

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120720\
 Data File : VY003673.D
 Acq On : 07 Dec 2020 16:46
 Operator : SY/MD
 Sample : L4485-06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Manual Integrations
 APPROVED

MMDadoda
 12/8/2020 5:06:32 PM

Quant Time: Dec 08 01:13:07 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120720SMA.M

Quant Title : VOC Analysis

QLast Update : Tue Dec 08 00:43:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	242117	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	229519	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.43	152	117764	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	48298	19.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.60%
7) Chloroethane-d5	2.77	69	43187	21.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.40%
11) 1,1-Dichloroethene-d2	3.86	63	82845	15.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	62.52%
21) 2-Butanone-d5	6.90	46	60411	49.39	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.78%
24) Chloroform-d	7.49	84	118849	22.05	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	8.15	65	68587	22.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.96%
32) Benzene-d6	8.12	84	254037	22.35	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	9.12	67	80532	23.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.24%
41) Toluene-d8	10.18	98	227926	22.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.16%
43) trans-1,3-Dichloropropene-	10.44	79	37473	22.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.48%
47) 2-Hexanone-d5	10.79	63	47793	48.90	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.80%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	75822	23.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.08%
66) 1,2-Dichlorobenzene-d4	13.72	152	90682	23.70	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	3287	1.297 ug/L	95
3) Chloromethane	2.12	50	3783	1.302 ug/L	85
5) Vinyl chloride	2.26	62	3548	1.211 ug/L #	67
6) Bromomethane	2.66	94	2297	1.219 ug/L	94
8) Chloroethane	2.80	64	2178	1.189 ug/L	86
9) Trichlorofluoromethane	3.13	101	5545	1.207 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	3.92	101	4526m	1.496 ug/L	
12) 1,1-Dichloroethene	3.89	96	4164	1.445 ug/L #	1
13) Acetone	3.95	43	2589m	3.088 ug/L	
14) Carbon disulfide	4.20	76	10263	1.101 ug/L	99
15) Methyl Acetate	4.49	43	2582	1.216 ug/L #	88
16) Methylene chloride	4.73	84	10445	2.468 ug/L	98
17) trans-1,2-Dichloroethene	5.24	96	3932	1.223 ug/L	83
18) Methyl tert-butyl Ether	5.23	73	8899	1.097 ug/L #	78
19) 1,1-Dichloroethane	6.03	63	6284	1.177 ug/L	88
20) cis-1,2-Dichloroethene	7.00	96	4362	1.267 ug/L	88
22) 2-Butanone	7.00	43	4090	2.759 ug/L #	67

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Quant Time: Dec 08 01:13:07 2020
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 Quant Title : VOC Analysis
 QLast Update : Tue Dec 08 00:43:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.34	128	1957	1.142	ug/L #	86
25) Chloroform	7.52	83	7345	1.348	ug/L	85
27) 1,2-Dichloroethane	8.25	62	4591	1.255	ug/L #	90
29) Cyclohexane	7.79	56	5438	1.111	ug/L	97
30) 1,1,1-Trichloroethane	7.71	97	5581	1.169	ug/L	98
31) Carbon tetrachloride	7.92	117	5109	1.181	ug/L	95
33) Benzene	8.17	78	15008	1.156	ug/L	100
34) Trichloroethene	8.95	95	4133	1.183	ug/L	94
35) Methylcyclohexane	9.19	83	6529	1.187	ug/L	96
37) 1,2-Dichloropropane	9.22	63	3892	1.200	ug/L #	84
38) Bromodichloromethane	9.50	83	4775	1.151	ug/L	86
39) cis-1,3-Dichloropropene	9.93	75	5690	1.112	ug/L	97
40) 4-Methyl-2-pentanone	10.07	43	7346	2.502	ug/L	95
42) Toluene	10.25	91	16661	1.205	ug/L	98
44) trans-1,3-Dichloropropene	10.47	75	7239	1.519	ug/L	99
45) 1,1,2-Trichloroethane	10.65	97	3481	1.229	ug/L	88
46) Tetrachloroethene	10.72	164	3444	1.227	ug/L	96
48) 2-Hexanone	10.83	43	4755	2.322	ug/L #	93
49) Dibromochloromethane	10.98	129	3920	1.201	ug/L	93
50) 1,2-Dibromoethane	11.09	107	3302	1.208	ug/L #	98
51) Chlorobenzene	11.52	112	11241	1.230	ug/L	93
52) Ethylbenzene	11.59	91	17662	1.184	ug/L	95
53) m,p-Xylene	11.70	106	7201	1.235	ug/L	94
54) o-Xylene	12.03	106	6314	1.133	ug/L	83
55) Styrene	12.04	104	10450	1.098	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.58	83	4295	1.398	ug/L #	82
59) Bromoform	12.21	173	2481	1.131	ug/L	92
60) Isopropylbenzene	12.33	105	16037	1.120	ug/L	98
61) 1,2,3-Trichloropropane	12.64	75	3304	1.258	ug/L	97
62) 1,3,5-Trimethylbenzene	12.81	105	12449	1.096	ug/L	96
63) 1,2,4-Trimethylbenzene	13.12	105	12102	1.073	ug/L	97
64) 1,3-Dichlorobenzene	13.37	146	8588	1.237	ug/L	92
65) 1,4-Dichlorobenzene	13.45	146	9285	1.321	ug/L	94
67) 1,2-Dichlorobenzene	13.74	146	8404	1.302	ug/L	96
68) 1,2-Dibromo-3-chloropropan	14.35	75	774m	1.341	ug/L	
69) 1,3,5-Trichlorobenzene	14.50	180	6503	1.322	ug/L	94
70) 1,2,4-trichlorobenzene	15.01	180	5341	1.277	ug/L	99
71) Naphthalene	15.24	128	9736	1.097	ug/L	97
72) 1,2,3-Trichlorobenzene	15.42	180	5014	1.307	ug/L	97

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

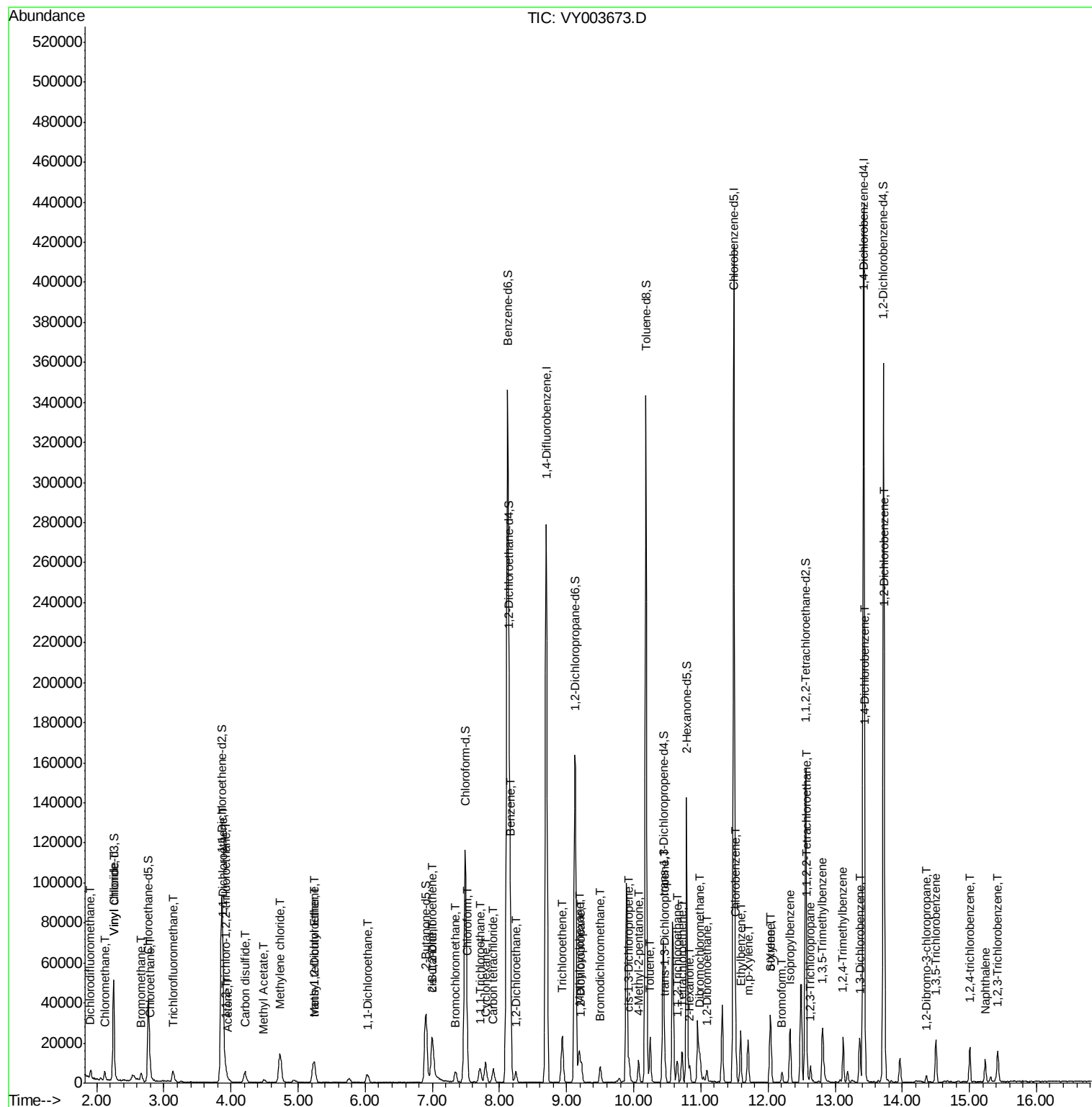
Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120720\
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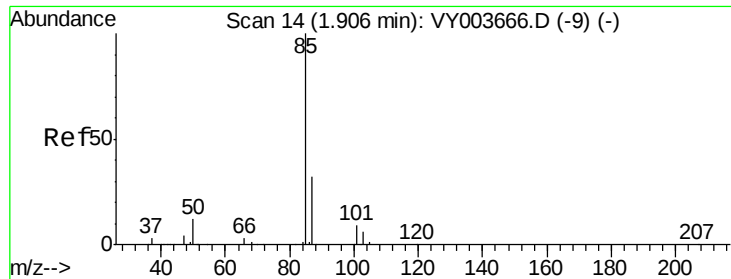
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Manual Integrations
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Quant Time: Dec 08 01:13:07 2020
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.297 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 85 Resp: 3287

Ion Ratio Lower Upper

85 100

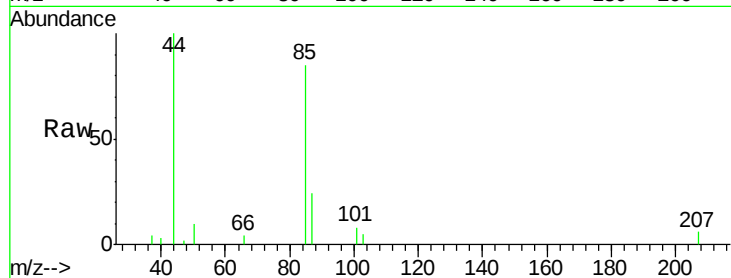
87 28.4 25.1 37.7

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

2500

2000

1500

1000

500

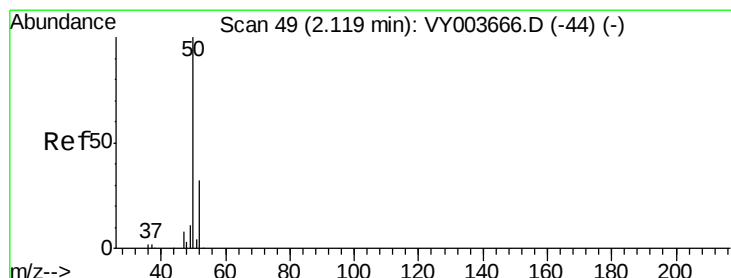
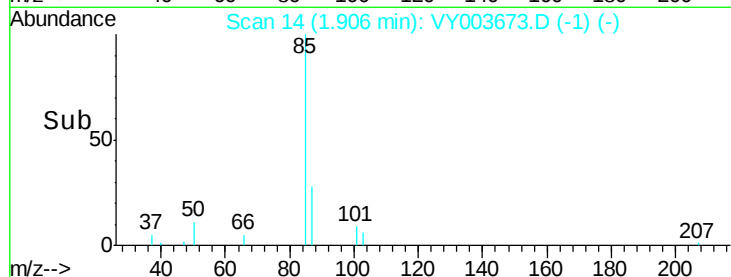
0

1.85

1.90

1.95

Time-->



#3

Chloromethane

Concen: 1.302 ug/L

RT: 2.12 min Scan# 49

Delta R.T. -0.00 min

Lab File: VY003673.D

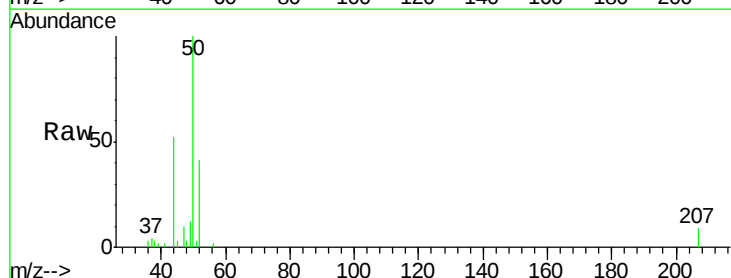
Acq: 07 Dec 2020 16:46

Tgt Ion: 50 Resp: 3783

Ion Ratio Lower Upper

50 100

52 40.9 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

2500

2000

1500

1000

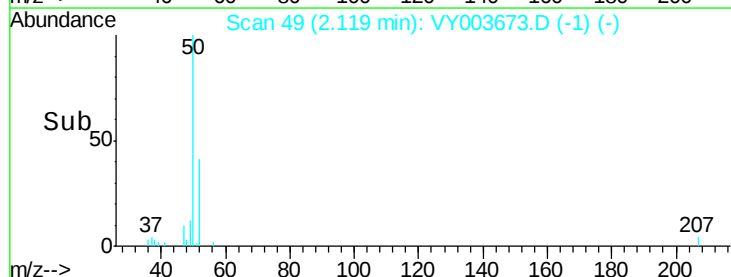
500

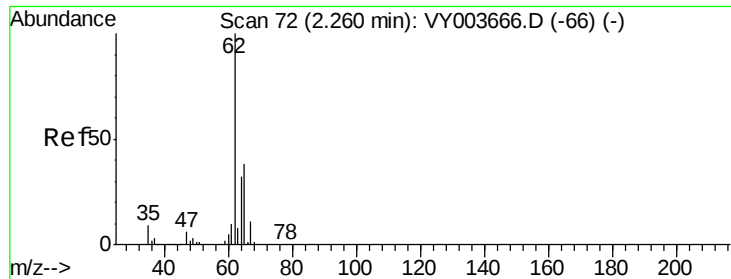
0

2.10

2.15

Time-->





#5

Vinyl chloride

Concen: 1.211 ug/L

RT: 2.26 min Scan# 72

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 62 Resp: 3548

Ion Ratio Lower Upper

62 100

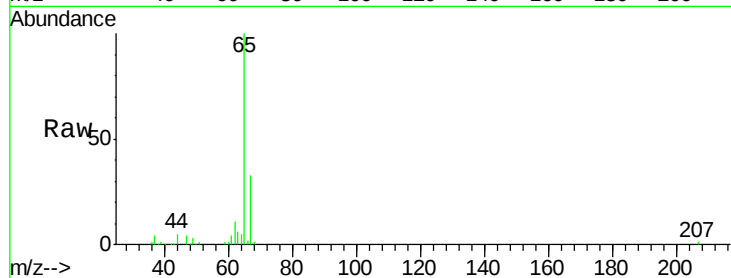
64 45.2 19.6 36.4#

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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0

2500

2000

1500

1000

500

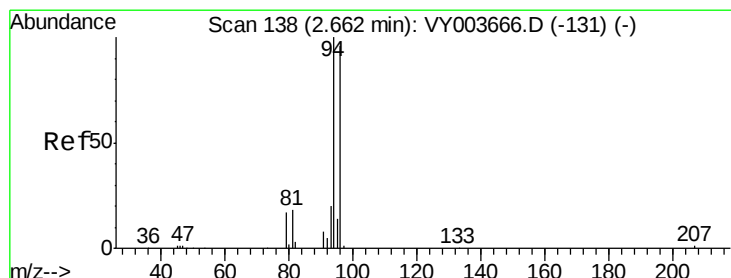
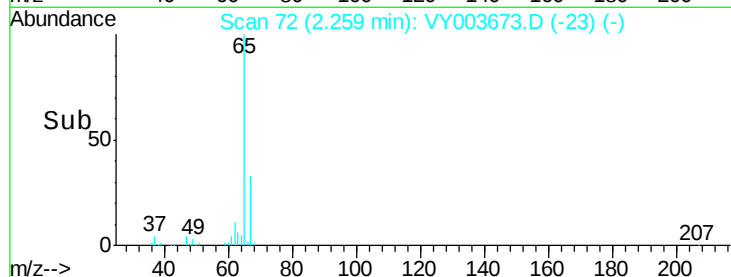
0

2.20

2.25

2.30

Time-->



#6

Bromomethane

Concen: 1.219 ug/L

RT: 2.66 min Scan# 138

Delta R.T. -0.00 min

Lab File: VY003673.D

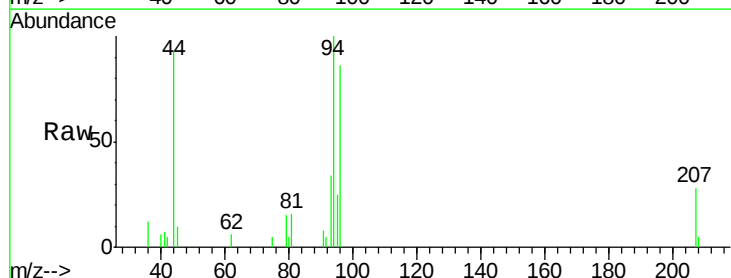
Acq: 07 Dec 2020 16:46

Tgt Ion: 94 Resp: 2297

Ion Ratio Lower Upper

94 100

96 86.3 56.6 105.2



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0

1200

1000

800

600

400

200

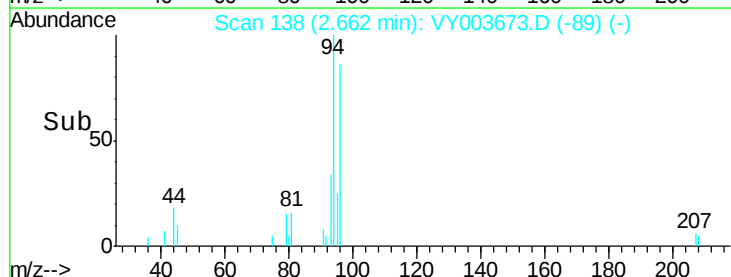
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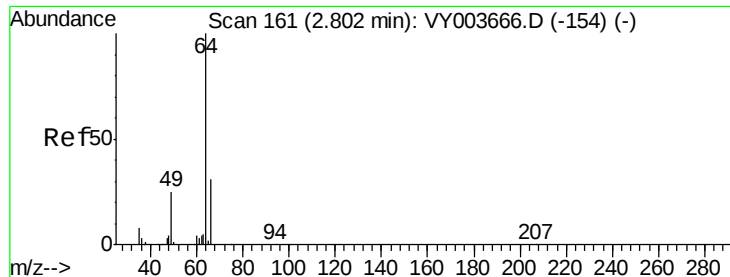
2.60

2.65

2.70

Time-->





#8

Chloroethane

Concen: 1.189 ug/L

RT: 2.80 min Scan# 161

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 64 Resp: 2178

Ion Ratio Lower Upper

64 100

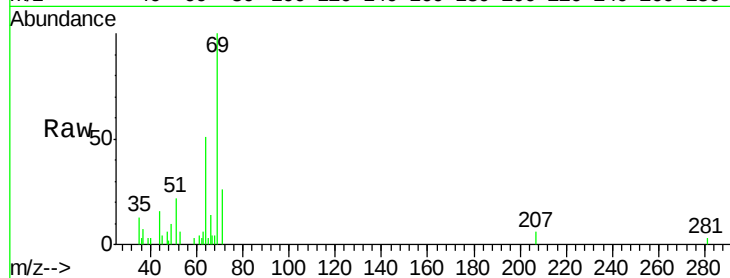
66 27.0 24.4 45.2

Manual Integrations

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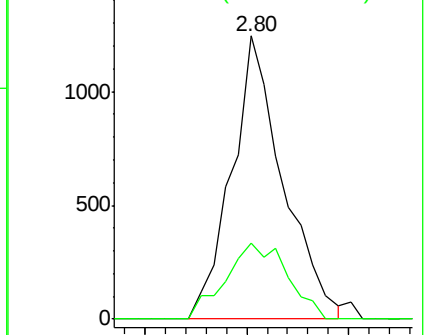
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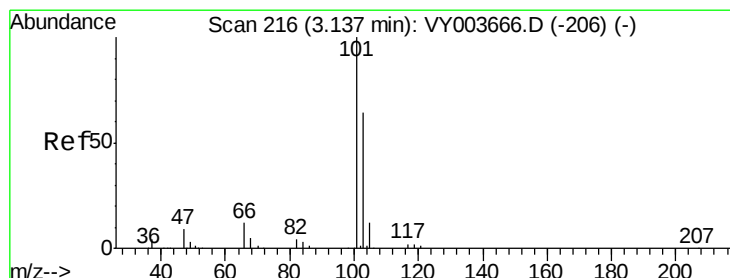
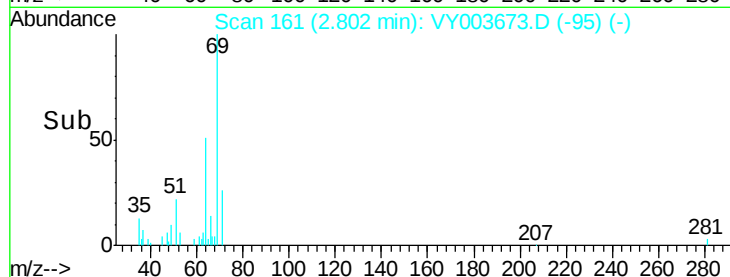


Abundance Ion 64.00 (63.70 to 64.70): VY0

Ion 66.00 (65.70 to 66.70): VY0



Time-->



#9

Trichlorofluoromethane

Concen: 1.207 ug/L

RT: 3.13 min Scan# 215

Delta R.T. -0.01 min

Lab File: VY003673.D

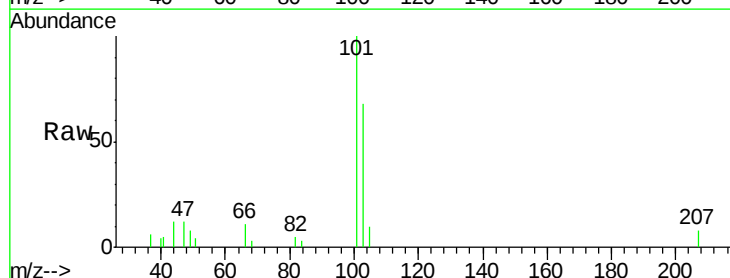
Acq: 07 Dec 2020 16:46

Tgt Ion: 101 Resp: 5545

Ion Ratio Lower Upper

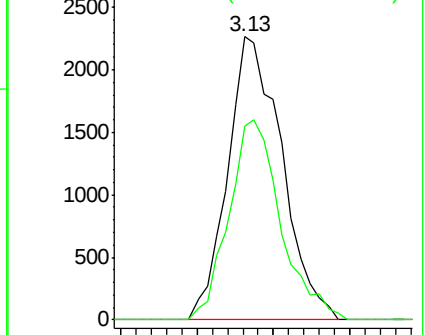
101 100

103 67.8 52.3 78.5

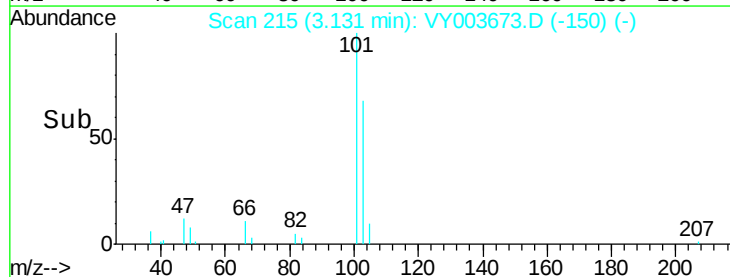


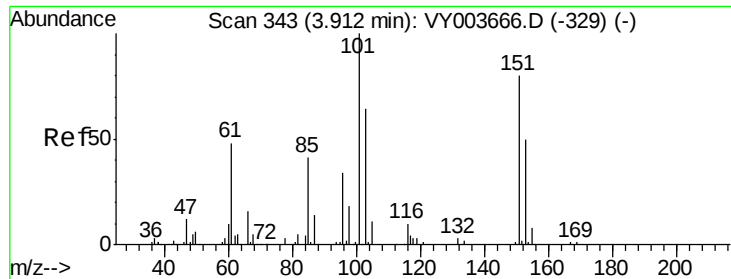
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->





#10

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

Concen: 1.496 ug/L m

RT: 3.92 min Scan# 345

Delta R.T. 0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

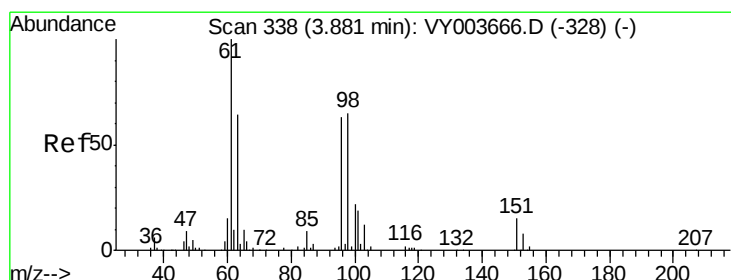
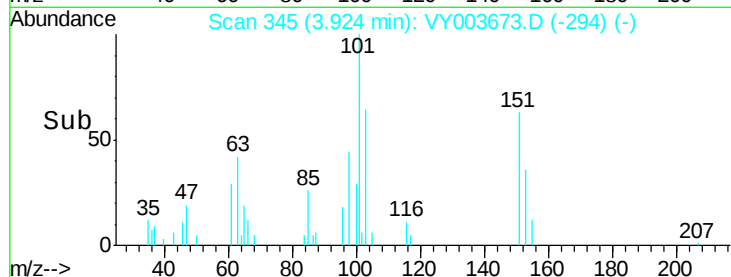
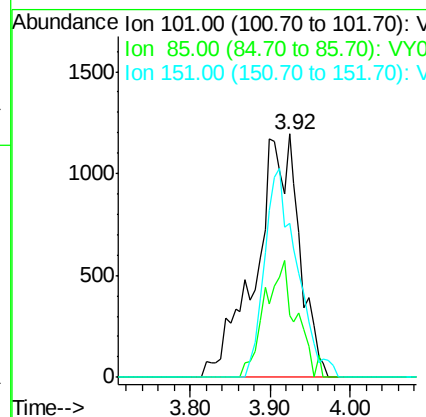
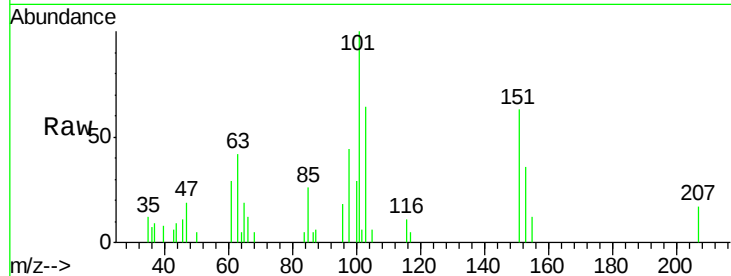
ClientSampleId :

MDL-SOIL-06

Tot Ion:	101	Resp:	4526
Ion Ratio	Lower	Upper	
101	100		
85	16.9	35.1	52.7#
151	61.6	39.9	59.9#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 1.445 ug/L

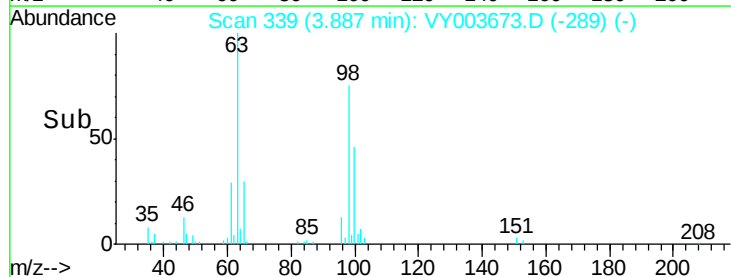
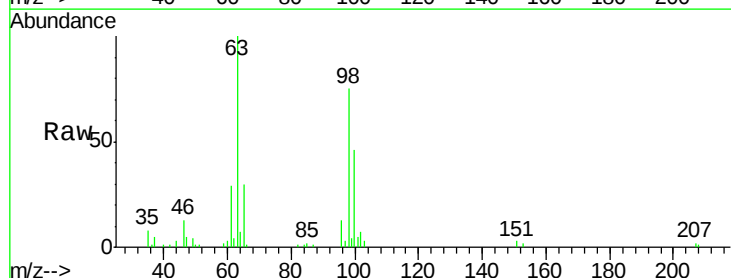
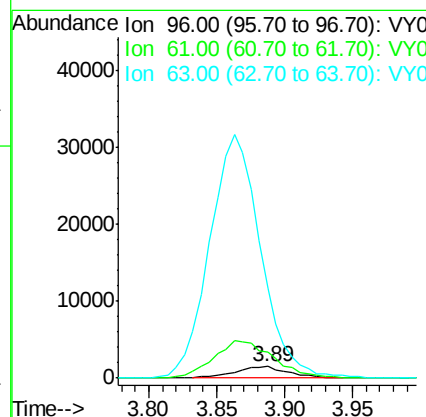
RT: 3.89 min Scan# 339

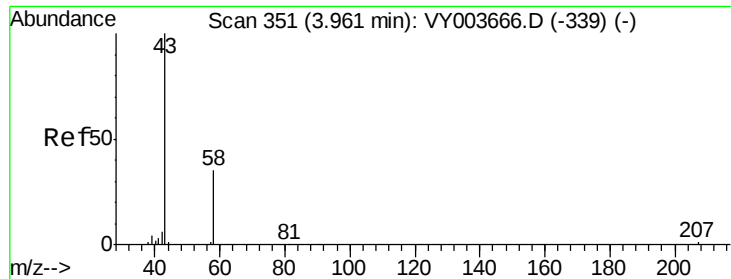
Delta R.T. 0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Tgt Ion:	96	Resp:	4164
Ion Ratio	Lower	Upper	
96	100		
61	225.6	108.6	201.8#
63	786.1	61.0	113.2#





#13

Acetone

Concen: 3.088 ug/L m

RT: 3.95 min Scan# 350

Delta R.T. -0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Tot Ion: 43 Resp: 2589

Ion Ratio Lower Upper

43 100

58 16.8 0.0 30.8

Instrument :

MSVOA_Y

ClientSampleId :

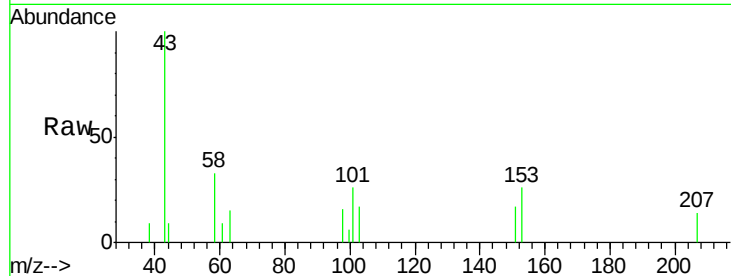
MDL-SOIL-06

Manual Integrations

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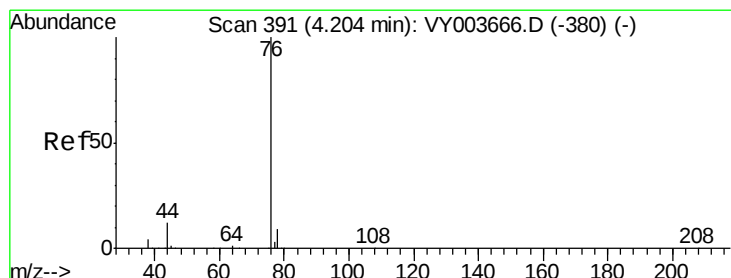
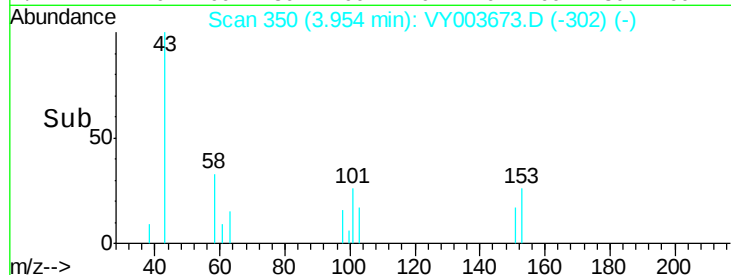
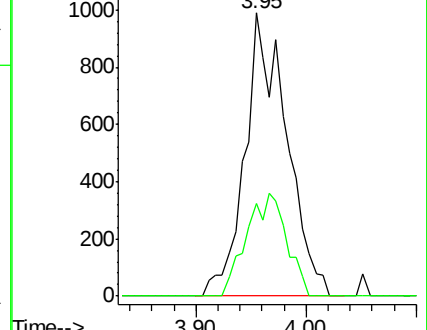
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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 1.101 ug/L

RT: 4.20 min Scan# 391

Delta R.T. -0.00 min

Lab File: VY003673.D

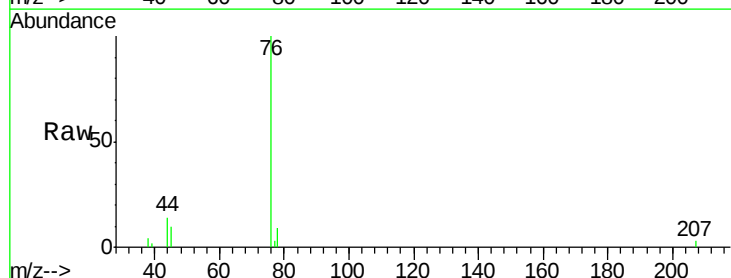
Acq: 07 Dec 2020 16:46

Tgt Ion: 76 Resp: 10263

Ion Ratio Lower Upper

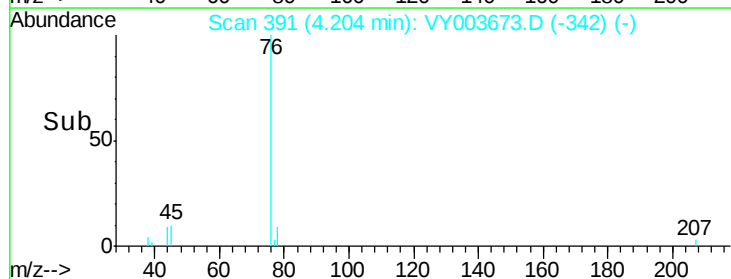
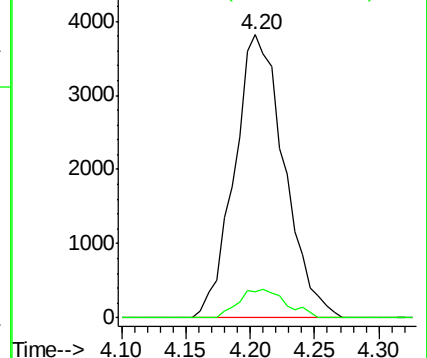
76 100

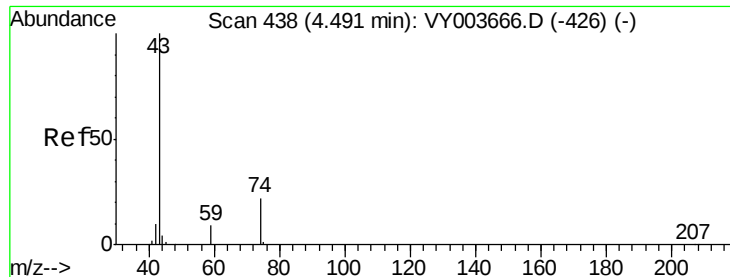
78 9.4 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





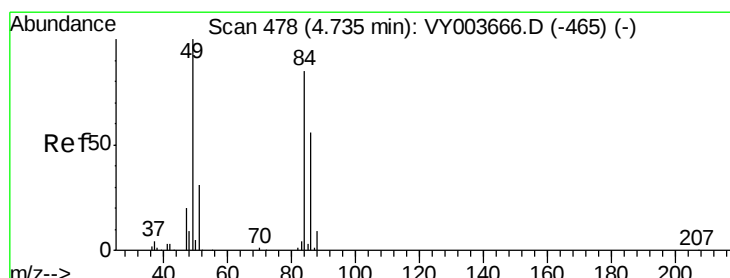
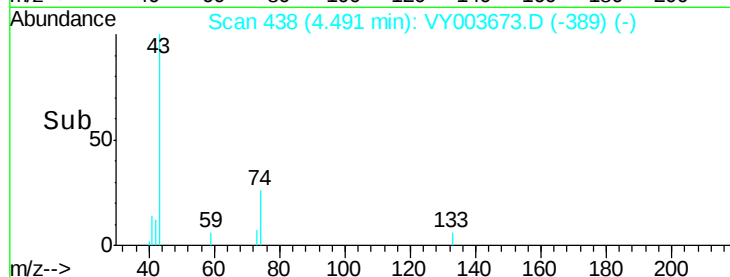
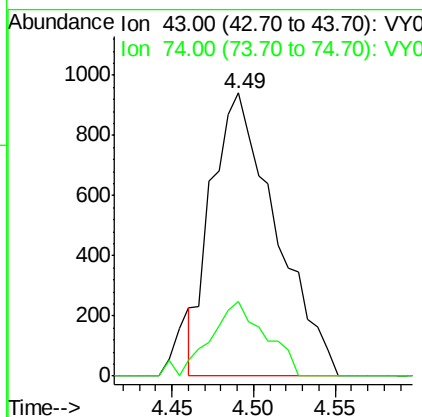
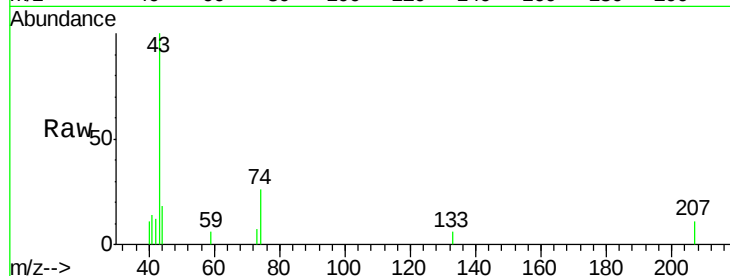
#15
Methyl Acetate
Concen: 1.216 ug/L
RT: 4.49 min Scan# 438
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion: 43 Resp: 2582
Ion Ratio Lower Upper
43 100
74 22.1 13.4 20.2#

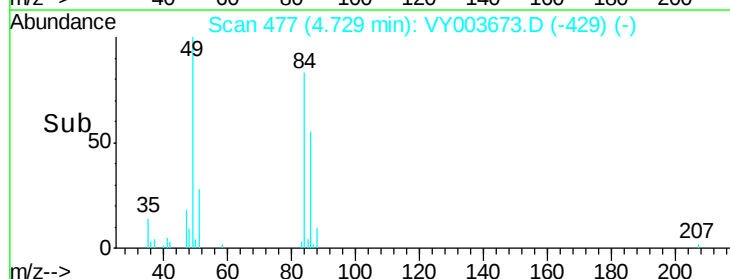
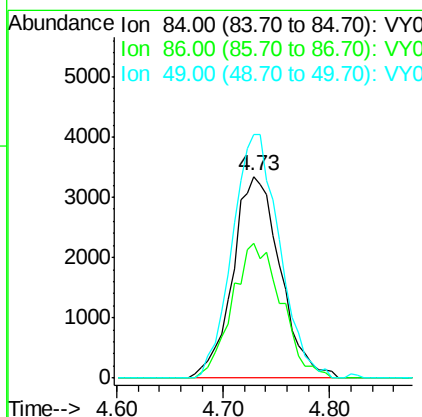
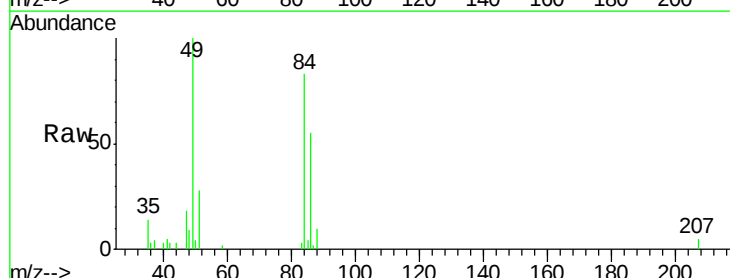
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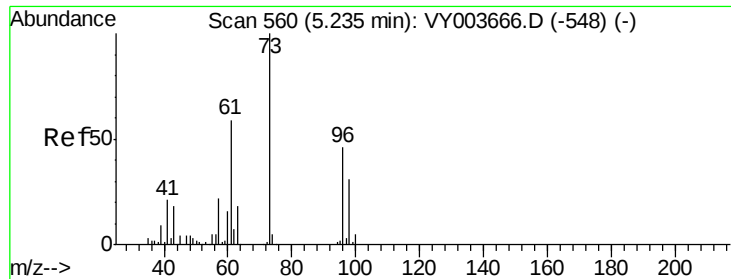
MMDadoda
12/8/2020 5:06:32 PM



#16
Methylene chloride
Concen: 2.468 ug/L
RT: 4.73 min Scan# 477
Delta R.T. -0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion: 84 Resp: 10445
Ion Ratio Lower Upper
84 100
86 66.8 45.2 84.0
49 120.5 83.1 154.3





#17

trans-1,2-Dichloroethene

Concen: 1.223 ug/L

RT: 5.24 min Scan# 561

Delta R.T. 0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

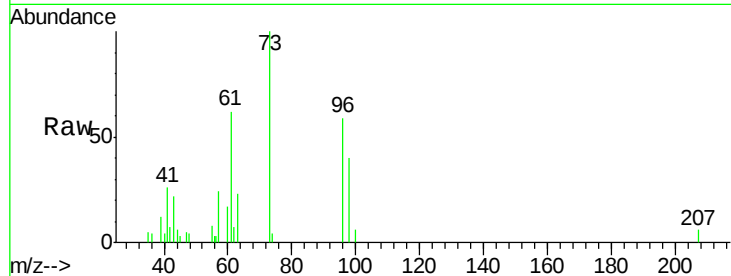
ClientSampleId :

MDL-SOIL-06

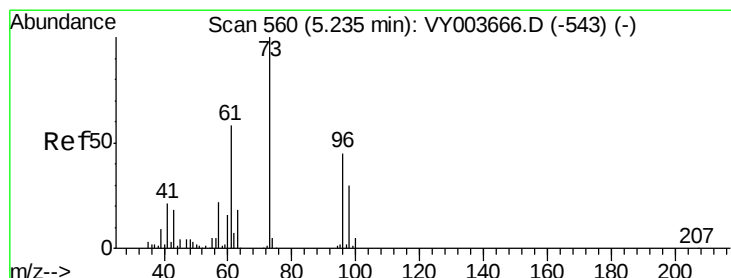
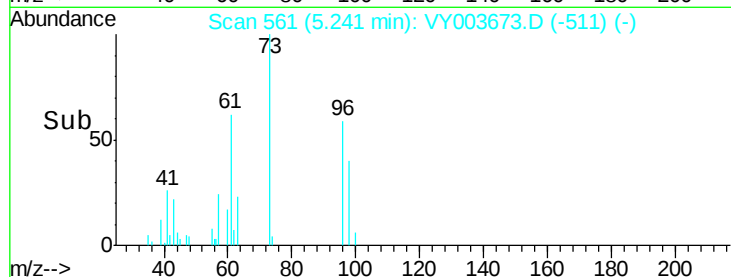
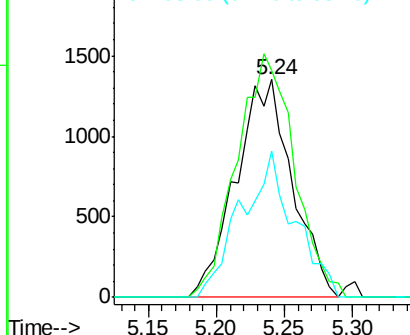
Tot Ion:	96	Resp:	3932
Ion	Ratio	Lower	Upper
96	100		
61	104.0	91.8	170.6
98	67.0	44.7	82.9

Manual Integrations
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12/8/2020 5:06:32 PM



Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 98.00 (97.70 to 98.70): VY0



#18

Methyl tert-butyl Ether

Concen: 1.097 ug/L

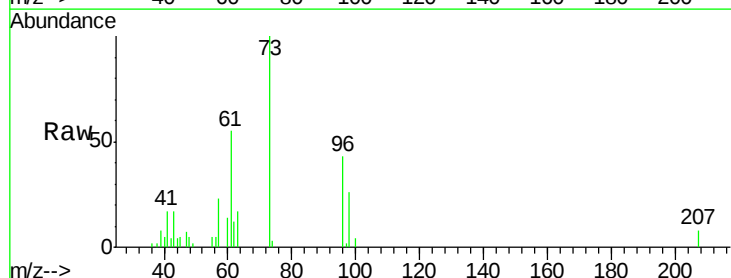
RT: 5.23 min Scan# 560

Delta R.T. -0.00 min

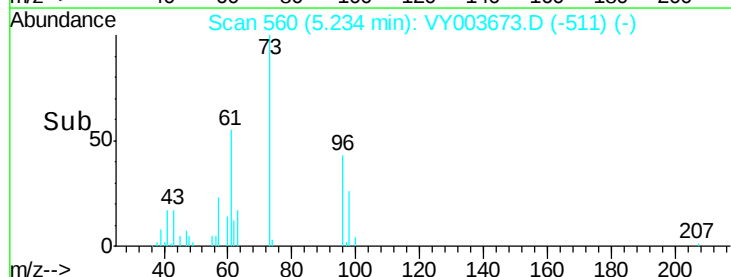
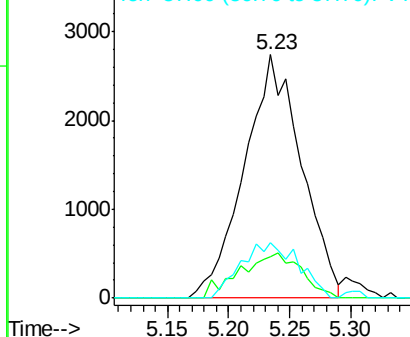
Lab File: VY003673.D

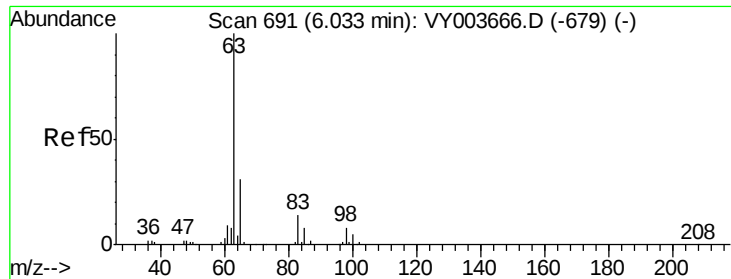
Acq: 07 Dec 2020 16:46

Tgt Ion:	73	Resp:	8899
Ion	Ratio	Lower	Upper
73	100		
43	18.8	10.2	15.4#
57	10.4	18.3	27.5#



Abundance Ion 73.00 (72.70 to 73.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 57.00 (56.70 to 57.70): VY0





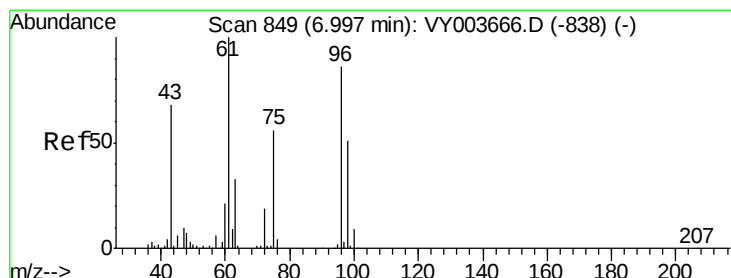
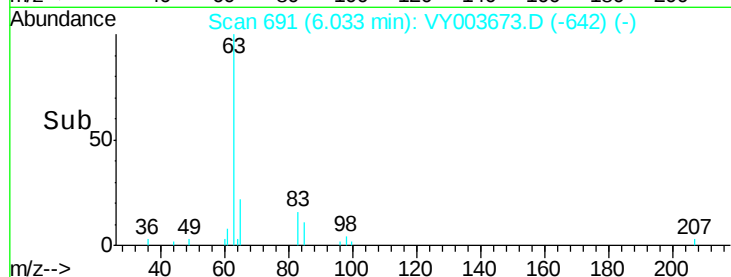
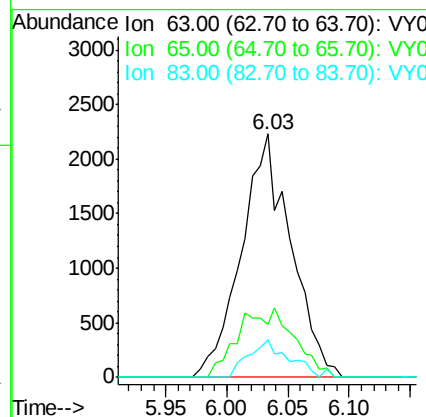
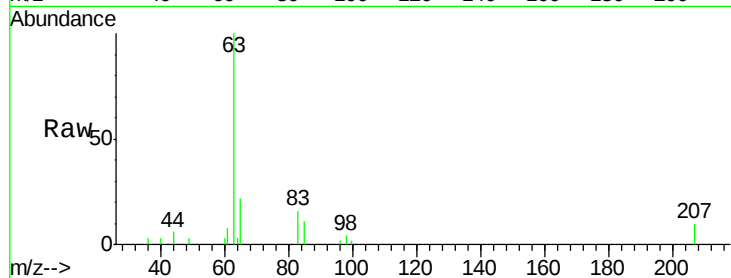
#19
 1,1-Dichloroethane
 Concen: 1.177 ug/L
 RT: 6.03 min Scan# 691
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion:	63	Resp:	6284
Ion	Ratio	Lower	Upper
63	100		
65	21.9	20.4	38.0
83	15.6	8.6	16.0

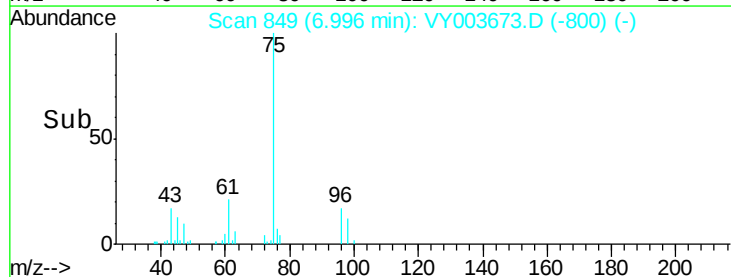
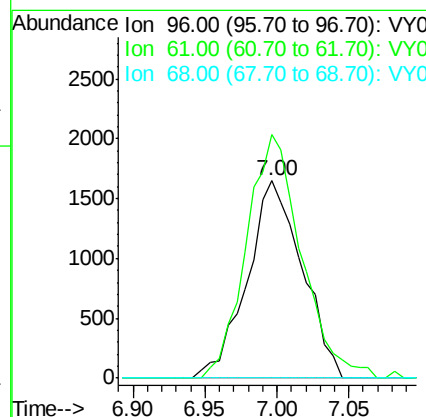
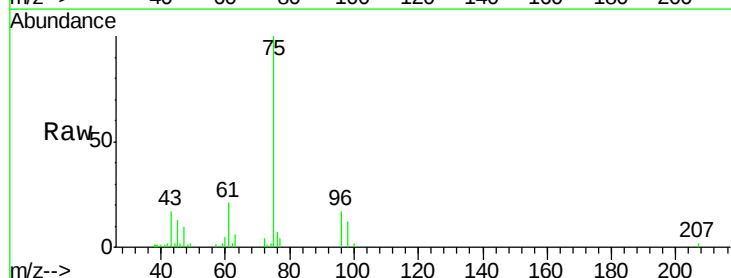
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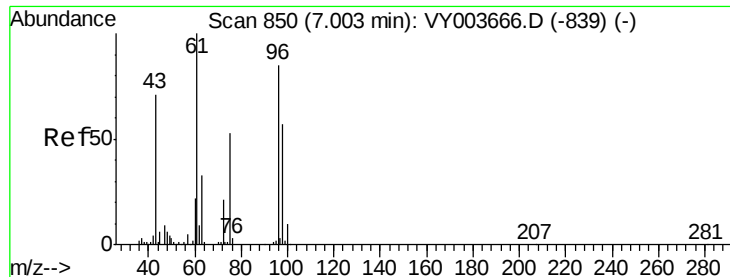
MMDadoda
 12/8/2020 5:06:32 PM



#20
 cis-1,2-Dichloroethene
 Concen: 1.267 ug/L
 RT: 7.00 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion:	96	Resp:	4362
Ion	Ratio	Lower	Upper
96	100		
61	123.4	96.3	178.9
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 2.759 ug/L

RT: 7.00 min Scan# 849

Delta R.T. -0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 43 Resp: 4090

Ion Ratio Lower Upper

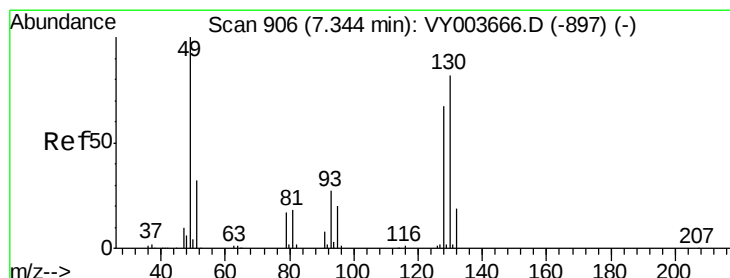
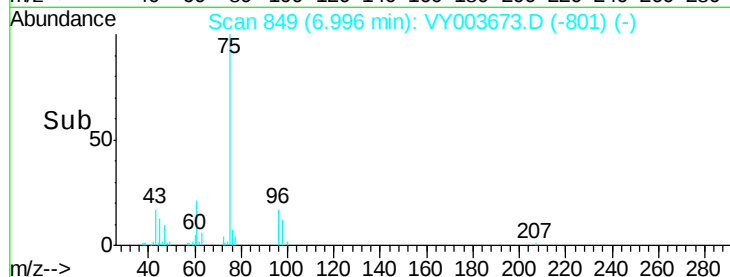
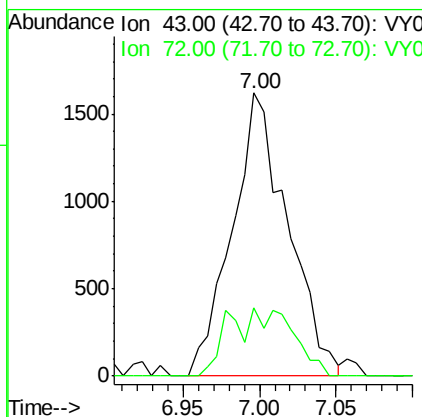
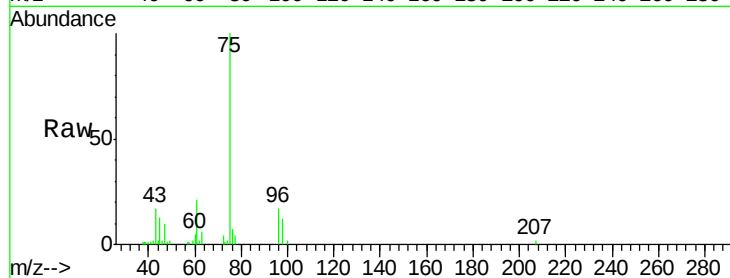
43 100

72 5.9 10.8 32.4#

Manual Integrations
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#23

Bromochloromethane

Concen: 1.142 ug/L

RT: 7.34 min Scan# 906

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Tgt Ion: 128 Resp: 1957

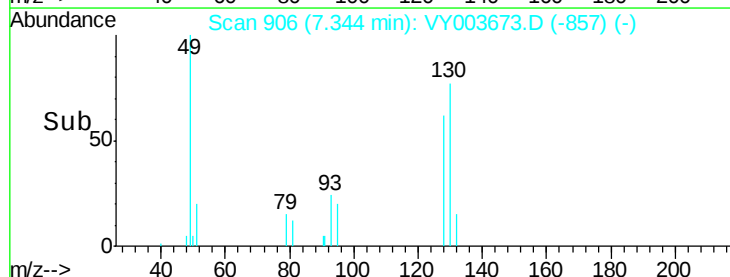
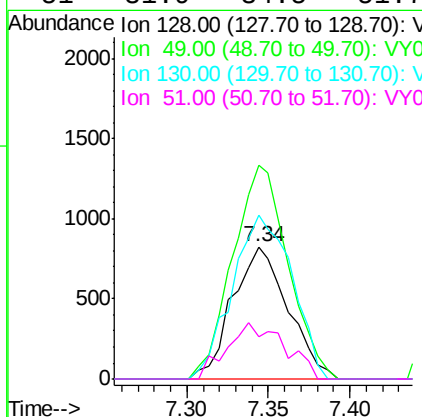
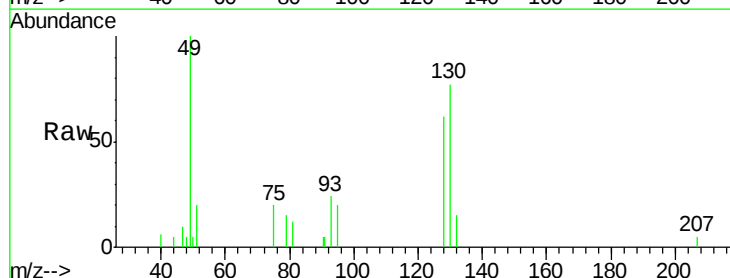
Ion Ratio Lower Upper

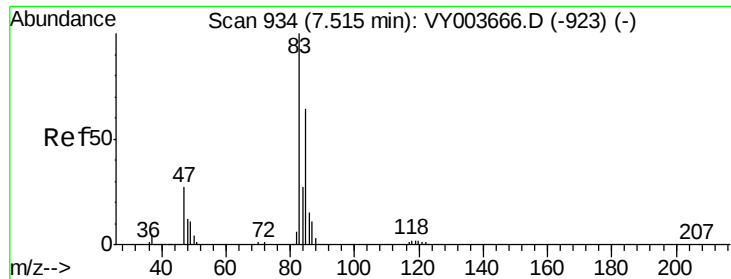
128 100

49 161.6 100.8 187.2

130 123.9 78.2 145.2

51 31.9 34.5 51.7#





#25

Chloroform

Concen: 1.348 ug/L

RT: 7.52 min Scan# 935

Delta R.T. 0.01 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 83 Resp: 7345

Ion Ratio Lower Upper

83 100

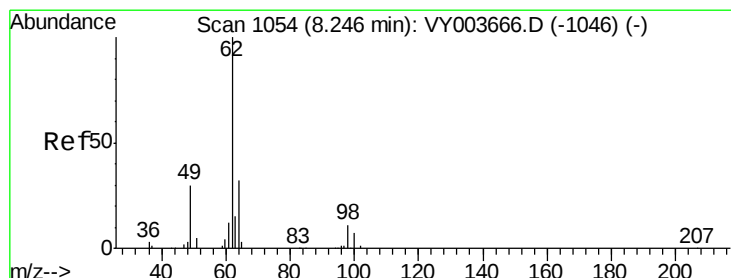
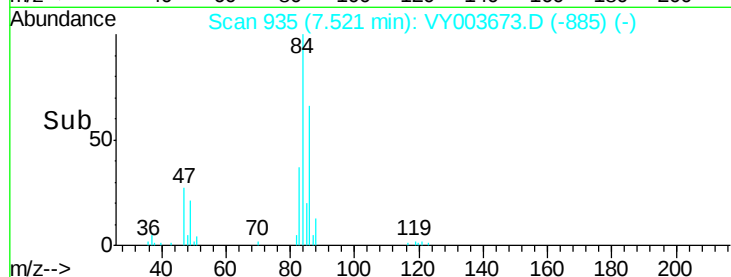
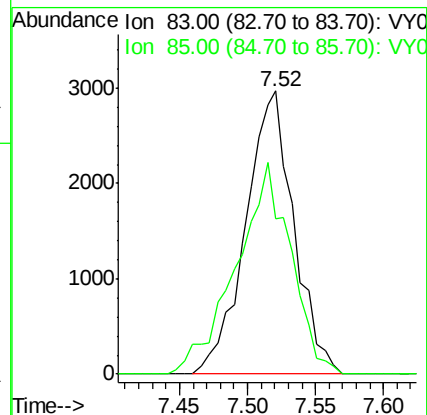
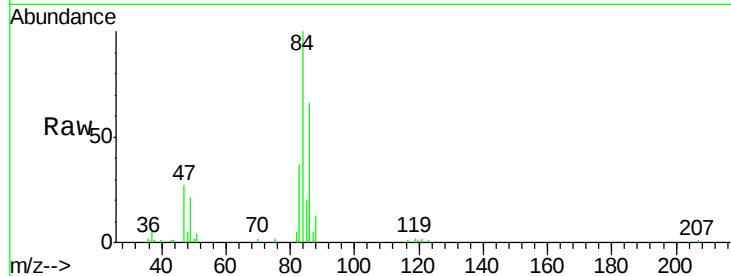
85 54.8 46.6 86.6

Manual Integrations

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#27

1,2-Dichloroethane

Concen: 1.255 ug/L

RT: 8.25 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VY003673.D

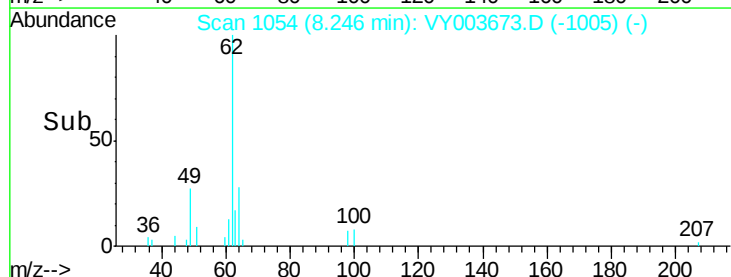
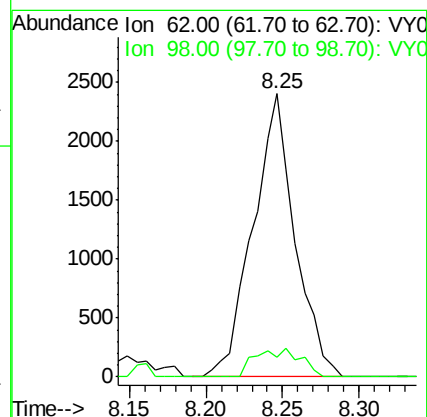
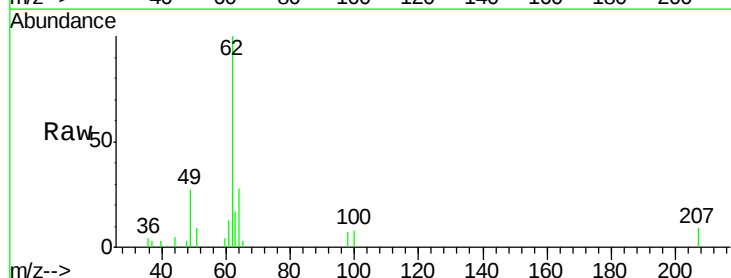
Acq: 07 Dec 2020 16:46

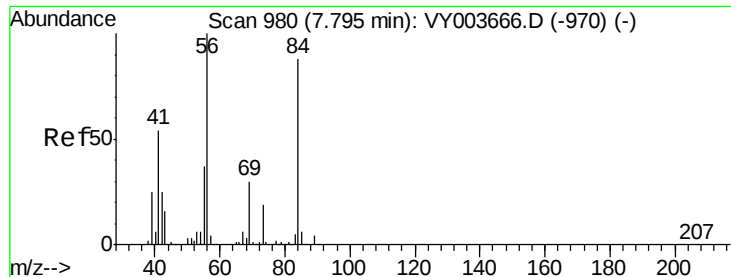
Tgt Ion: 62 Resp: 4591

Ion Ratio Lower Upper

62 100

98 6.8 8.3 12.5#





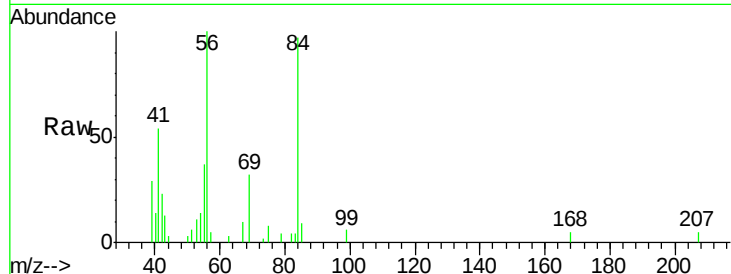
#29
Cyclohexane
Concen: 1.111 ug/L
RT: 7.79 min Scan# 979
Delta R.T. -0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.1	37.7
84	84.8	70.6	105.8

Manual Integrations
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MMDadoda
12/8/2020 5:06:32 PM

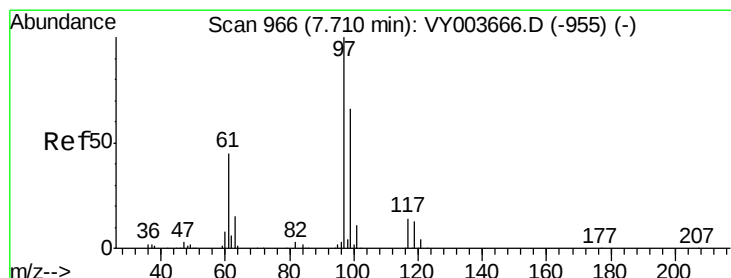
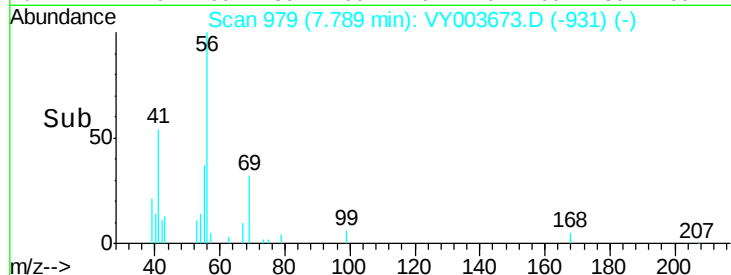
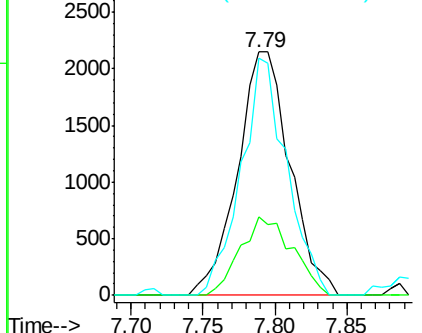


Abundance

Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#30
1,1,1-Trichloroethane
Concen: 1.169 ug/L
RT: 7.71 min Scan# 966
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

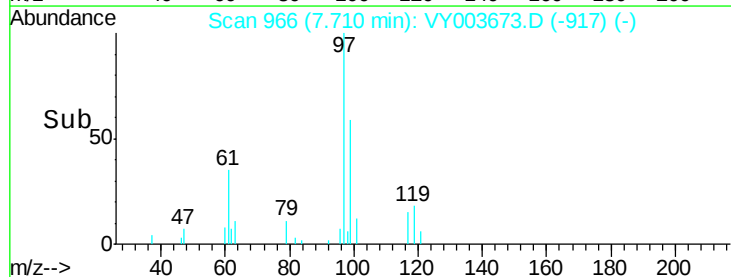
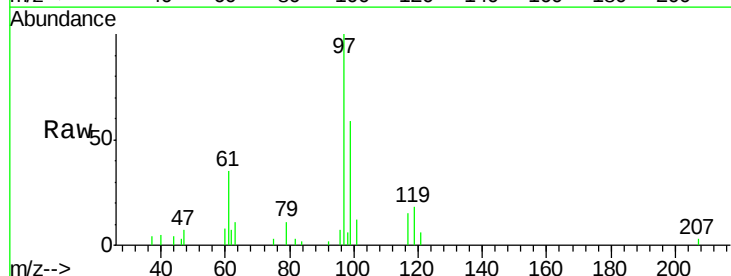
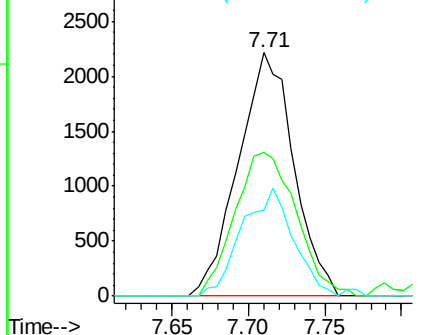
Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.0	76.4
61	41.2	34.6	51.8

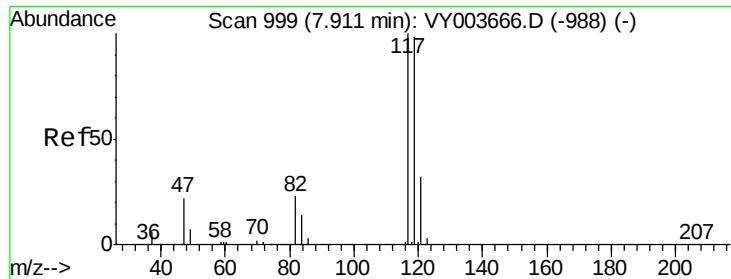
Abundance

Ion 97.00 (96.70 to 97.70): VY0

Ion 99.00 (98.70 to 99.70): VY0

Ion 61.05 (60.75 to 61.75): VY0





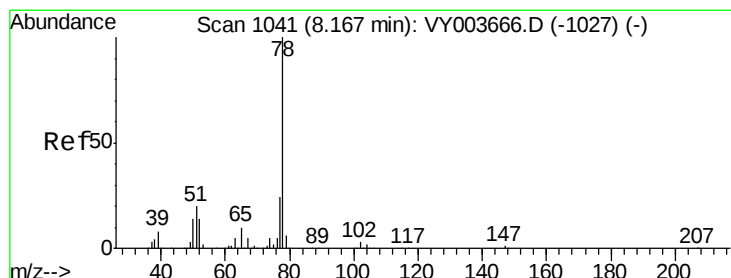
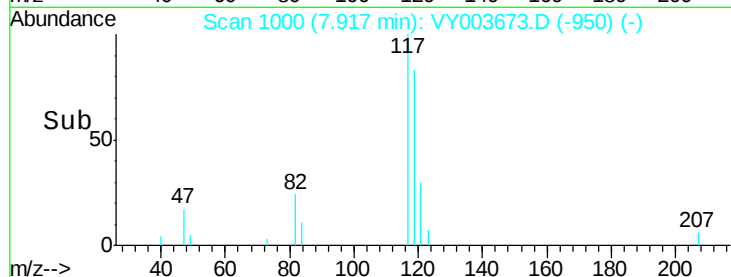
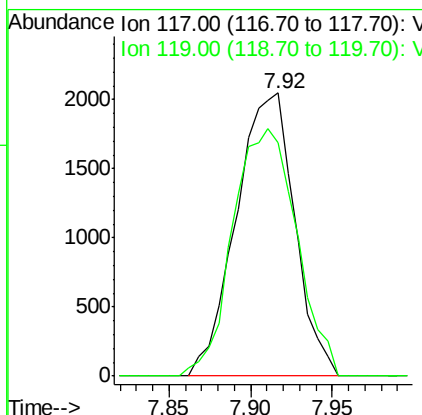
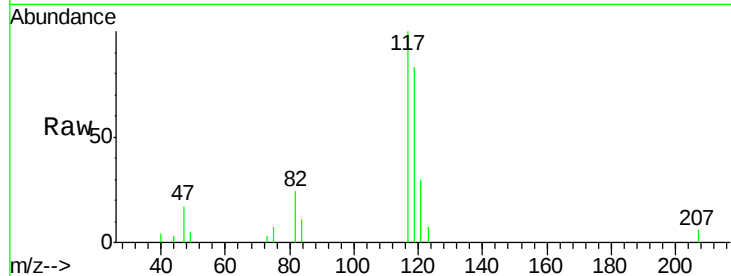
#31
Carbon tetrachloride
Concen: 1.181 ug/L
RT: 7.92 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:117 Resp: 5109
Ion Ratio Lower Upper
117 100
119 95.3 72.6 109.0

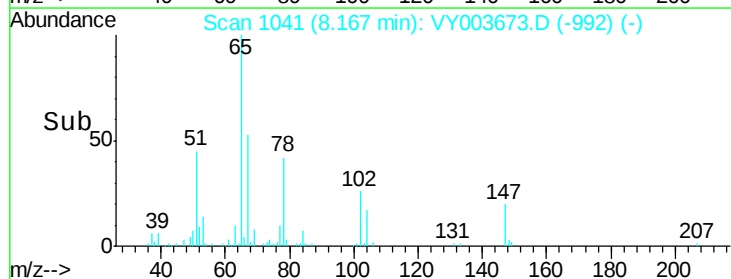
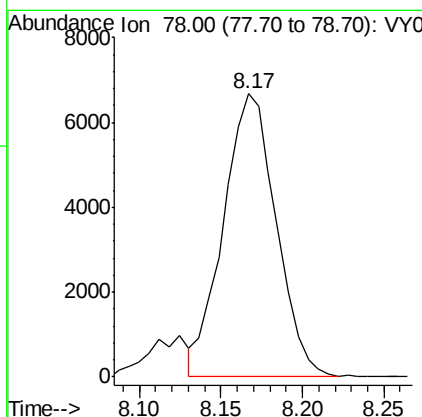
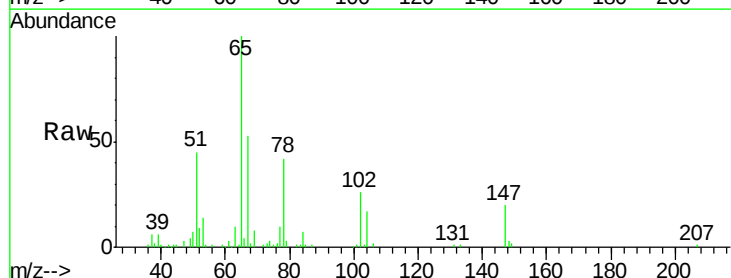
Manual Integrations
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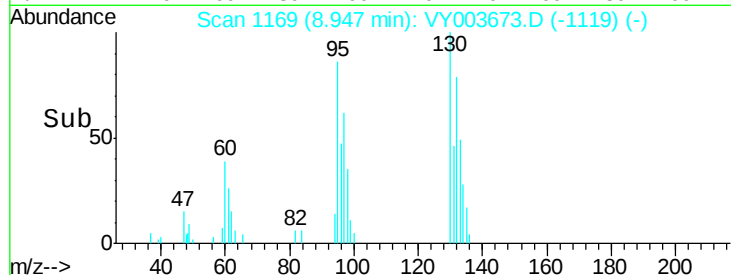
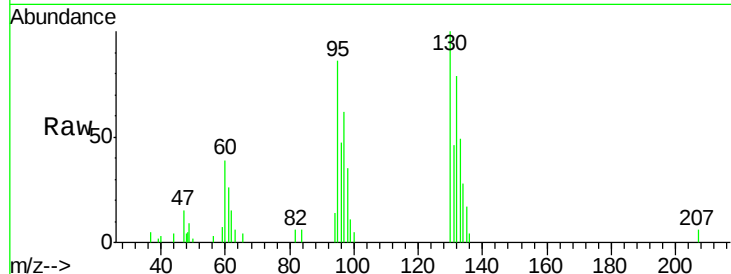
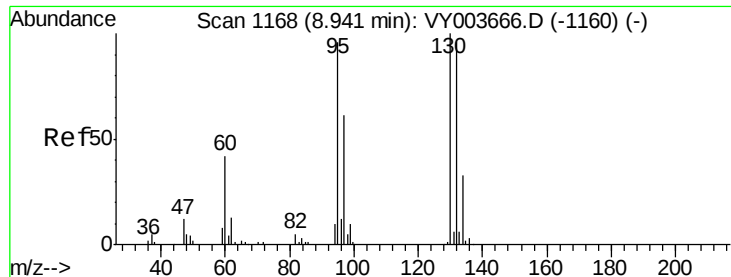
MMDadoda
12/8/2020 5:06:32 PM



#33
Benzene
Concen: 1.156 ug/L
RT: 8.17 min Scan# 1041
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion: 78 Resp: 15008





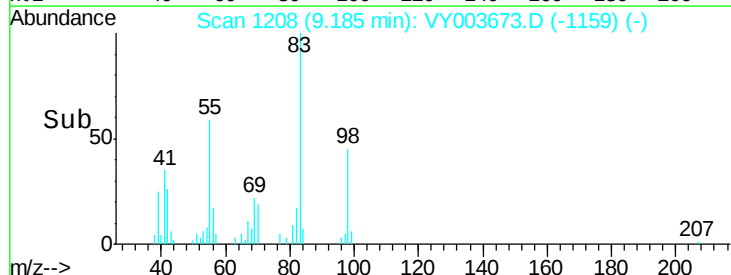
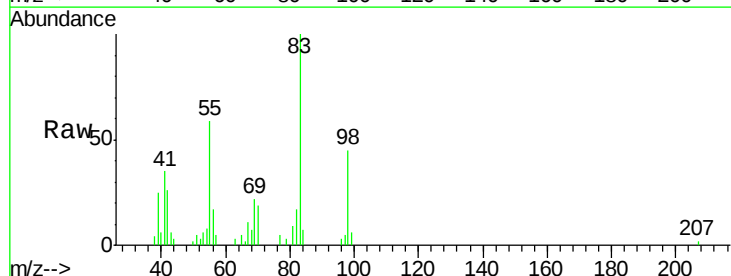
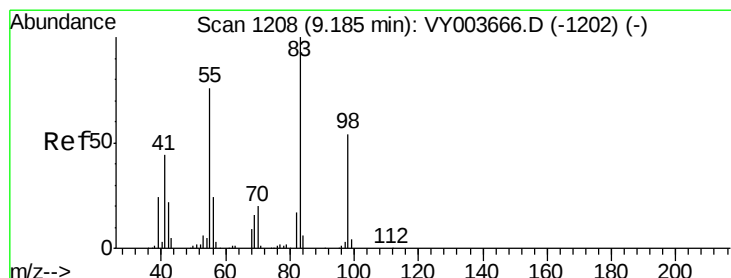
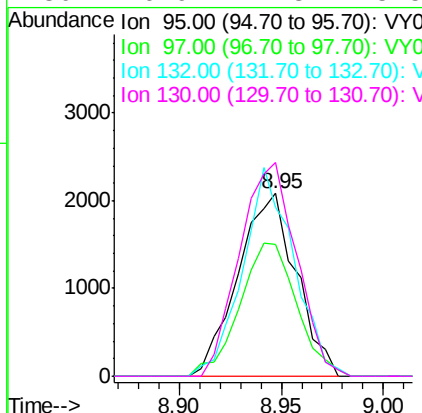
#34
Trichloroethene
Concen: 1.183 ug/L
RT: 8.95 min Scan# 1169
Delta R.T. 0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tot Ion:	95	Resp:	4133
Ion	Ratio	Lower	Upper
95	100		
97	72.2	46.5	86.5
132	92.3	67.5	125.3
130	116.9	77.3	143.5

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

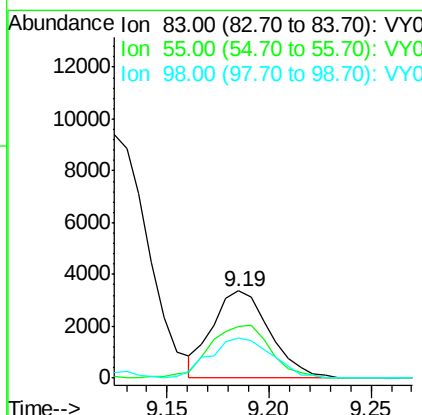
Manual Integrations
APPROVED

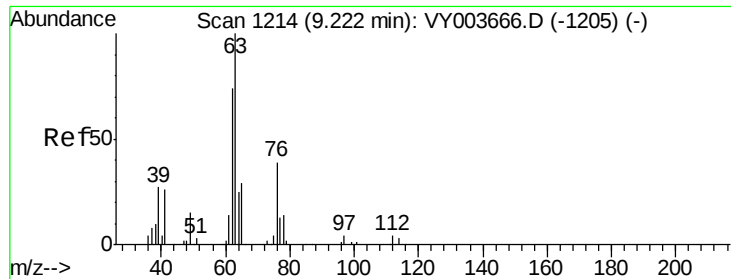
MMDadoda
12/8/2020 5:06:32 PM



#35
Methylcyclohexane
Concen: 1.187 ug/L
RT: 9.19 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion:	83	Resp:	6529
Ion	Ratio	Lower	Upper
83	100		
55	65.3	55.6	83.4
98	50.3	38.6	58.0





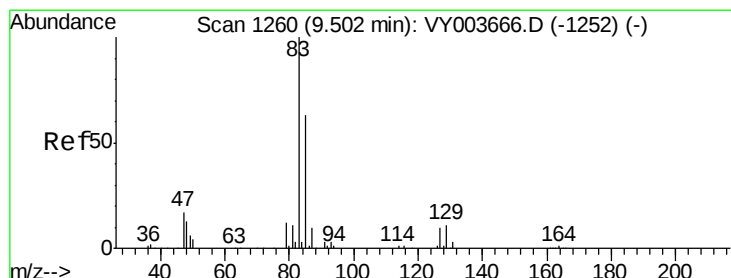
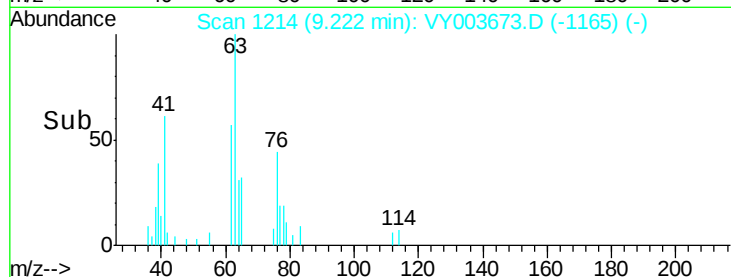
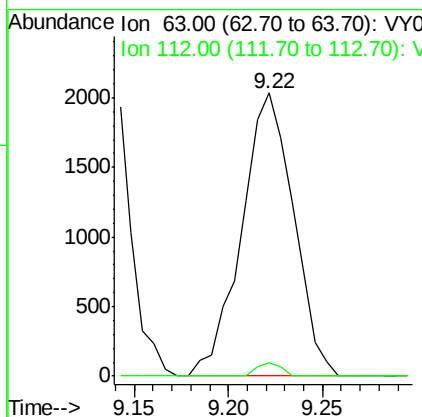
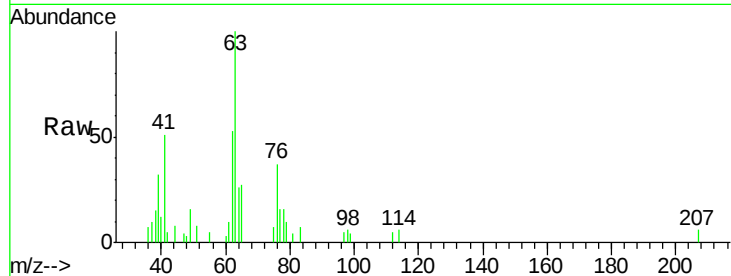
#37
 1,2-Dichloropropane
 Concen: 1.200 ug/L
 RT: 9.22 min Scan# 1214
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion: 63 Resp: 3892
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#

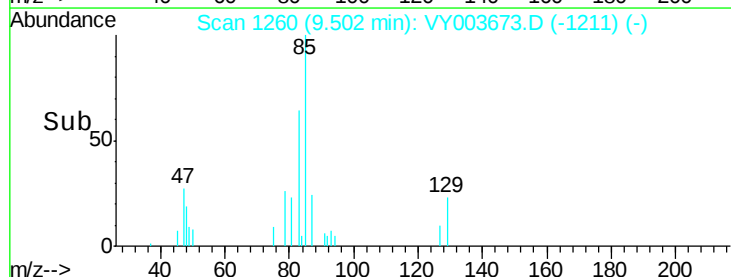
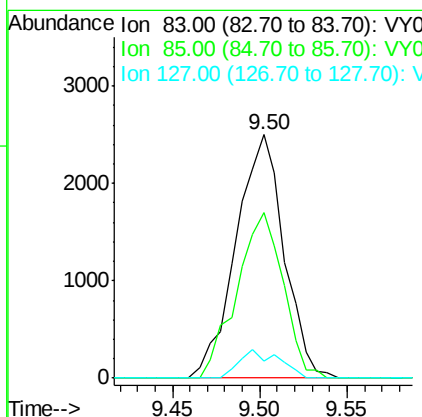
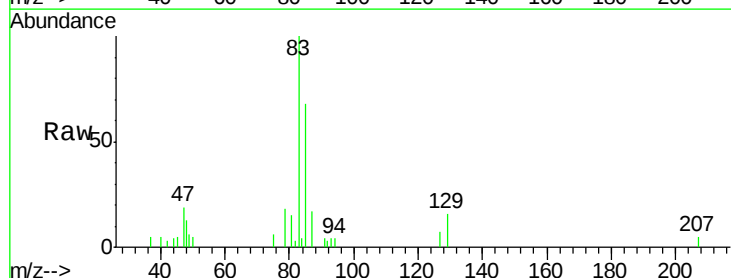
Manual Integrations
 APPROVED

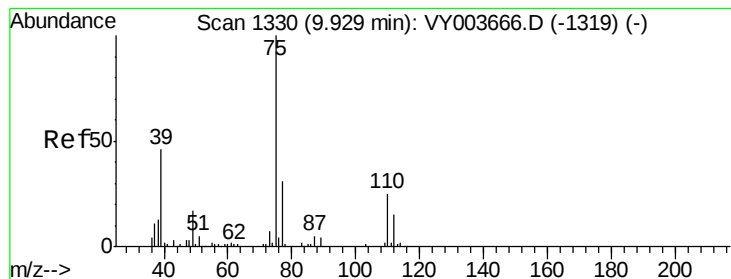
MMDadoda
 12/8/2020 5:06:32 PM



#38
 Bromodichloromethane
 Concen: 1.151 ug/L
 RT: 9.50 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion: 83 Resp: 4775
 Ion Ratio Lower Upper
 83 100
 85 68.1 39.3 73.1
 127 7.1 5.7 8.5





#39

cis-1,3-Dichloropropene

Concen: 1.112 ug/L

RT: 9.93 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Tot Ion: 75 Resp: 5690

Ion Ratio Lower Upper

75 100

77 31.3 23.2 43.2

Instrument :

MSVOA_Y

ClientSampleId :

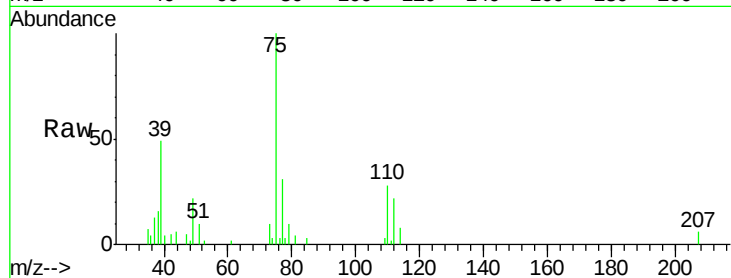
MDL-SOIL-06

Manual Integrations

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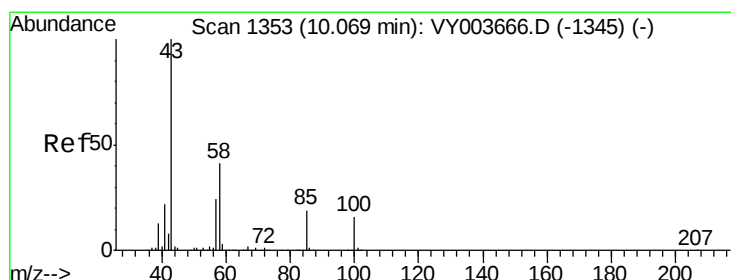
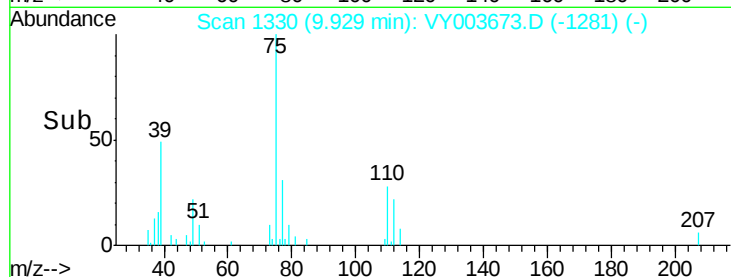
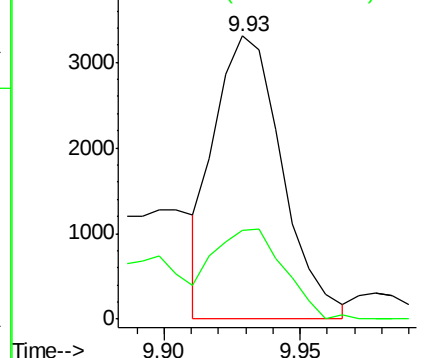
MMDadoda

12/8/2020 5:06:32 PM



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#40

4-Methyl-2-pentanone

Concen: 2.502 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

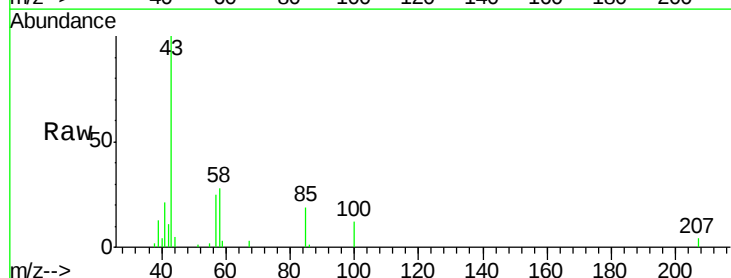
Tgt Ion: 43 Resp: 7346

Ion Ratio Lower Upper

43 100

58 38.1 32.6 48.8

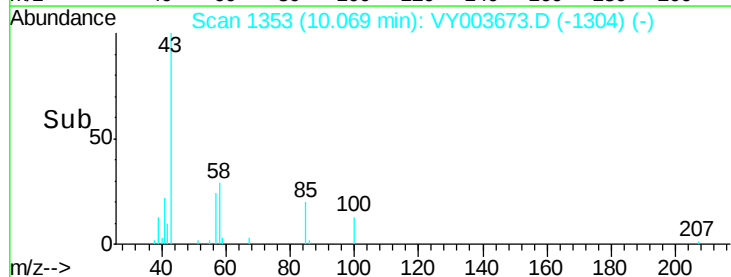
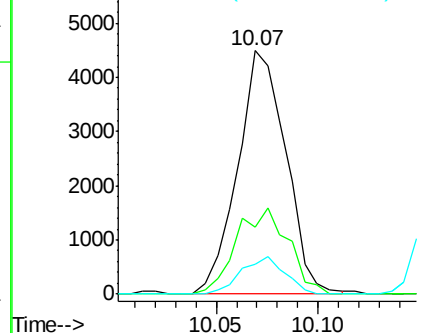
100 14.0 13.1 19.7

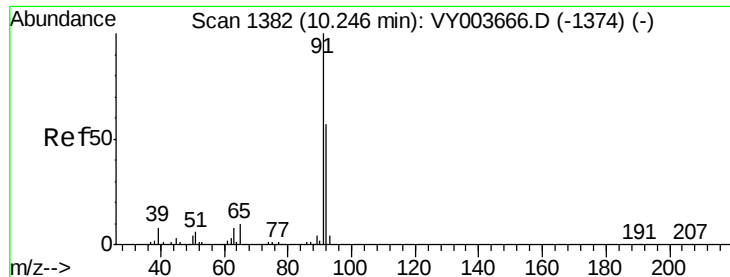


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#42

Toluene

Concen: 1.205 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 91 Resp: 16661

Ion Ratio Lower Upper

91 100

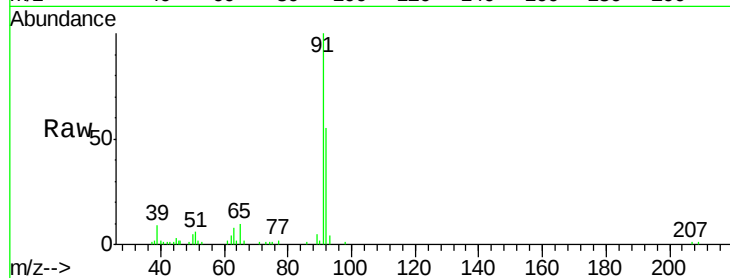
92 54.8 39.5 73.3

Manual Integrations

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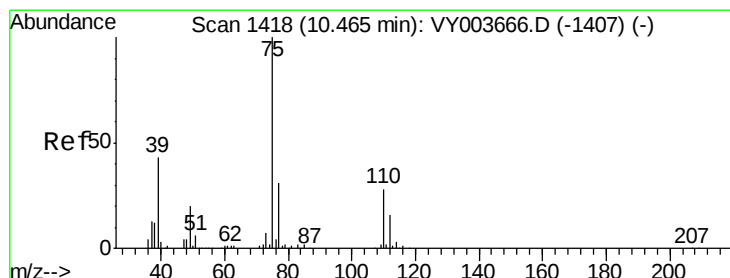
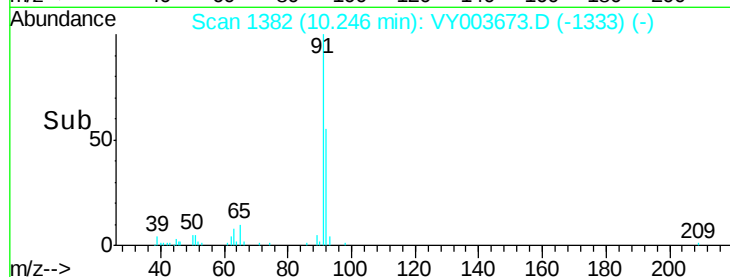
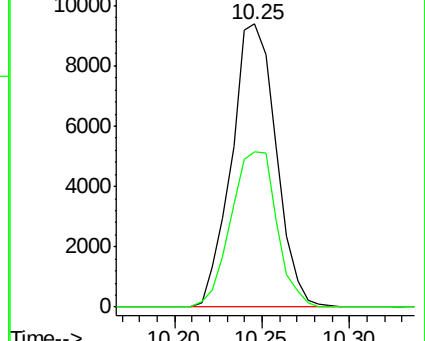
MMDadoda

12/8/2020 5:06:32 PM



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0



#44

trans-1,3-Dichloropropene

Concen: 1.519 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. -0.00 min

Lab File: VY003673.D

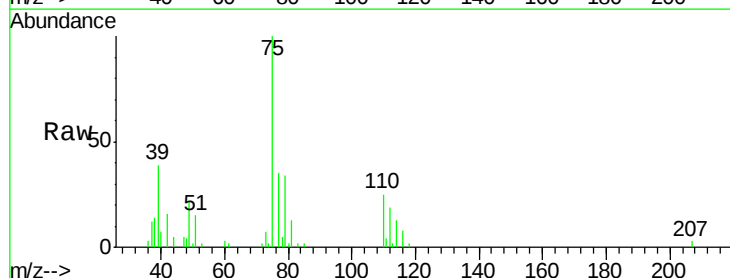
Acq: 07 Dec 2020 16:46

Tgt Ion: 75 Resp: 7239

Ion Ratio Lower Upper

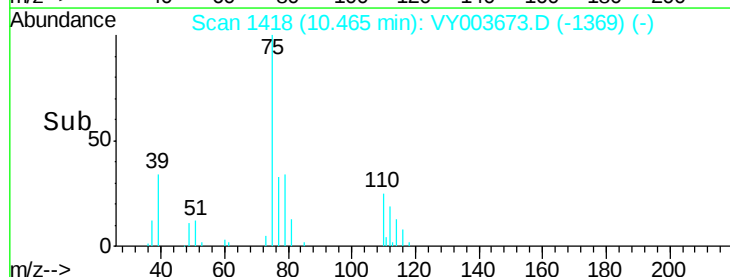
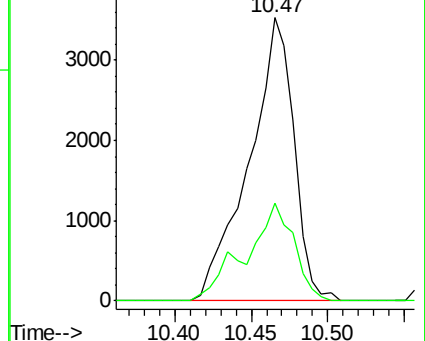
75 100

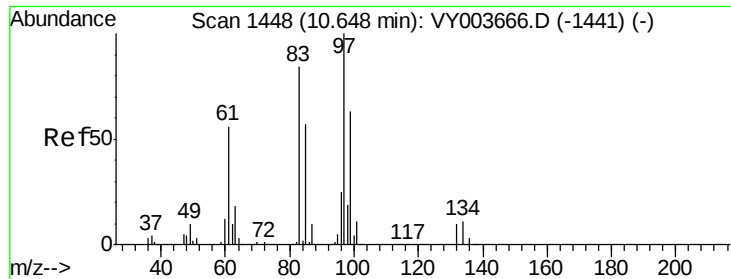
77 34.5 24.7 45.9



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0





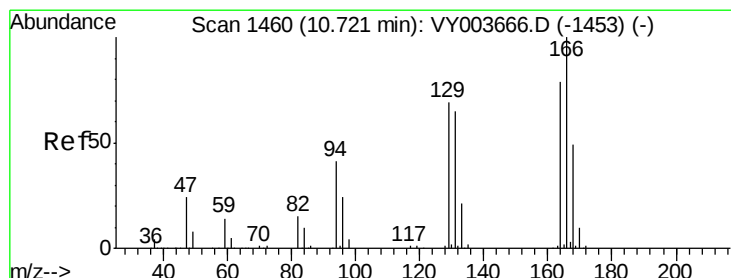
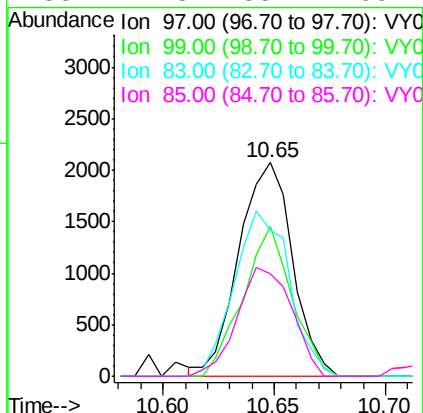
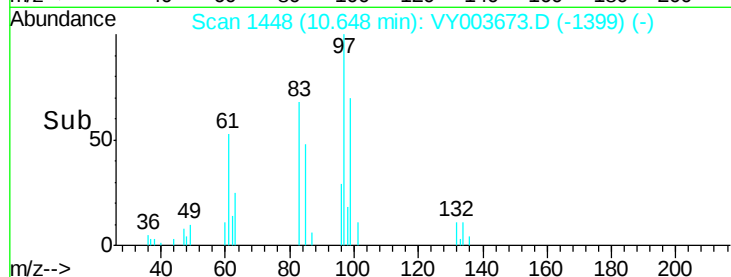
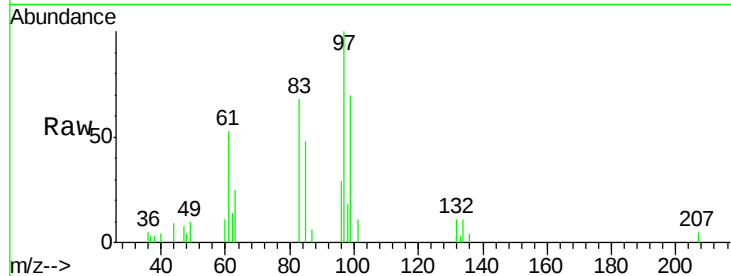
#45
1,1,2-Trichloroethane
Concen: 1.229 ug/L
RT: 10.65 min Scan# 1448
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:	97	Resp:	3481
Ion	Ratio	Lower	Upper
97	100		
99	70.4	48.2	89.6
83	68.5	64.8	120.3
85	47.8	35.1	65.1

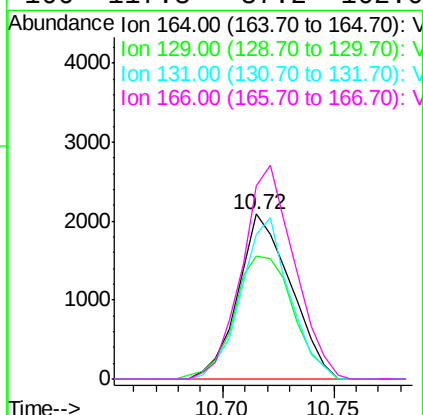
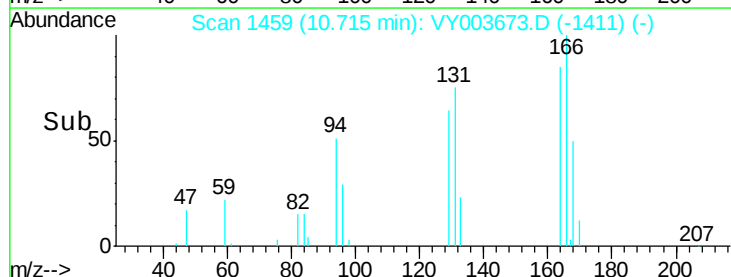
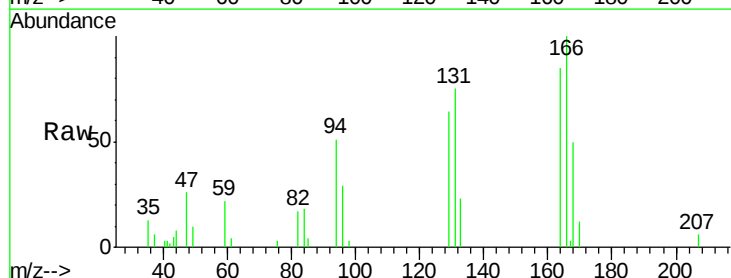
Manual Integrations
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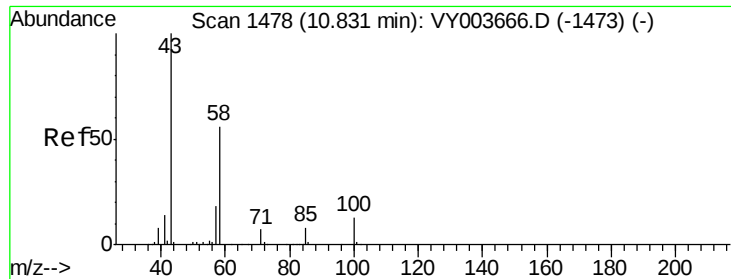
MMDadoda
12/8/2020 5:06:32 PM



#46
Tetrachloroethene
Concen: 1.227 ug/L
RT: 10.72 min Scan# 1459
Delta R.T. -0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion:	164	Resp:	3444
Ion	Ratio	Lower	Upper
164	100		
129	74.6	53.4	99.2
131	87.8	60.8	112.8
166	117.3	87.2	162.0





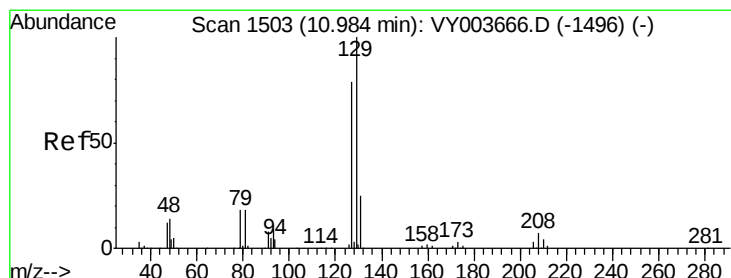
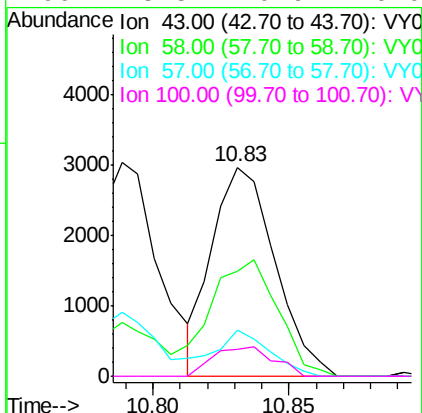
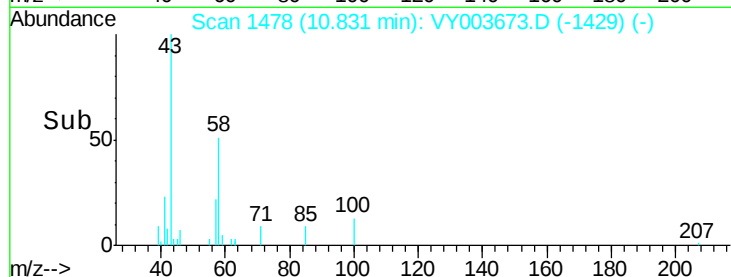
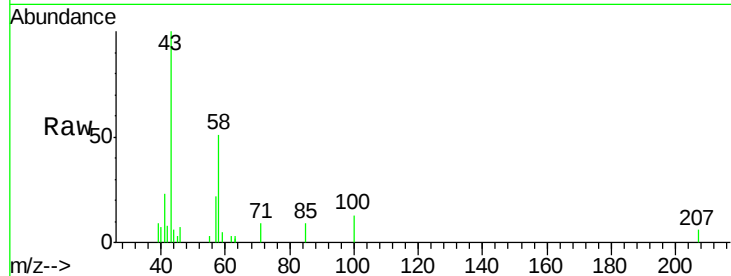
#48
2-Hexanone
Concen: 2.322 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:	43	Resp:	4755
Ion	Ratio	Lower	Upper
43	100		
58	60.2	44.3	66.5
57	20.9	12.6	19.0
100	13.5	10.6	16.0

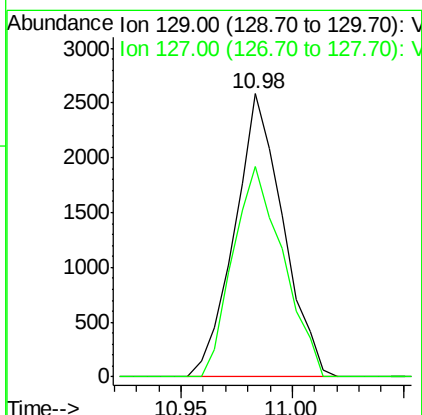
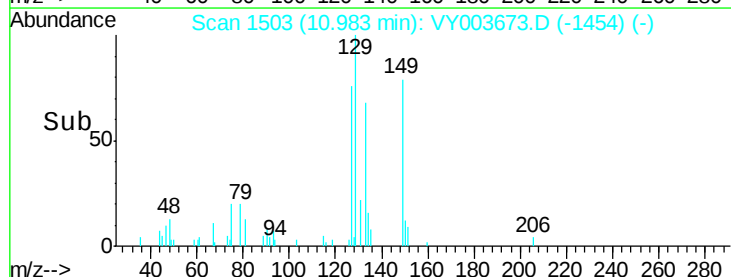
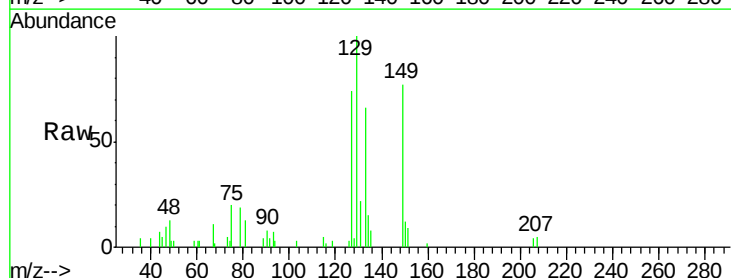
Manual Integrations
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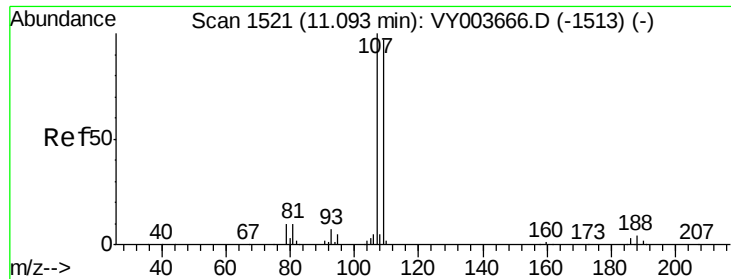
MMDadoda
12/8/2020 5:06:32 PM



#49
Dibromochloromethane
Concen: 1.201 ug/L
RT: 10.98 min Scan# 1503
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion:	129	Resp:	3920
Ion	Ratio	Lower	Upper
129	100		
127	74.4	48.0	89.2





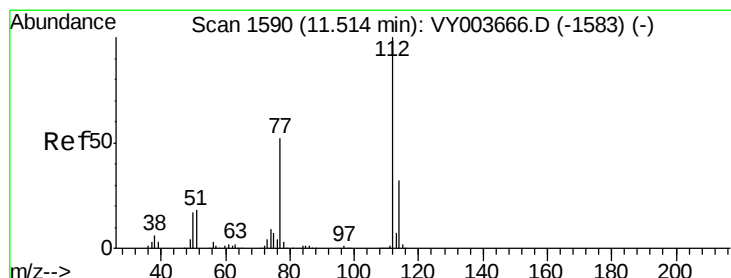
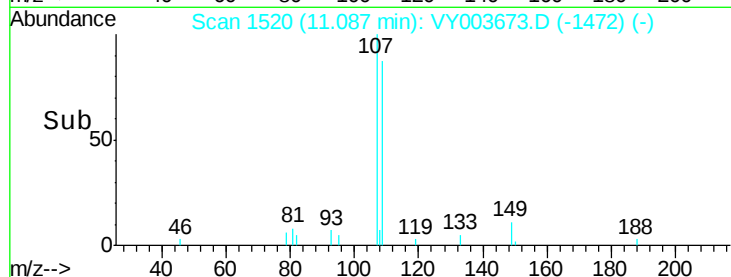
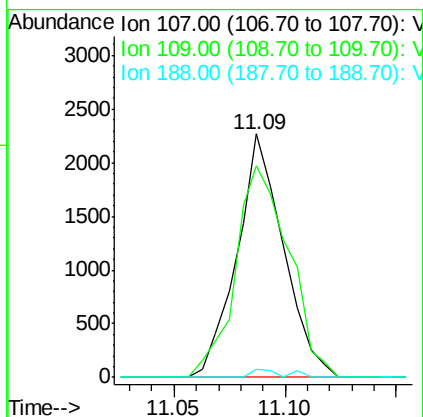
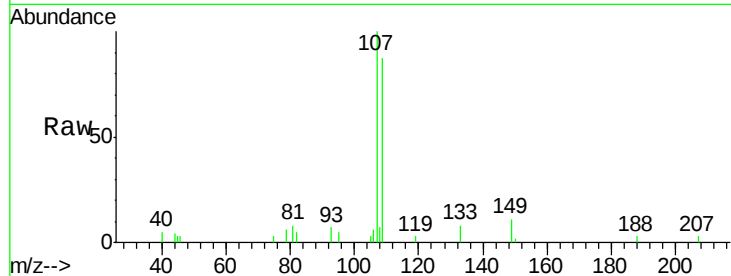
#50
 1,2-Dibromoethane
 Concen: 1.208 ug/L
 RT: 11.09 min Scan# 1520
 Delta R.T. -0.01 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	86.7	61.9	114.9	
188	3.4	2.1	3.1#	

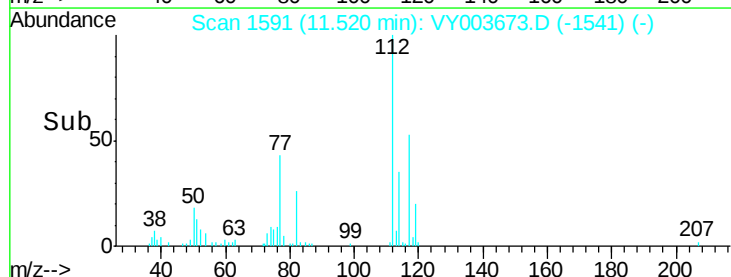
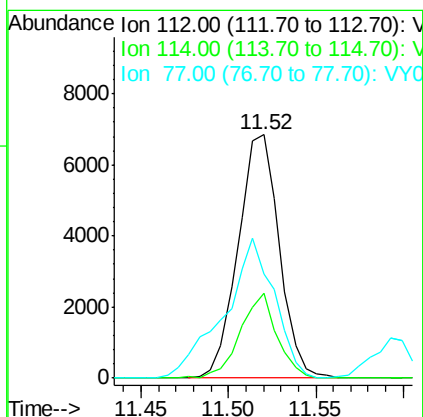
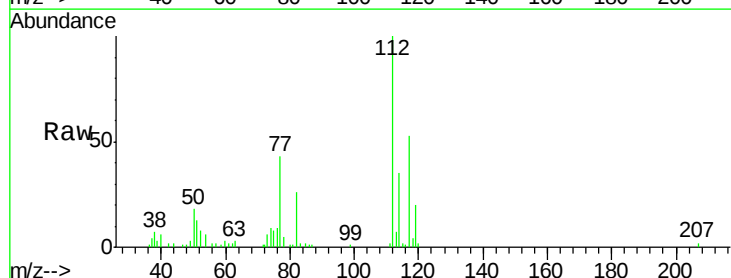
Manual Integrations
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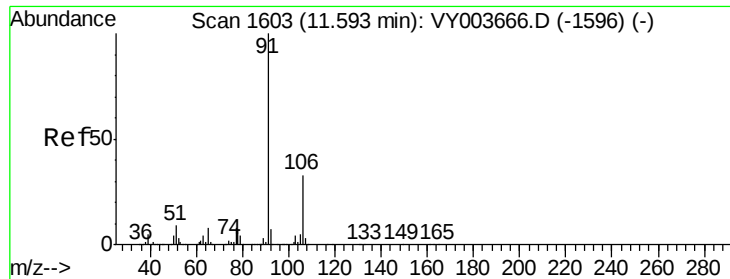
MMDadoda
 12/8/2020 5:06:32 PM



#51
 Chlorobenzene
 Concen: 1.230 ug/L
 RT: 11.52 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	34.9	22.0	40.8	
77	42.7	38.4	57.6	





#52

Ethylbenzene

Concen: 1.184 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion: 91 Resp: 17662

Ion Ratio Lower Upper

91 100

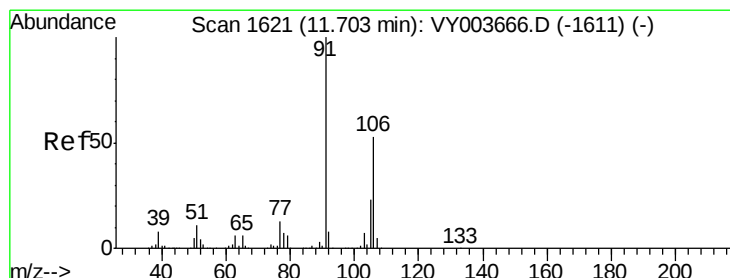
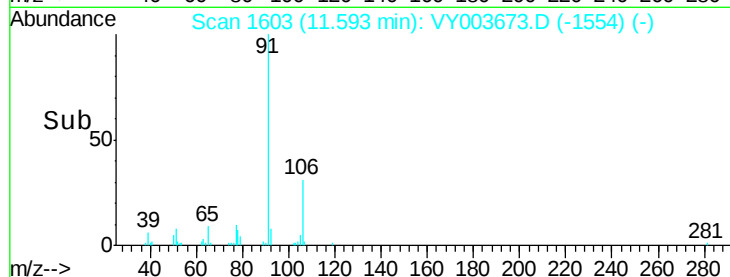
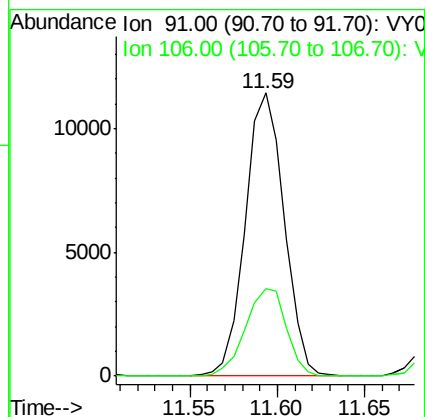
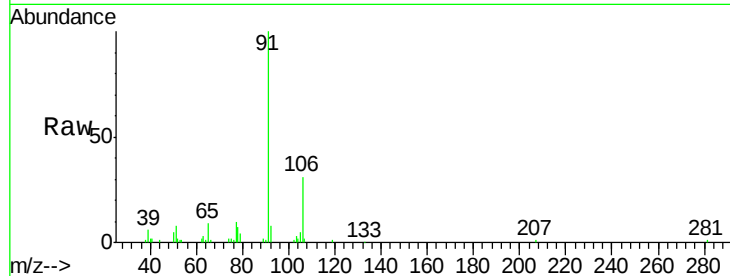
106 31.1 23.7 43.9

Manual Integrations

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MMDadoda

12/8/2020 5:06:32 PM



#53

m,p-Xylene

Concen: 1.235 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VY003673.D

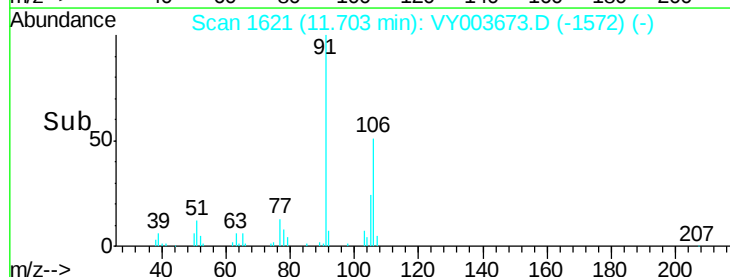
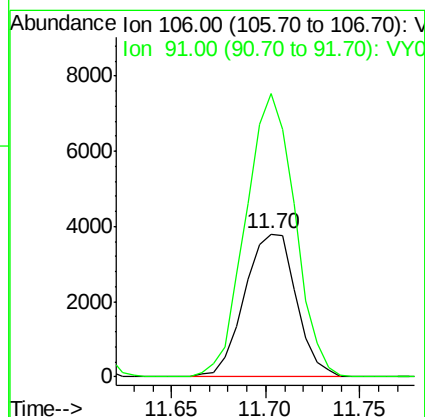
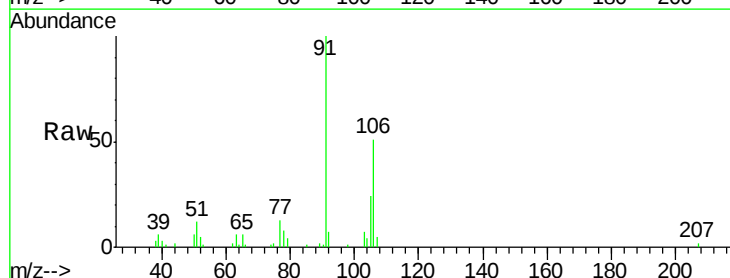
Acq: 07 Dec 2020 16:46

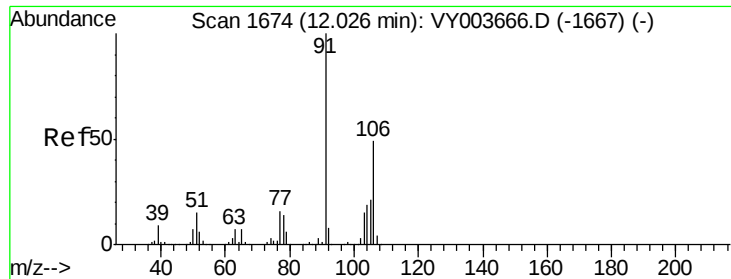
Tgt Ion: 106 Resp: 7201

Ion Ratio Lower Upper

106 100

91 197.9 132.7 246.5





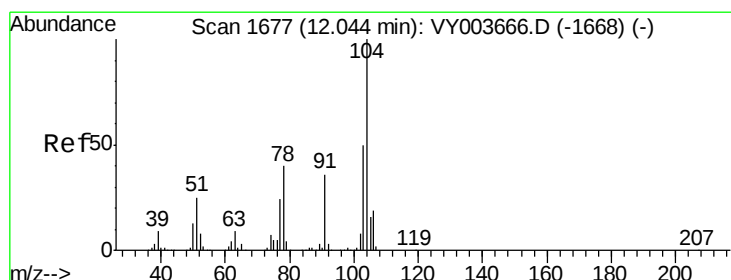
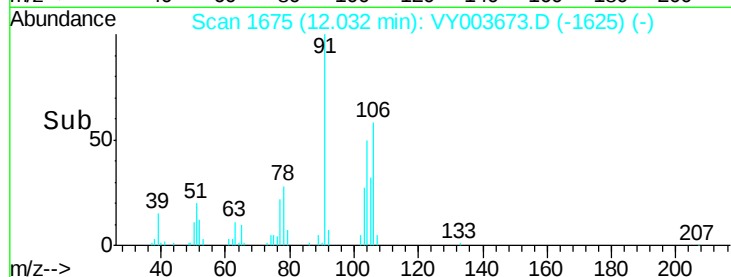
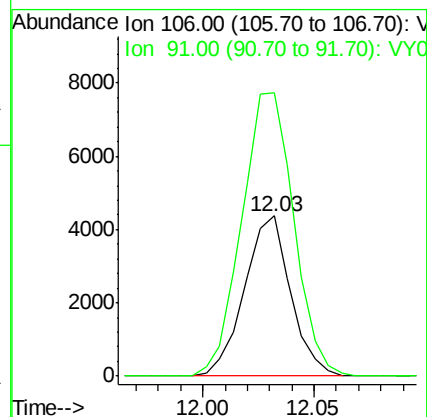
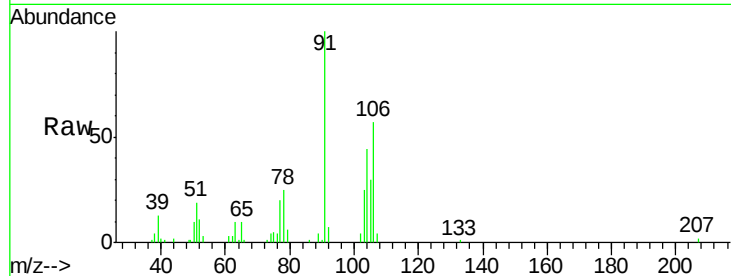
#54
o-Xylene
Concen: 1.133 ug/L
RT: 12.03 min Scan# 1675
Delta R.T. 0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion:106 Resp: 6314
Ion Ratio Lower Upper
106 100
91 176.6 141.7 263.1

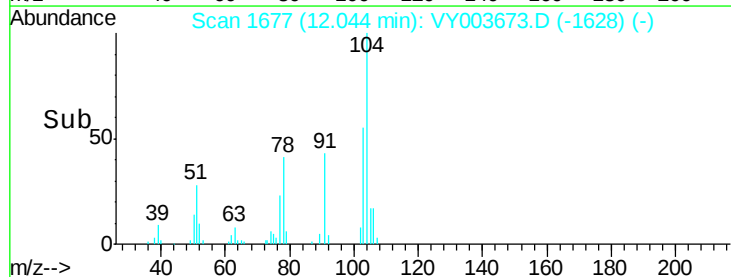
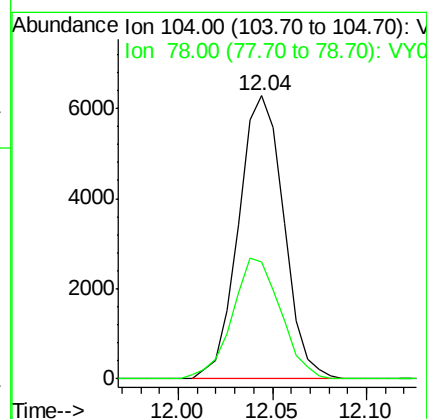
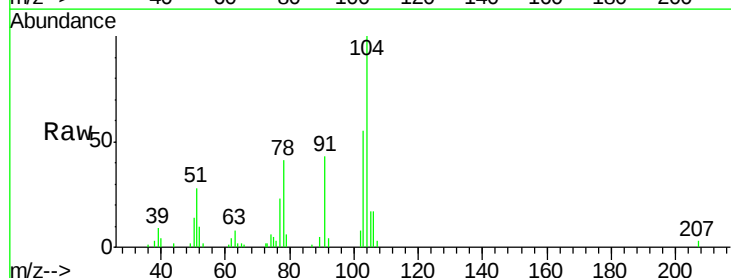
Manual Integrations
APPROVED

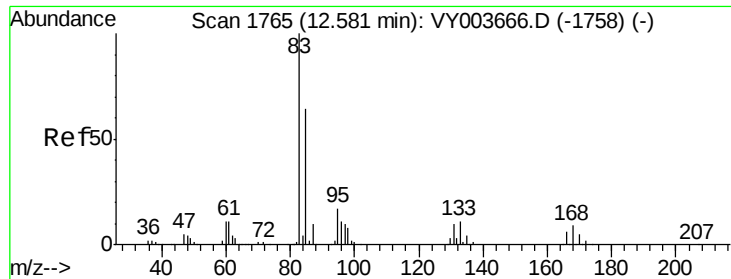
MMDadoda
12/8/2020 5:06:32 PM



#55
Styrene
Concen: 1.098 ug/L
RT: 12.04 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion:104 Resp: 10450
Ion Ratio Lower Upper
104 100
78 41.5 28.1 52.1





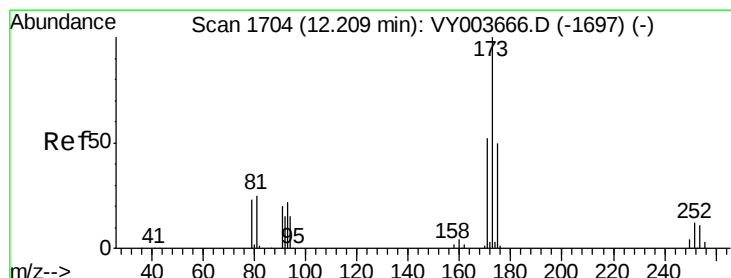
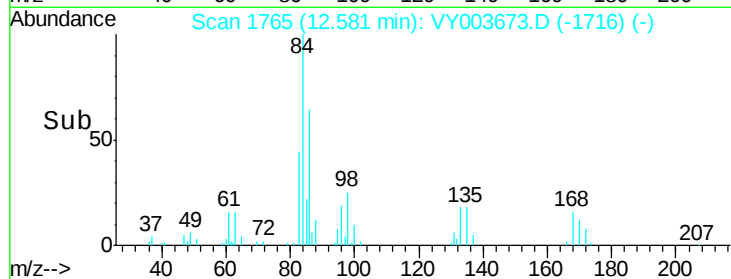
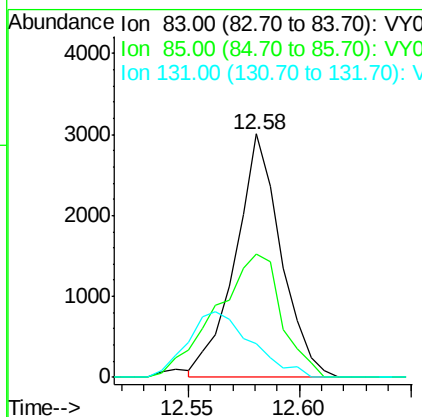
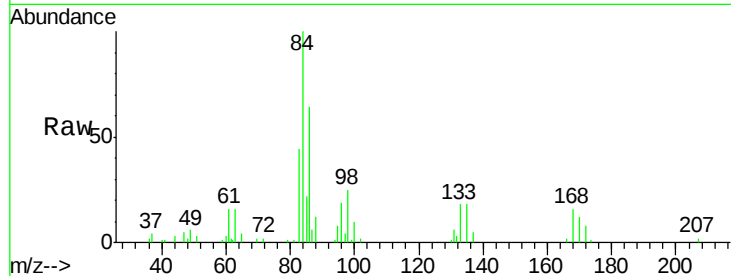
#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.398 ug/L
 RT: 12.58 min Scan# 1765
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
83	100		
85	50.5	46.4	86.2
131	13.6	8.0	12.0

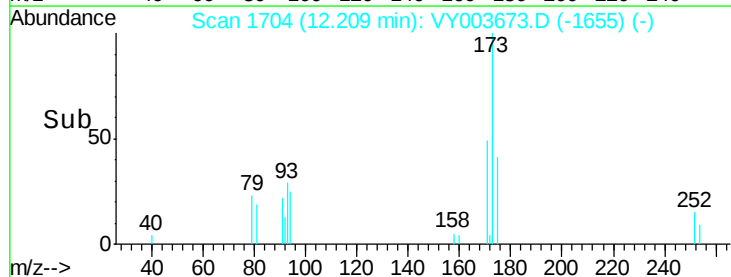
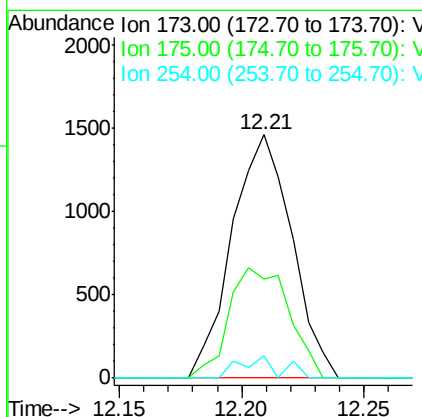
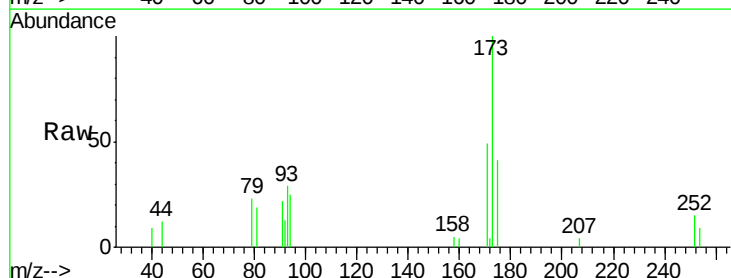
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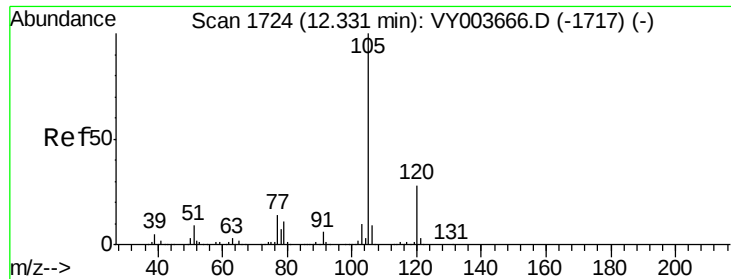
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#59
 Bromoform
 Concen: 1.131 ug/L
 RT: 12.21 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion	Ratio	Lower	Upper
173	100		
175	45.4	41.2	61.8
254	4.4	3.2	4.8





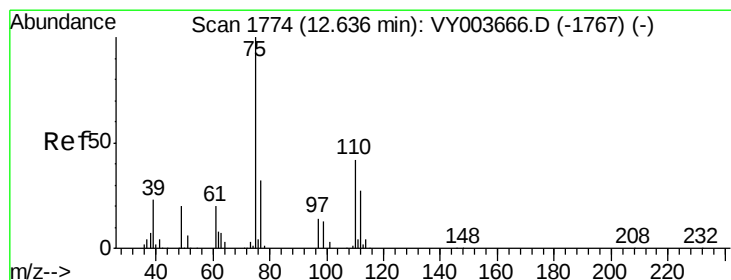
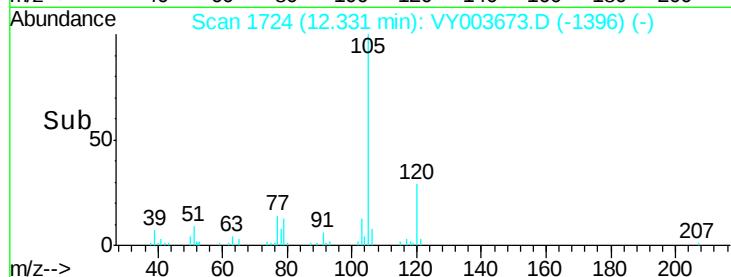
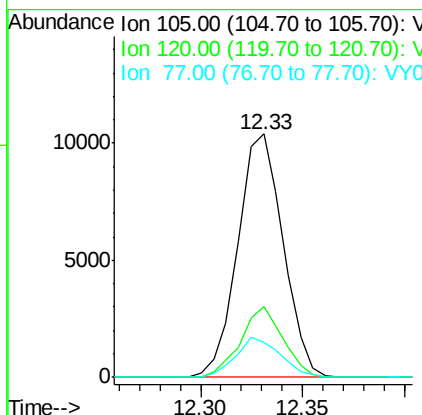
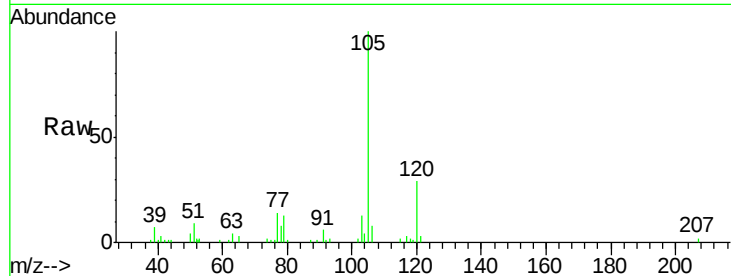
#60
Isopropylbenzene
Concen: 1.120 ug/L
RT: 12.33 min Scan# 1724
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.1	22.6	33.8
77	16.1	11.9	17.9

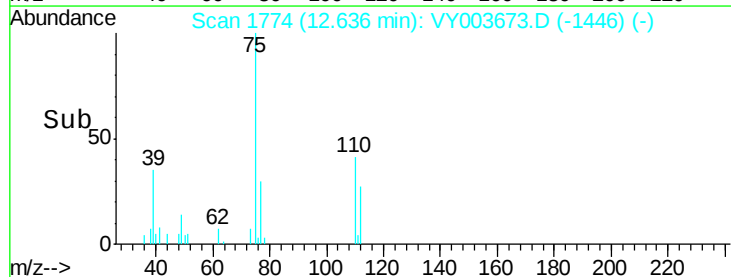
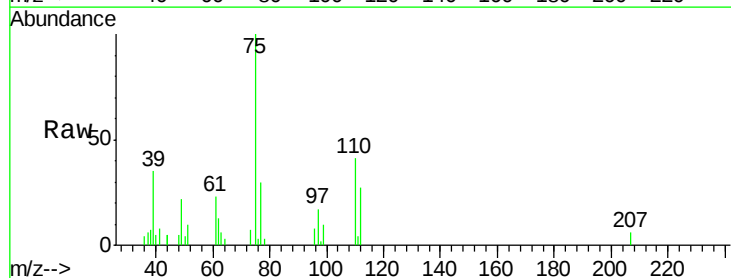
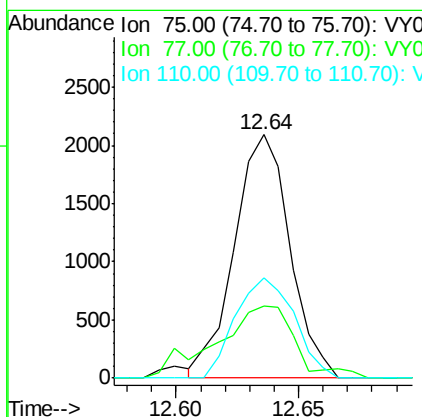
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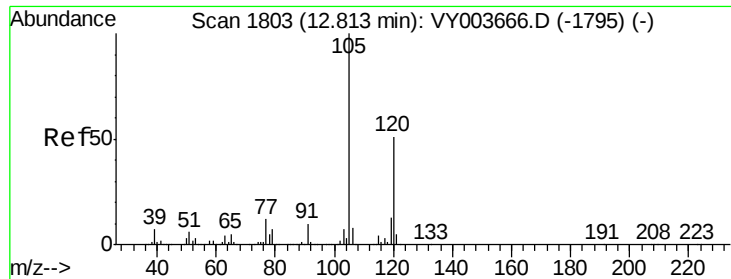
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#61
1,2,3-Trichloropropane
Concen: 1.258 ug/L
RT: 12.64 min Scan# 1774
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.8	29.0	43.6
110	43.5	33.3	49.9





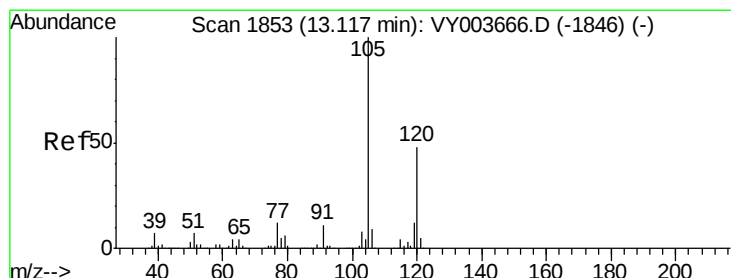
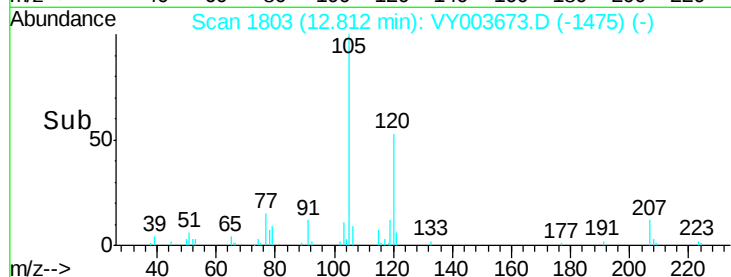
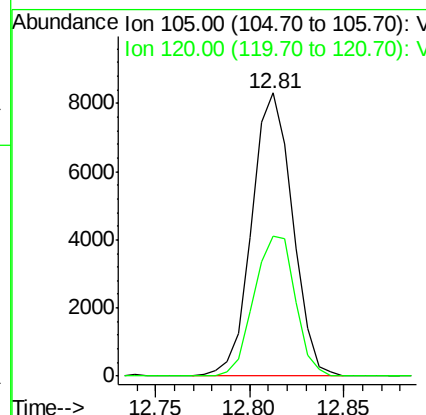
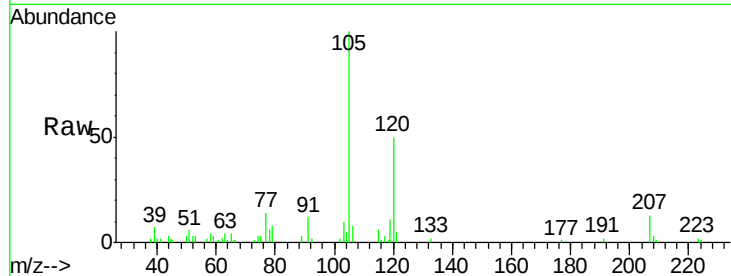
#62
 1,3,5-Trimethylbenzene
 Concen: 1.096 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion:105 Resp: 12449
 Ion Ratio Lower Upper
 105 100
 120 49.9 42.2 63.2

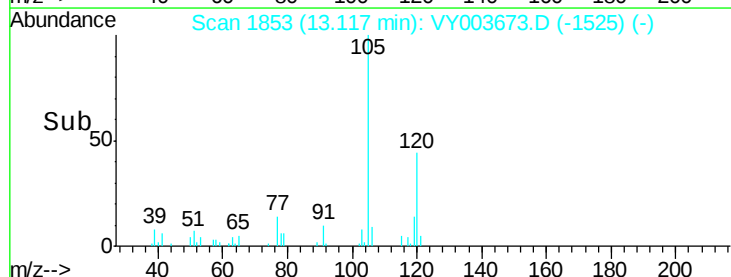
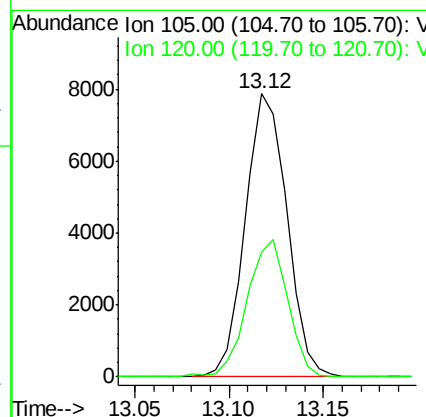
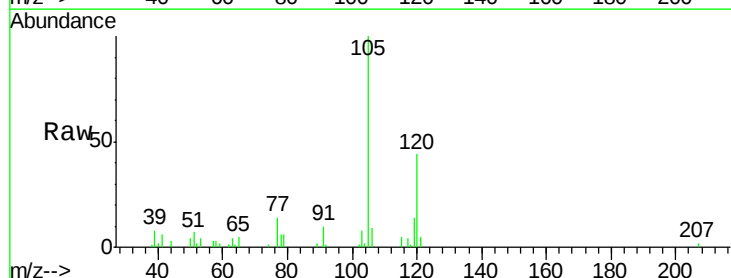
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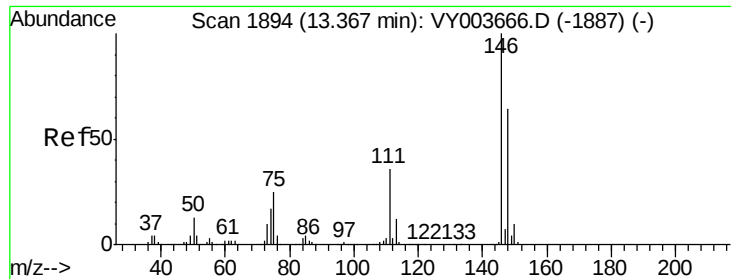
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.073 ug/L
 RT: 13.12 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion:105 Resp: 12102
 Ion Ratio Lower Upper
 105 100
 120 46.9 39.0 58.6





#64

1,3-Dichlorobenzene

Concen: 1.237 ug/L

RT: 13.37 min Scan# 1894

Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Instrument :

MSVOA_Y

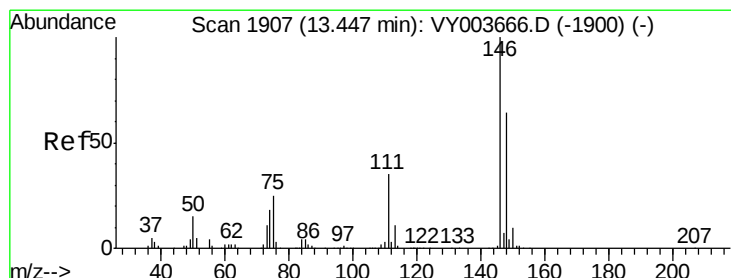
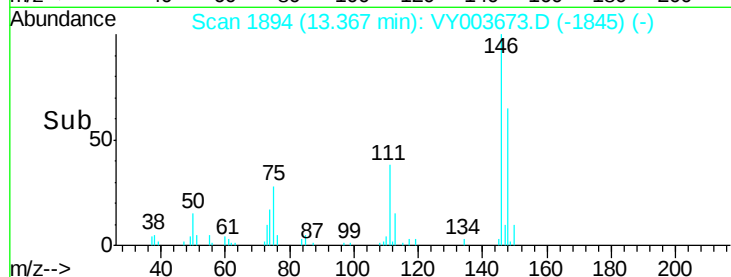
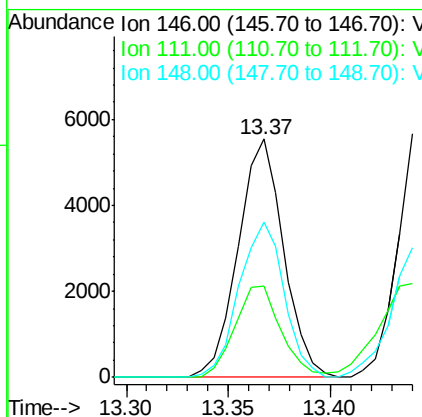
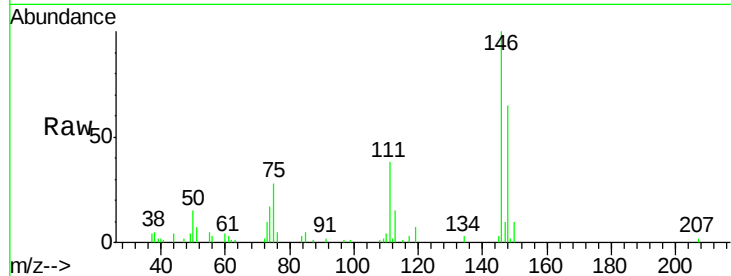
ClientSampleId :

MDL-SOIL-06

Tot Ion:	146	Resp:	8588
Ion Ratio	Lower	Upper	
146	100		
111	38.2	25.3	47.1
148	67.7	41.4	76.8

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#65

1,4-Dichlorobenzene

Concen: 1.321 ug/L

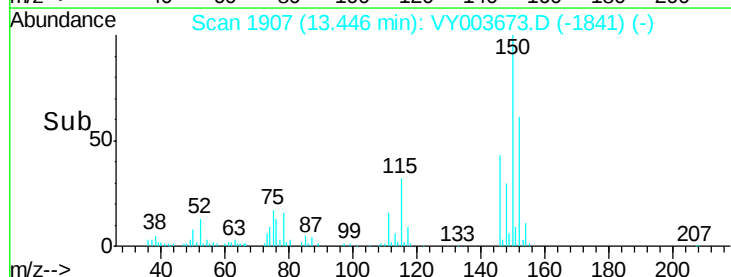
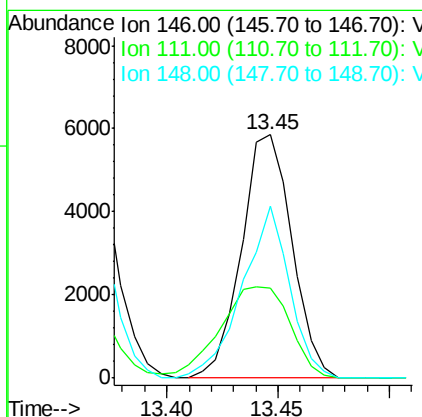
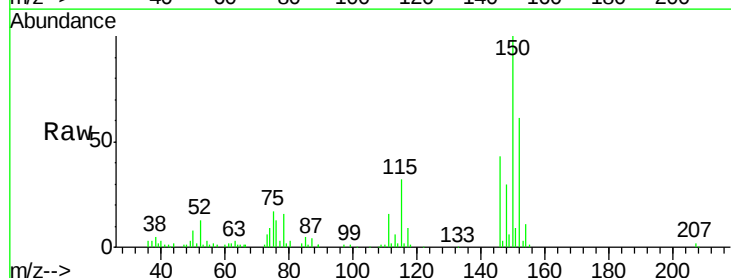
RT: 13.45 min Scan# 1907

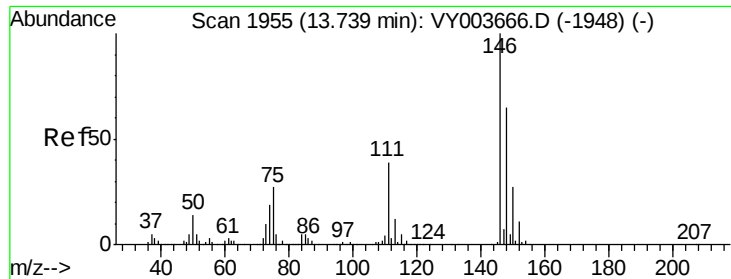
Delta R.T. -0.00 min

Lab File: VY003673.D

Acq: 07 Dec 2020 16:46

Tgt Ion:	146	Resp:	9285
Ion Ratio	Lower	Upper	
146	100		
111	37.2	26.9	50.1
148	70.6	44.9	83.3





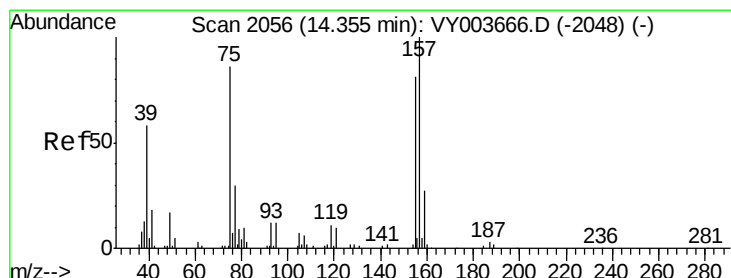
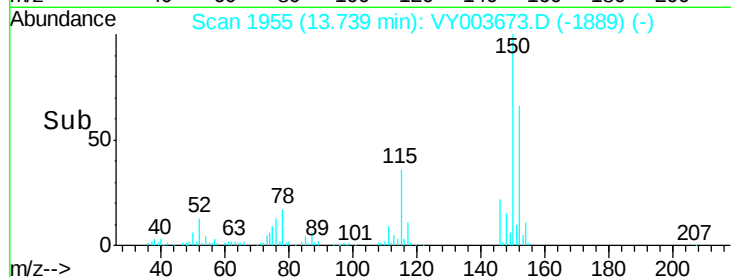
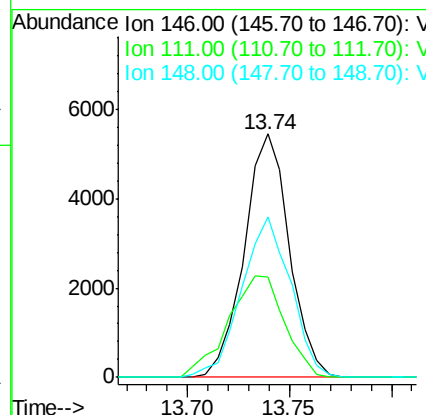
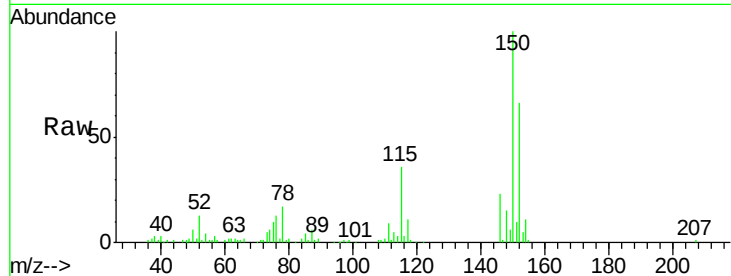
#67
 1,2-Dichlorobenzene
 Concen: 1.302 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	32.5	48.7
148	66.0	48.8	73.2

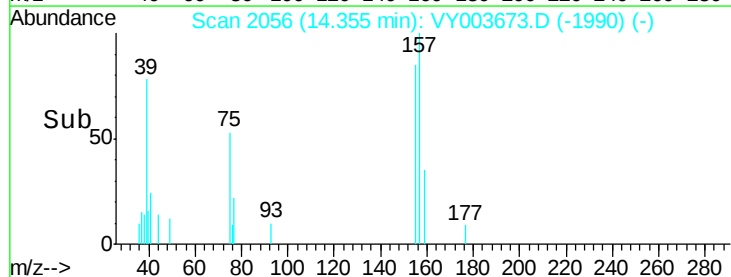
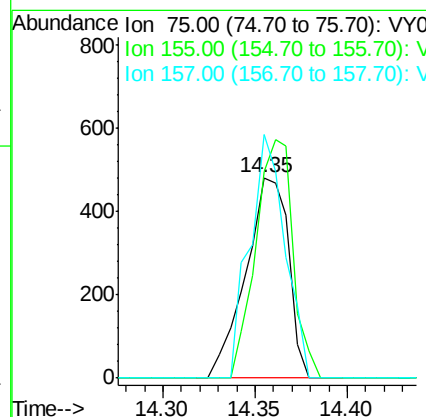
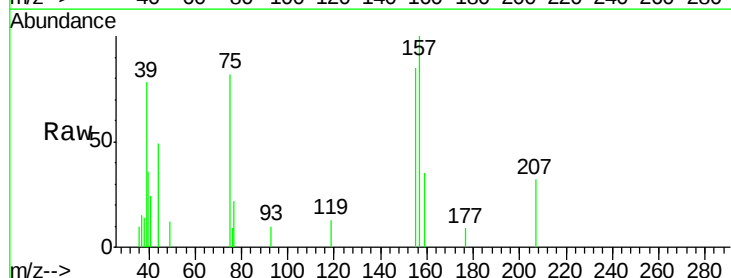
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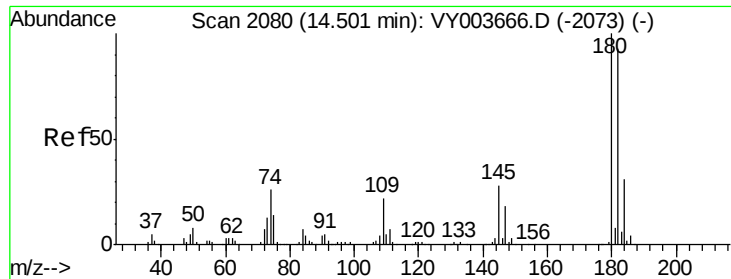
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.341 ug/L m
 RT: 14.35 min Scan# 2056
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.7	69.5	104.3
157	121.4	111.3	166.9





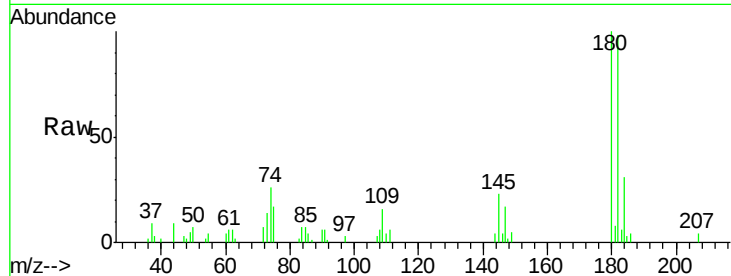
#69
 1,3,5-Trichlorobenzene
 Concen: 1.322 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Resp	Lower	Upper
180	100	6503		
182	93.3		80.1	120.1
184	29.5		24.4	36.6
145	25.0		22.9	34.3

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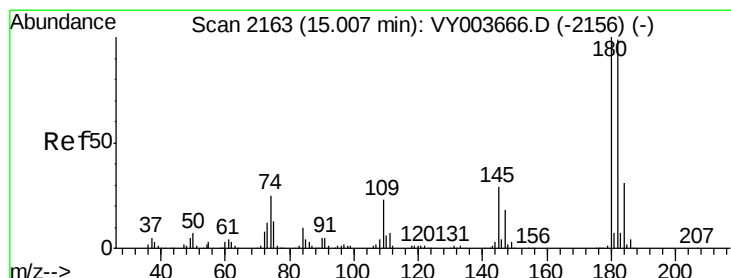
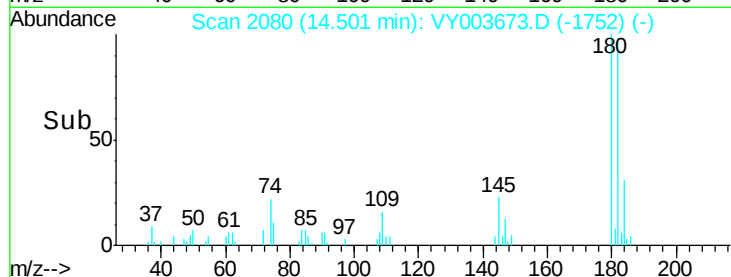
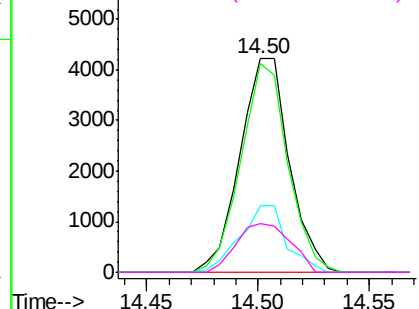


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

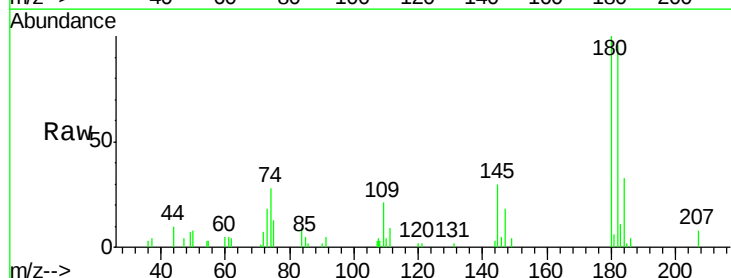
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.277 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VY003673.D
 Acq: 07 Dec 2020 16:46

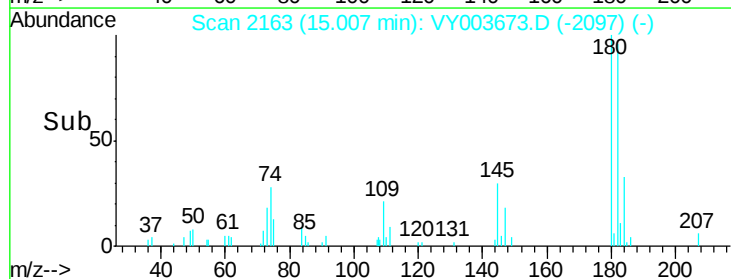
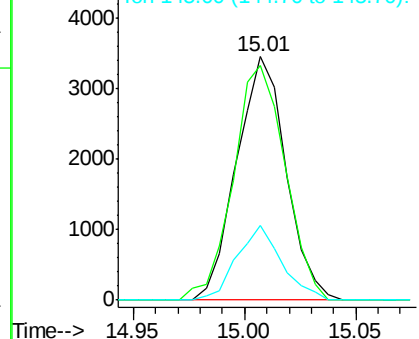
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5341		
182	101.2		81.5	122.3
145	27.7		22.3	33.5

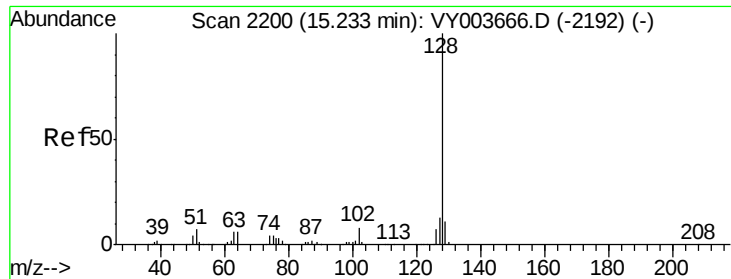


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





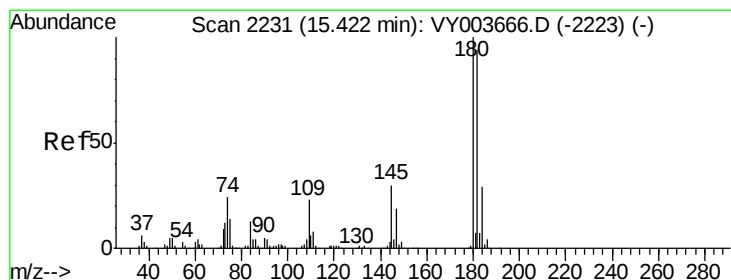
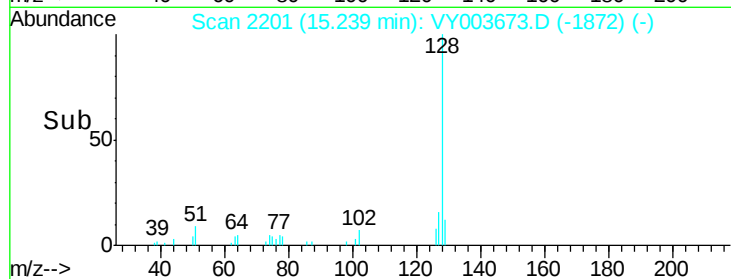
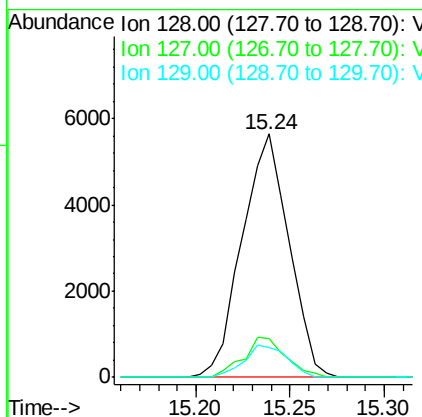
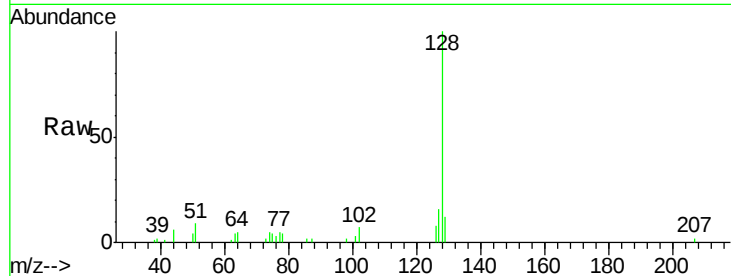
#71
Naphthalene
Concen: 1.097 ug/L
RT: 15.24 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.4
129	12.1	9.4	14.0

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#72
1,2,3-Trichlorobenzene
Concen: 1.307 ug/L
RT: 15.42 min Scan# 2231
Delta R.T. -0.00 min
Lab File: VY003673.D
Acq: 07 Dec 2020 16:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.5	78.7	118.1
145	32.6	24.6	37.0

