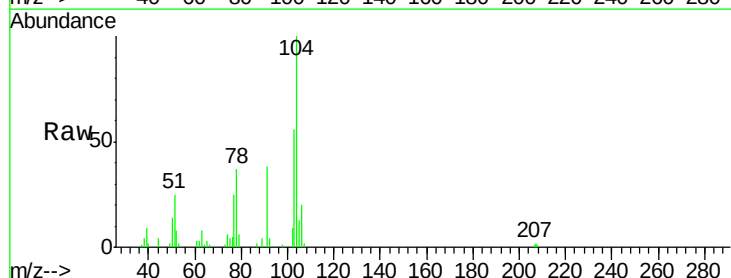
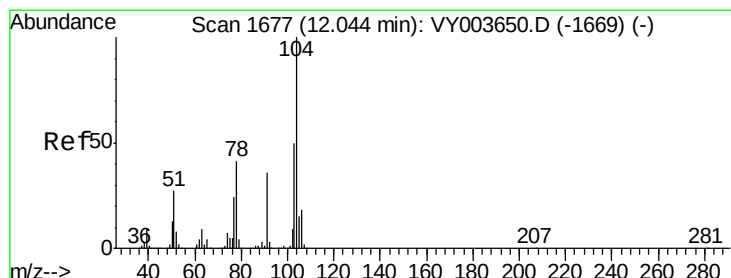
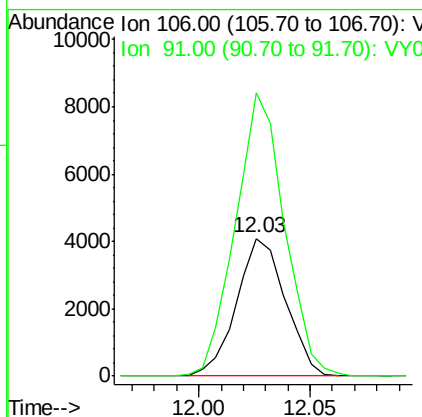
#54
o-Xylene
Concen: 1.160 ug/L
RT: 12.03 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tot Ion:106 Resp: 6286
Ion Ratio Lower Upper
106 100
91 205.3 144.1 267.5

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

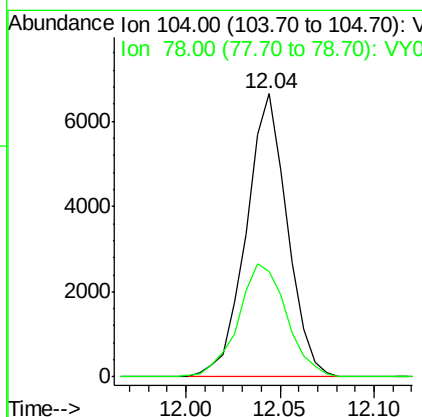
Manual Integrations
APPROVED

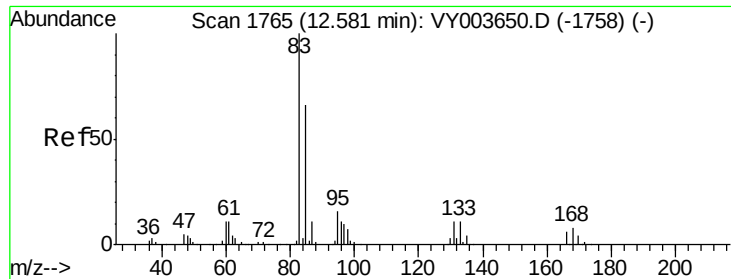
MMDadoda
12/4/2020 11:27:30 AM



#55
Styrene
Concen: 1.083 ug/L
RT: 12.04 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion:104 Resp: 10037
Ion Ratio Lower Upper
104 100
78 37.4 27.6 51.4





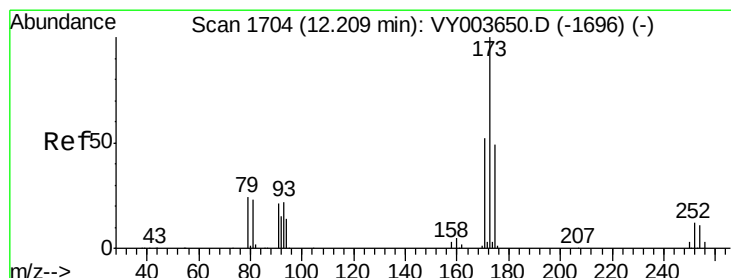
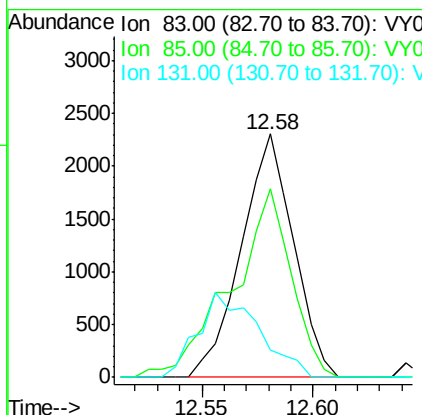
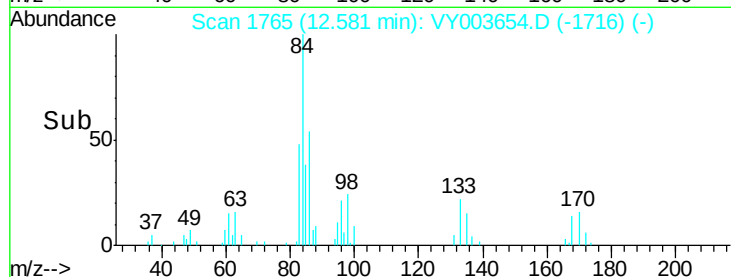
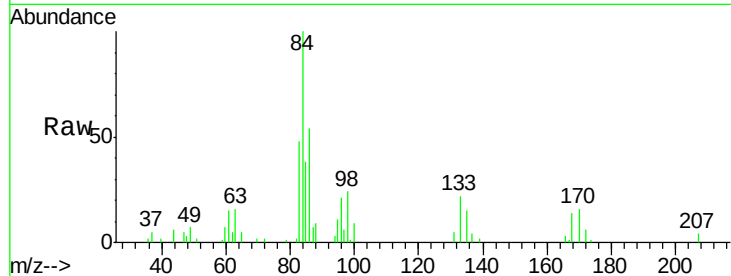
#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.019 ug/L
 RT: 12.58 min Scan# 1765
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
83	100		
85	77.6	46.1	85.7
131	11.1	8.1	12.1

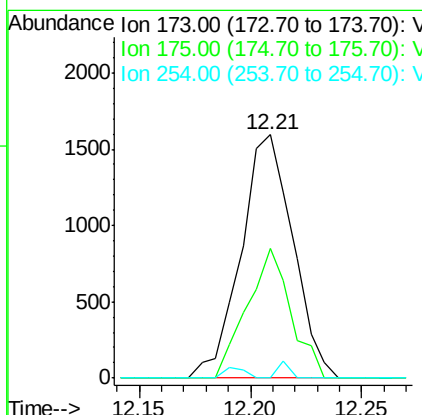
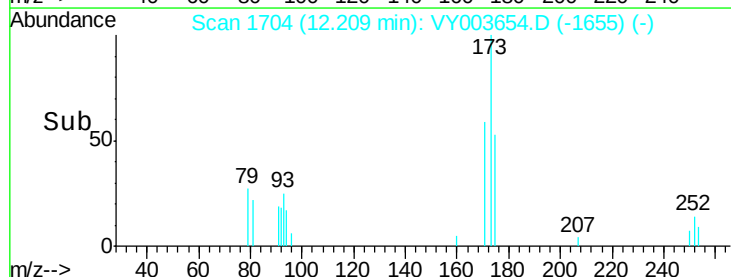
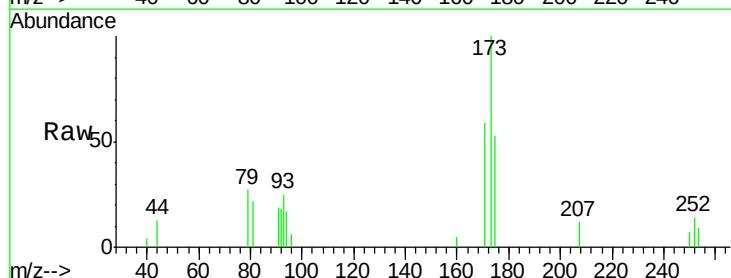
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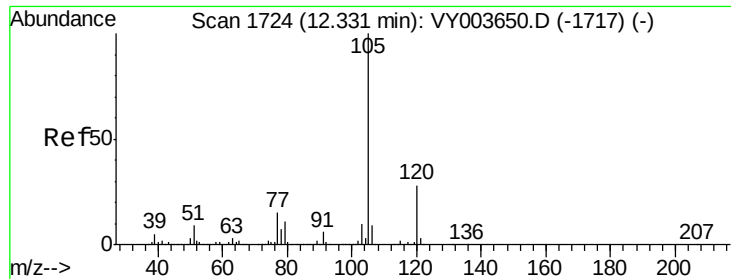
MMDadoda
 12/4/2020 11:27:30 AM



#59
 Bromoform
 Concen: 1.242 ug/L
 RT: 12.21 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
173	100		
175	44.9	38.2	57.4
254	1.8	8.0	12.0





#60

Isopropylbenzene

Concen: 1.160 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Instrument :

MSVOA_Y

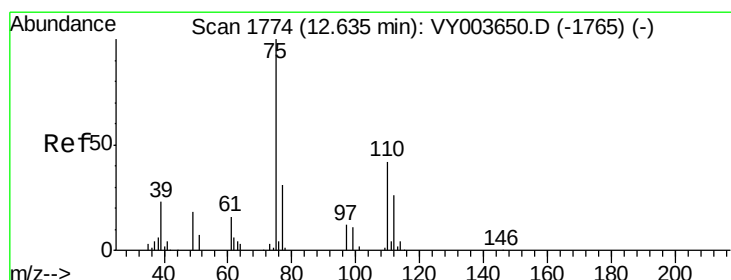
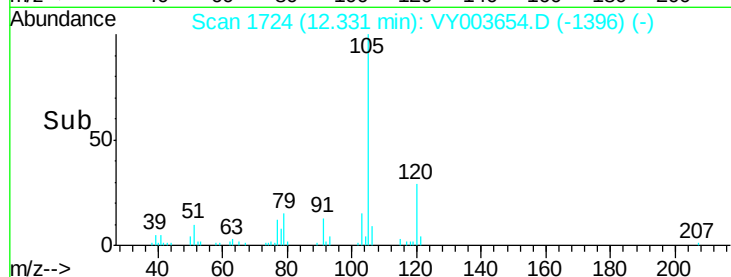
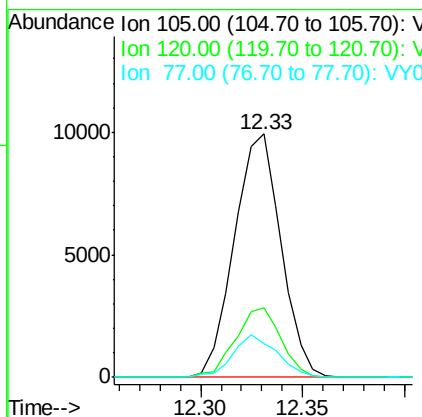
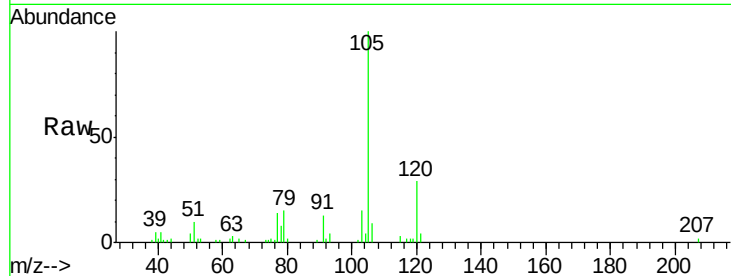
ClientSampleId :

MDL-SOIL-07

Tot Ion:	105	Resp:	15783
Ion Ratio	Lower	Upper	
105	100		
120	27.9	22.0	33.0
77	16.7	12.1	18.1

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#61

1,2,3-Trichloropropane

Concen: 1.287 ug/L

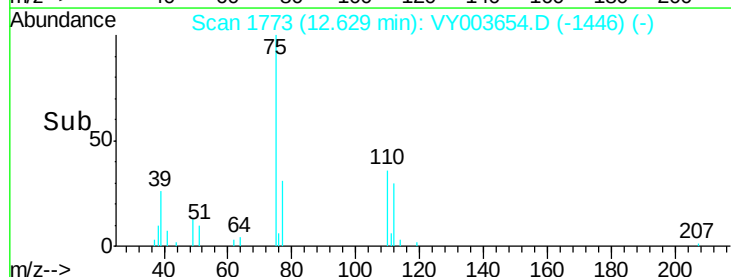
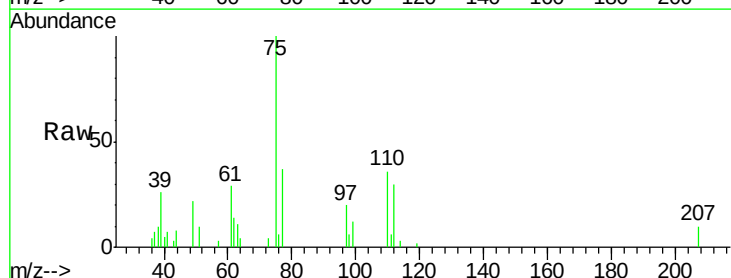
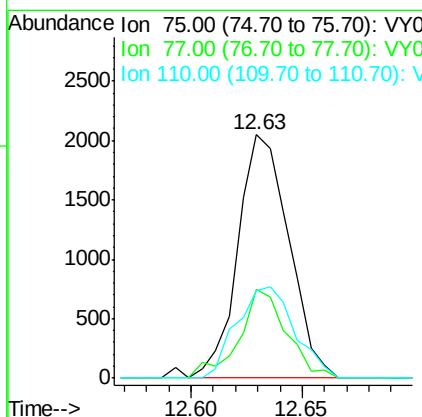
RT: 12.63 min Scan# 1773

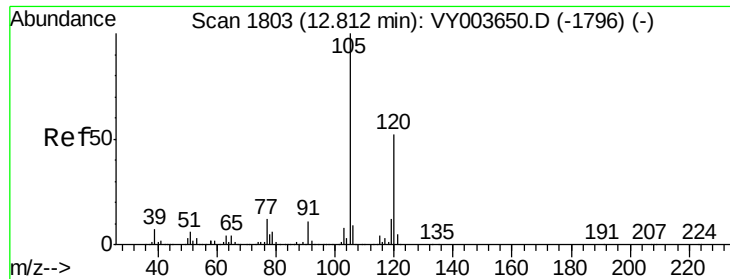
Delta R.T. -0.01 min

Lab File: VY003654.D

Acq: 03 Dec 2020 19:25

Tgt Ion:	75	Resp:	3274
Ion Ratio	Lower	Upper	
75	100		
77	33.9	26.3	39.5
110	42.6	33.0	49.4





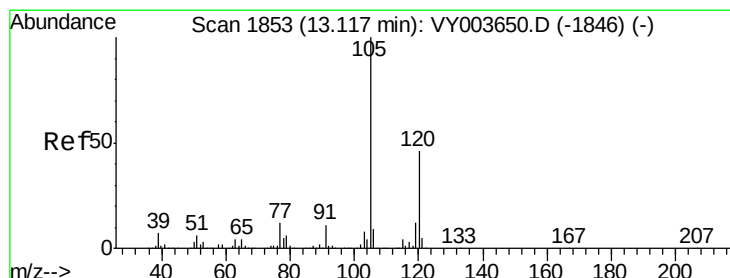
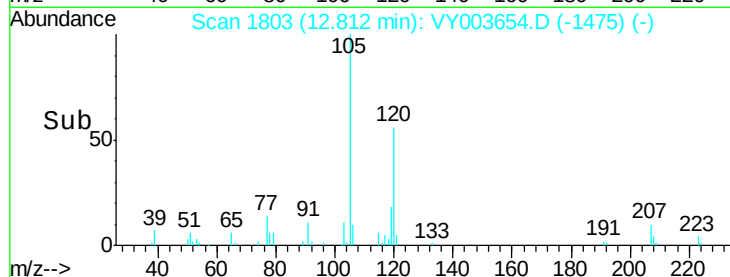
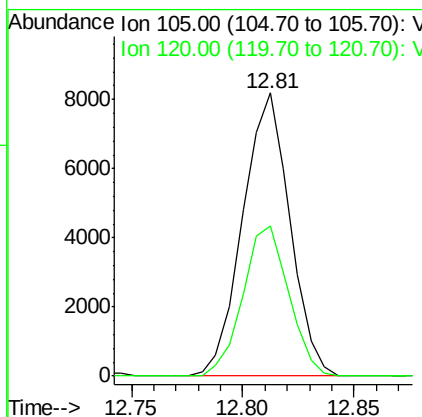
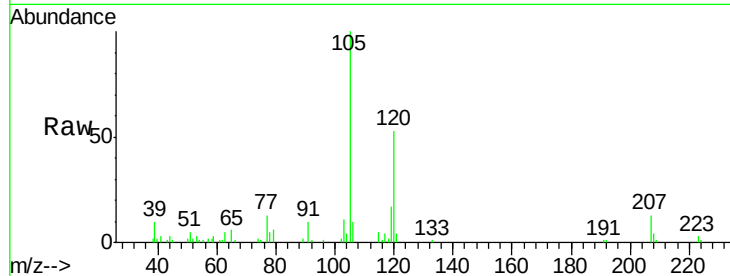
#62
 1,3,5-Trimethylbenzene
 Concen: 1.121 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:105 Resp: 12092
 Ion Ratio Lower Upper
 105 100
 120 51.4 40.4 60.6

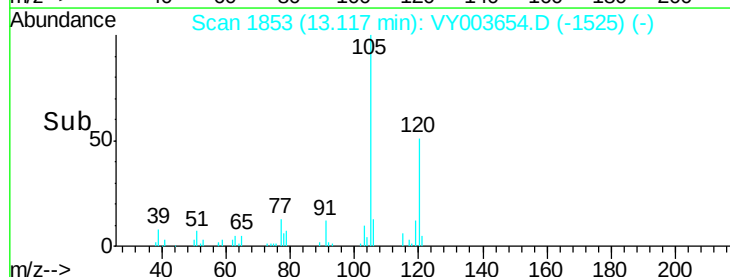
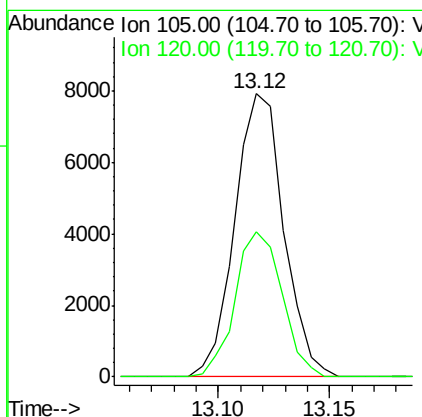
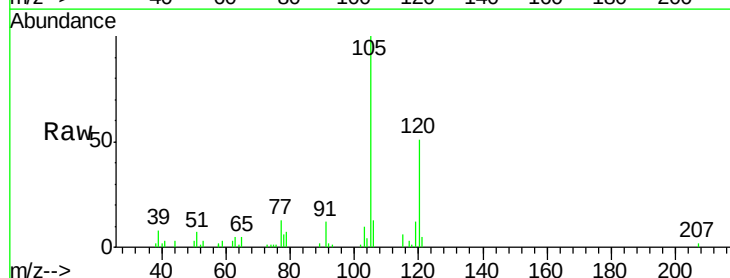
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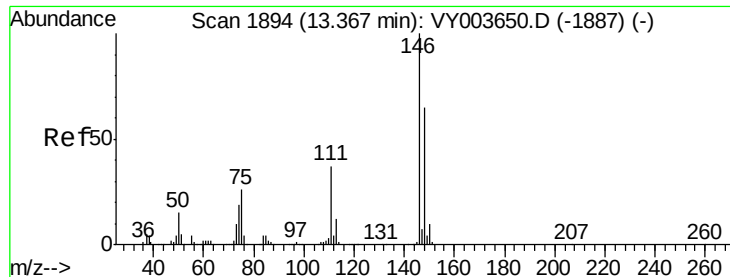
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.138 ug/L
 RT: 13.12 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion:105 Resp: 12131
 Ion Ratio Lower Upper
 105 100
 120 49.1 38.0 57.0





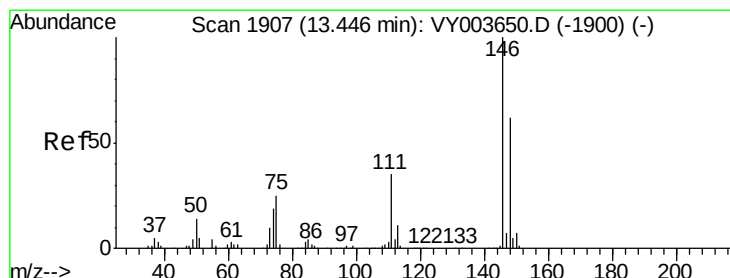
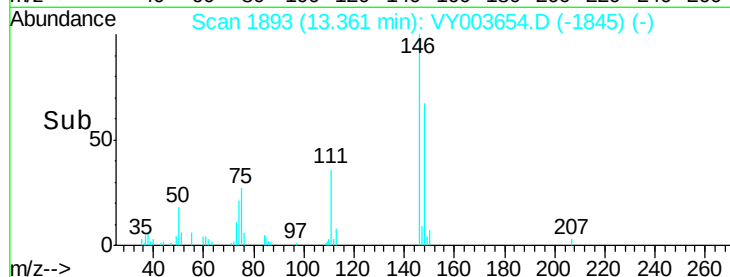
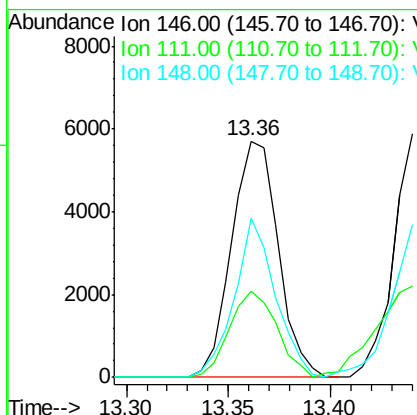
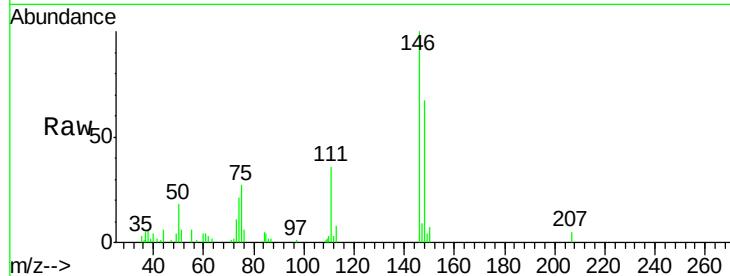
#64
 1,3-Dichlorobenzene
 Concen: 1.374 ug/L
 RT: 13.36 min Scan# 1893
 Delta R.T. -0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:	146	Resp:	9044
Ion Ratio	Lower	Upper	
146	100		
111	36.3	26.6	49.4
148	67.4	46.3	86.1

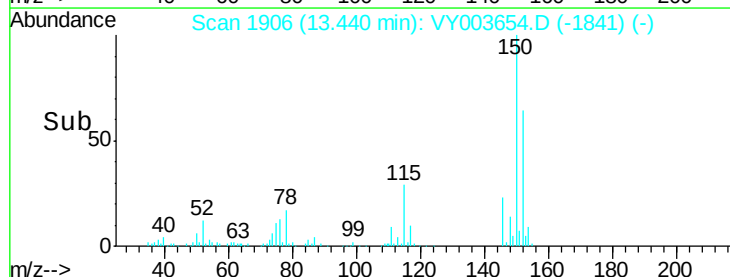
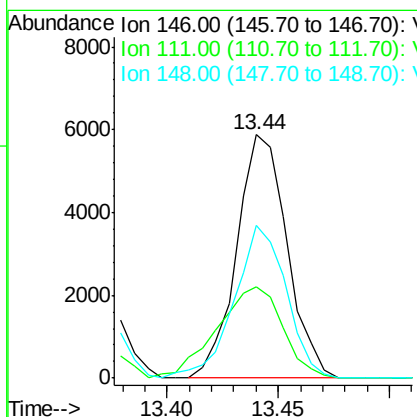
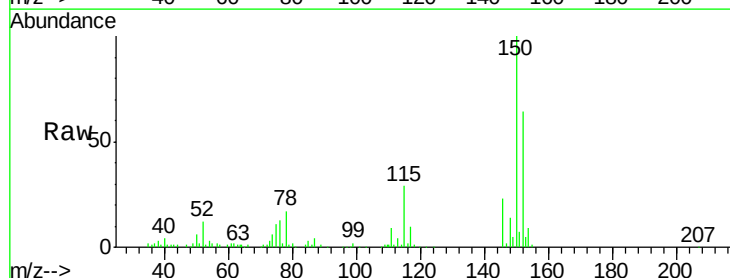
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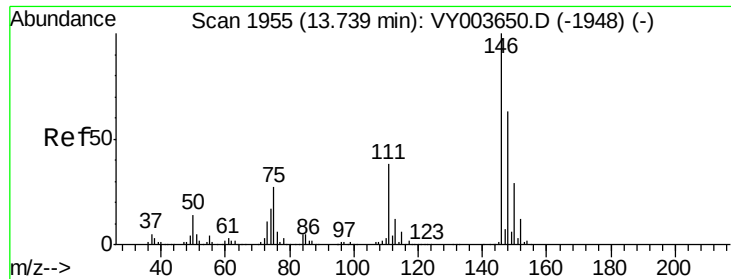
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#65
 1,4-Dichlorobenzene
 Concen: 1.387 ug/L
 RT: 13.44 min Scan# 1906
 Delta R.T. -0.01 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion:	146	Resp:	9277
Ion Ratio	Lower	Upper	
146	100		
111	37.3	24.7	45.9
148	62.7	43.4	80.6





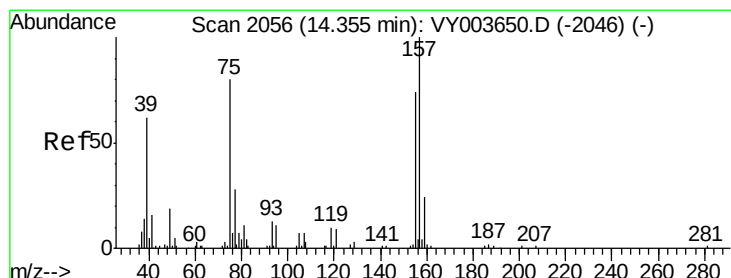
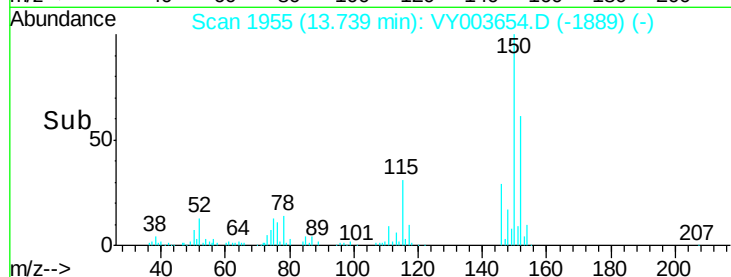
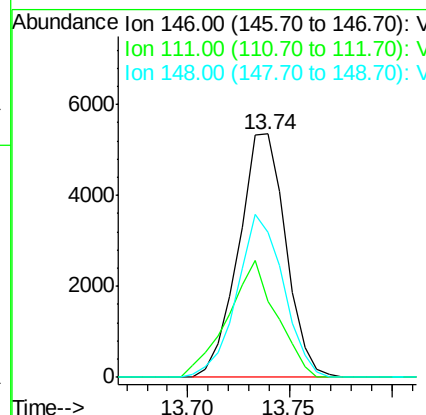
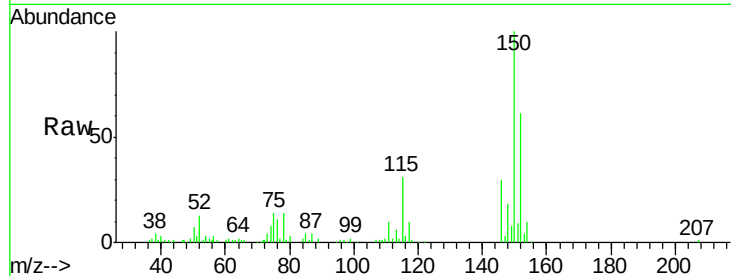
#67
 1,2-Dichlorobenzene
 Concen: 1.396 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
146	100		
111	31.4	31.0	46.6
148	59.6	51.0	76.4

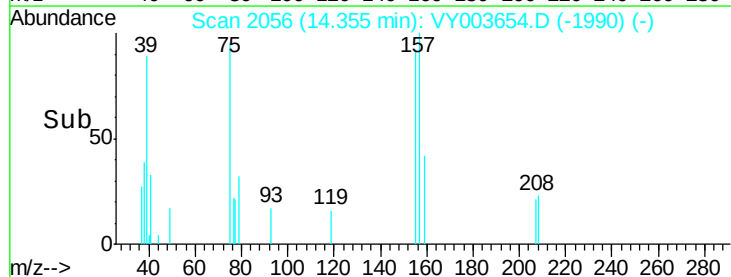
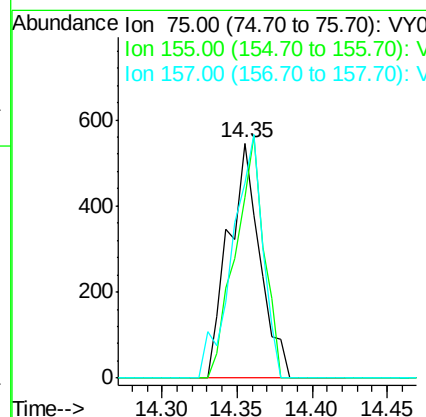
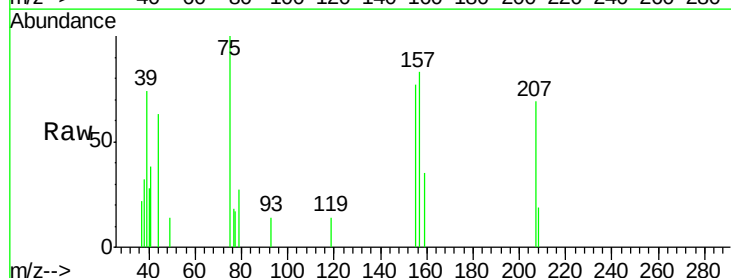
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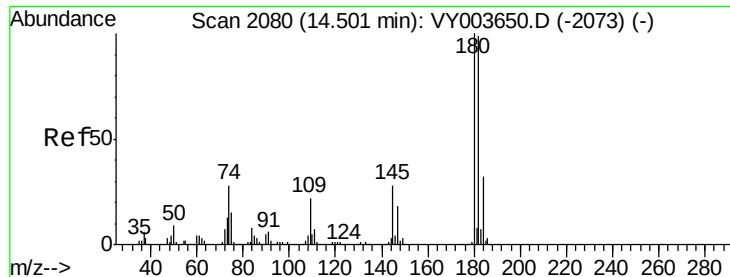
MMDadoda
 12/4/2020 11:27:30 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.338 ug/L m
 RT: 14.35 min Scan# 2056
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.7	73.4	110.0
157	83.2	98.1	147.1#





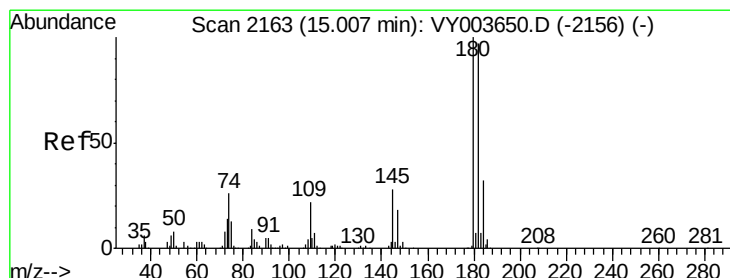
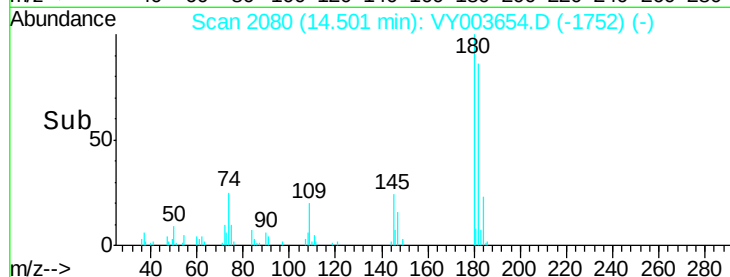
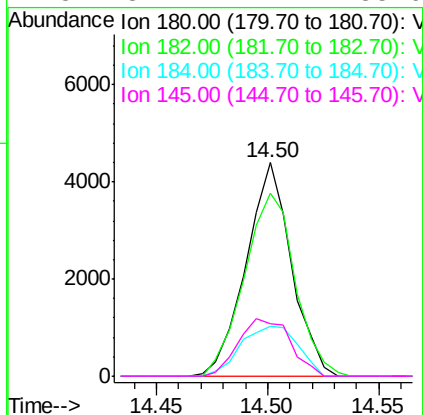
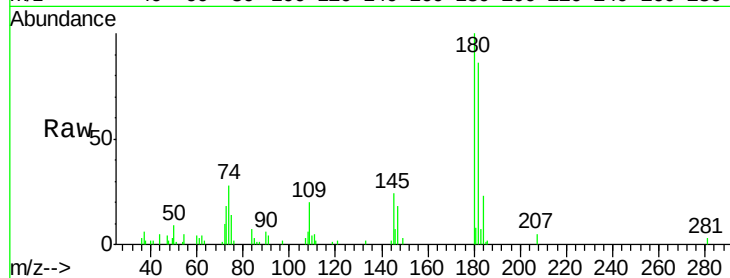
#69
 1,3,5-Trichlorobenzene
 Concen: 1.349 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.4	113.0
184	29.7	24.1	36.1
145	31.2	22.4	33.6

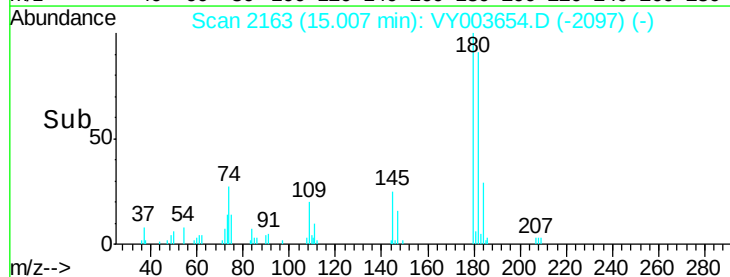
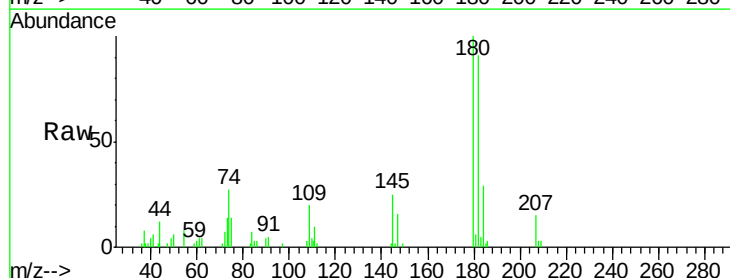
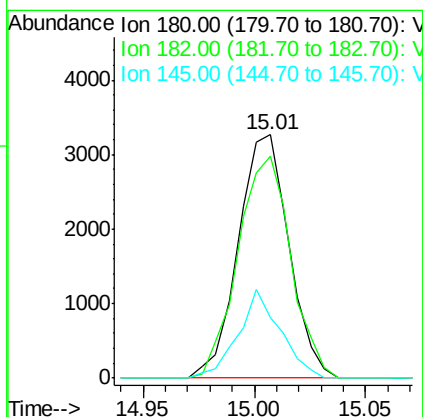
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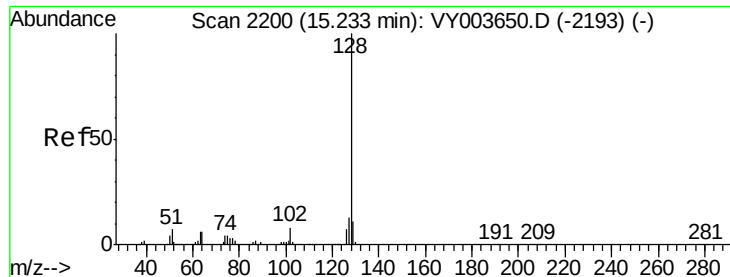
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 12/4/2020 11:27:30 AM



#70
 1,2,4-trichlorobenzene
 Concen: 1.314 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VY003654.D
 Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.1	114.1
145	30.0	22.8	34.2





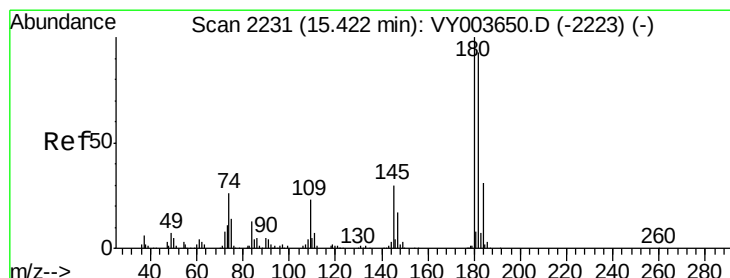
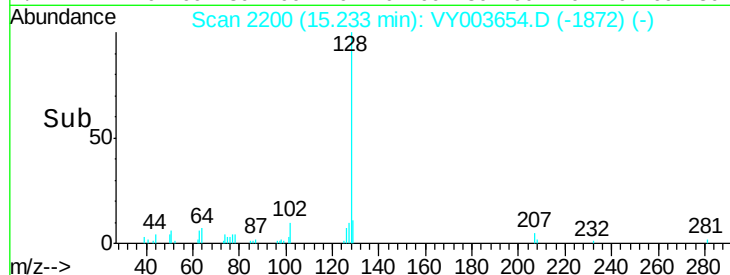
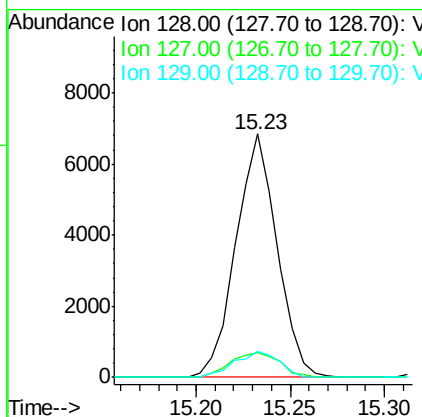
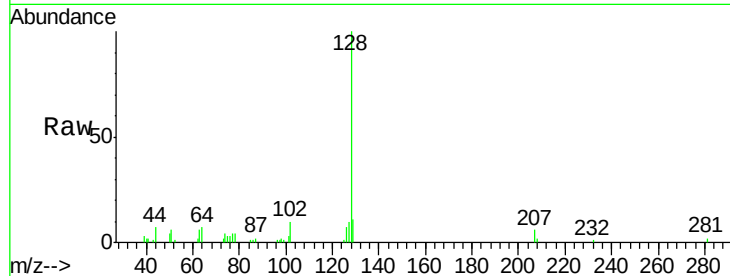
#71
Naphthalene
Concen: 1.203 ug/L
RT: 15.23 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.4	15.6
129	11.6	8.5	12.7

Manual Integrations
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12/4/2020 11:27:30 AM



#72
1,2,3-Trichlorobenzene
Concen: 1.253 ug/L
RT: 15.42 min Scan# 2230
Delta R.T. -0.01 min
Lab File: VY003654.D
Acq: 03 Dec 2020 19:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.2	114.4
145	31.0	23.6	35.4

