

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\
 Data File : VY003486.D
 Acq On : 03 Nov 2020 12:54
 Operator : SY/MD
 Sample : L4214-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 11:57:46 AM

Quant Time: Nov 04 01:25:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 01:18:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	231682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	336461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	300625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	151063	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	122175	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
35) Dibromofluoromethane	7.73	113	106105	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
50) Toluene-d8	10.18	98	434253	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.48	95	141108	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	8175	4.460	ug/l	97
3) Chloromethane	2.12	50	10831	4.488	ug/l	97
4) Vinyl Chloride	2.26	62	12070	4.456	ug/l	97
5) Bromomethane	2.66	94	9315	4.116	ug/l	94
6) Chloroethane	2.80	64	7064	4.375	ug/l	100
7) Trichlorofluoromethane	3.13	101	15221	4.427	ug/l	97
8) Diethyl Ether	3.55	74	4533	4.299	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.91	101	8324	4.380	ug/l	99
10) Methyl Iodide	4.10	142	7636	4.869	ug/l	98
11) Tert butyl alcohol	4.95	59	11676	43.541	ug/l #	80
12) 1,1-Dichloroethene	3.88	96	8314	4.397	ug/l	96
13) Acrolein	3.74	56	4217	21.394	ug/l	99
14) Allyl chloride	4.49	41	14339	4.157	ug/l	99
15) Acrylonitrile	5.18	53	11462	20.365	ug/l	99
16) Acetone	3.96	43	14962	19.096	ug/l	92
17) Carbon Disulfide	4.21	76	26911	4.393	ug/l	99
18) Methyl Acetate	4.49	43	6723	4.540	ug/l	99
19) Methyl tert-butyl Ether	5.23	73	19616	4.189	ug/l	97
20) Methylene Chloride	4.73	84	15118	6.851	ug/l	99
21) trans-1,2-Dichloroethene	5.24	96	9377	4.283	ug/l	98
22) Diisopropyl ether	6.13	45	25228	4.170	ug/l	97
23) Vinyl Acetate	6.08	43	86262	18.972	ug/l	97
24) 1,1-Dichloroethane	6.04	63	16397	4.265	ug/l	100
25) 2-Butanone	7.00	43	19339	19.734	ug/l #	88
26) 2,2-Dichloropropane	6.99	77	16335	4.560	ug/l	95
27) cis-1,2-Dichloroethene	7.00	96	10271	4.329	ug/l	96
28) Bromochloromethane	7.35	49	8378	4.331	ug/l	95
29) Tetrahydrofuran	7.36	42	10401	20.312	ug/l	98
30) Chloroform	7.52	83	16348	4.329	ug/l	96
31) Cyclohexane	7.80	56	18666	5.243	ug/l #	82
32) 1,1,1-Trichloroethane	7.71	97	15481	4.394	ug/l	99
36) 1,1-Dichloropropene	7.93	75	13603	4.288	ug/l	99
37) Ethyl Acetate	7.08	43	8204	4.165	ug/l	96
38) Carbon Tetrachloride	7.91	117	13354	4.058	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	14625	4.140	ug/l	93
40) Benzene	8.17	78	37537	4.252	ug/l	98
41) Methacrylonitrile	7.33	41	4697m	4.465	ug/l	
42) 1,2-Dichloroethane	8.25	62	11782	4.259	ug/l	100
43) Isopropyl Acetate	8.28	43	13907	3.928	ug/l	98
44) Trichloroethene	8.94	130	10620	4.285	ug/l	99
45) 1,2-Dichloropropane	9.22	63	9487	4.255	ug/l	96
46) Dibromomethane	9.32	93	5238	4.271	ug/l	97
47) Bromodichloromethane	9.50	83	12489	4.160	ug/l #	98
48) Methyl methacrylate	9.30	41	6170	3.700	ug/l #	93
49) 1,4-Dioxane	9.31	88	1259	82.265	ug/l	95
51) 4-Methyl-2-Pentanone	10.07	43	39346	20.860	ug/l	98
52) Toluene	10.25	92	23180	4.198	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	12889	4.034	ug/l	93
54) cis-1,3-Dichloropropene	9.93	75	14408	4.008	ug/l	94
55) 1,1,2-Trichloroethane	10.64	97	7349	4.221	ug/l	96
56) Ethyl methacrylate	10.51	69	8596	3.686	ug/l	94
57) 1,3-Dichloropropane	10.79	76	12819	4.234	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	24219	20.485	ug/l	100
59) 2-Hexanone	10.83	43	24867	17.806	ug/l	99
60) Dibromochloromethane	10.99	129	8778	4.102	ug/l	100
61) 1,2-Dibromoethane	11.09	107	6769	4.027	ug/l	99
64) Tetrachloroethene	10.72	164	9839	4.382	ug/l	97
65) Chlorobenzene	11.52	112	25308	4.333	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	8982	4.078	ug/l	95
67) Ethyl Benzene	11.60	91	43578	4.115	ug/l	97
68) m/p-Xylenes	11.70	106	32425	8.080	ug/l	98
69) o-Xylene	12.03	106	14640	3.966	ug/l	97
70) Styrene	12.05	104	23741	3.788	ug/l	97
71) Bromoform	12.20	173	5764	3.926	ug/l #	99
73) Isopropylbenzene	12.33	105	41059	4.161	ug/l	99
74) N-amyl acetate	12.14	43	11023	3.944	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.58	83	8637	4.098	ug/l	97
76) 1,2,3-Trichloropropane	12.63	75	6442m	4.030	ug/l	
77) Bromobenzene	12.61	156	10570	4.216	ug/l	96
78) n-propylbenzene	12.67	91	48601	4.181	ug/l	98
79) 2-Chlorotoluene	12.76	91	27465	4.229	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	34126	4.174	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	3040	3.970	ug/l	94
82) 4-Chlorotoluene	12.85	91	29304	4.318	ug/l	100
83) tert-Butylbenzene	13.08	119	30216	4.167	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	33440	4.092	ug/l	99
85) sec-Butylbenzene	13.25	105	40761	4.151	ug/l	97
86) p-Isopropyltoluene	13.37	119	36060	3.960	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	20076	4.298	ug/l	98
88) 1,4-Dichlorobenzene	13.44	146	20222	4.354	ug/l	93
89) n-Butylbenzene	13.69	91	33774	4.061	ug/l	99
90) Hexachloroethane	13.95	117	6261	4.086	ug/l	94
91) 1,2-Dichlorobenzene	13.74	146	17631	4.249	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1641	4.301	ug/l	87

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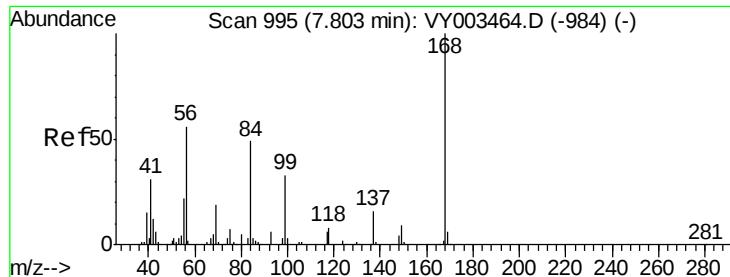
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	12717	4.333	ug/l	96
94) Hexachlorobutadiene	15.11	225	8936	4.733	ug/l	97
95) Naphthalene	15.23	128	22302	3.795	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	11198	4.242	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 231682

Ion Ratio Lower Upper

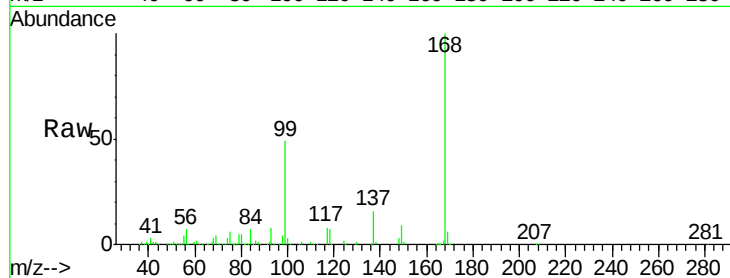
168 100

99 49.0 39.7 59.5

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Abundance Ion 167.90 (167.60 to 168.60): VY003486.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY003486.D (-946) (-)

7.80

100000

80000

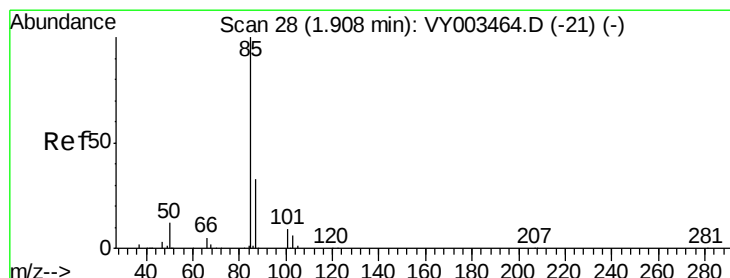
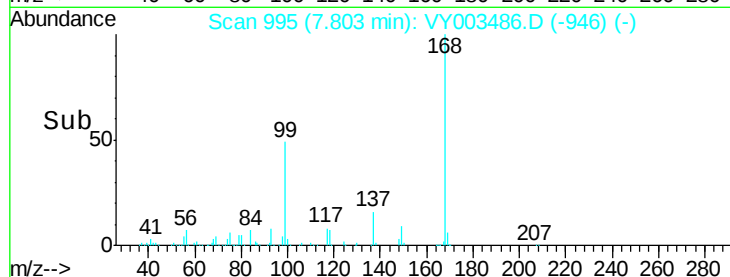
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.460 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY003486.D

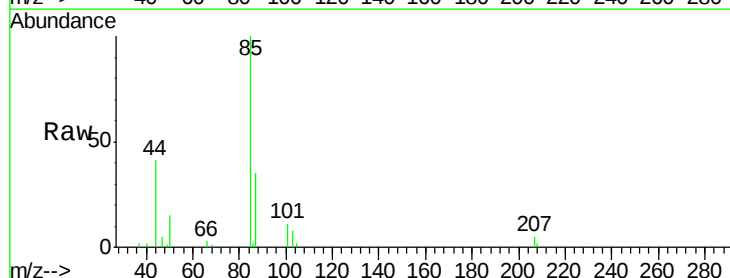
Acq: 03 Nov 2020 12:54

Tgt Ion: 85 Resp: 8175

Ion Ratio Lower Upper

85 100

87 34.6 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VY003486.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY003486.D (-1) (-)

1.91

6000

5000

4000

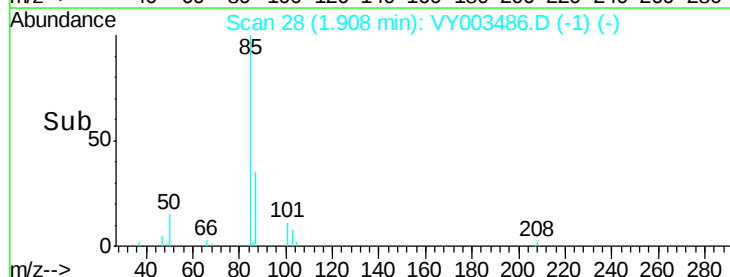
3000

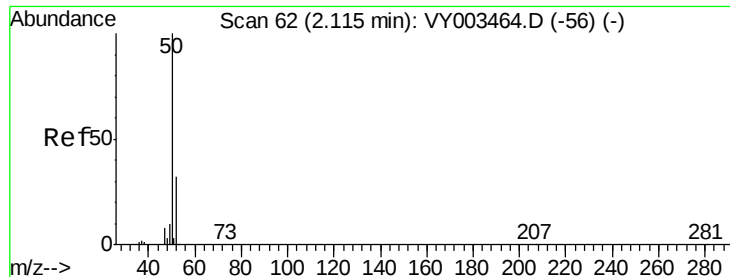
2000

1000

0

Time-->





#3

Chloromethane

Concen: 4.488 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 10831

Ion Ratio Lower Upper

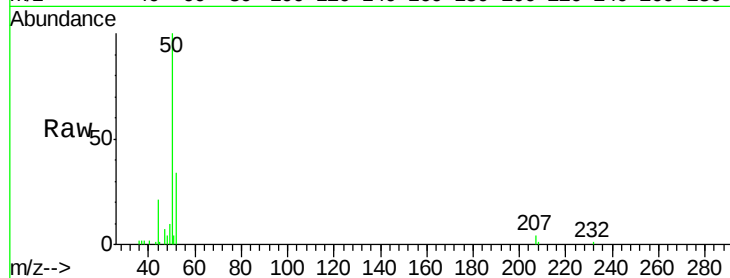
50 100

52 33.5 25.6 38.4

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Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0

2.12

8000

6000

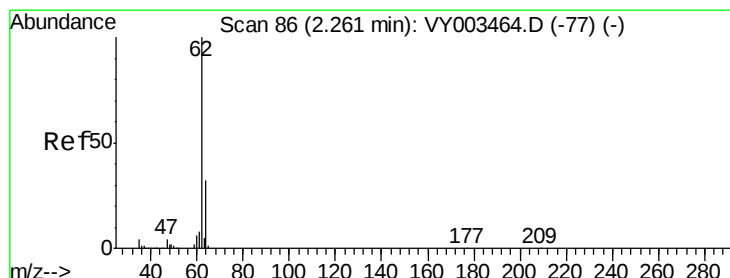
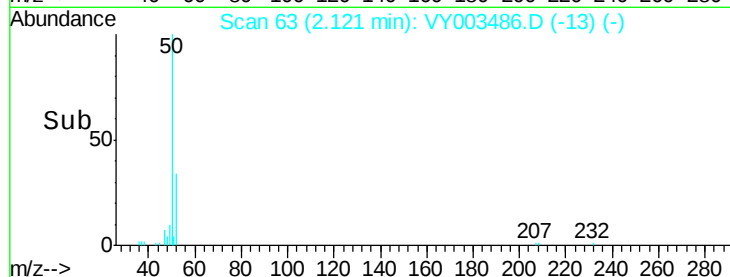
4000

2000

0

Time-->

2.05 2.10 2.15 2.20



#4

Vinyl Chloride

Concen: 4.456 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY003486.D

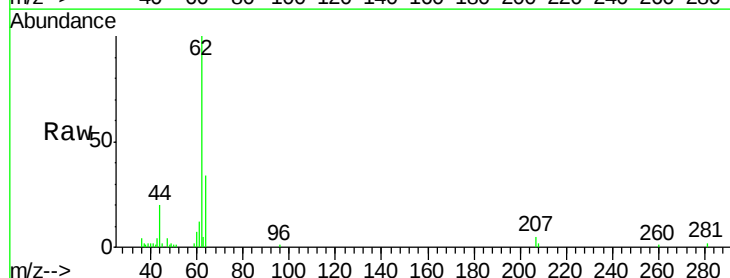
Acq: 03 Nov 2020 12:54

Tgt Ion: 62 Resp: 12070

Ion Ratio Lower Upper

62 100

64 33.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0

2.26

8000

6000

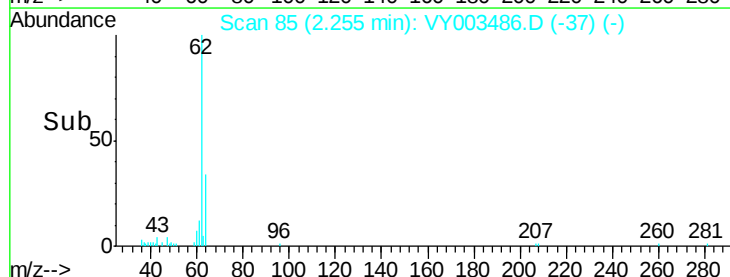
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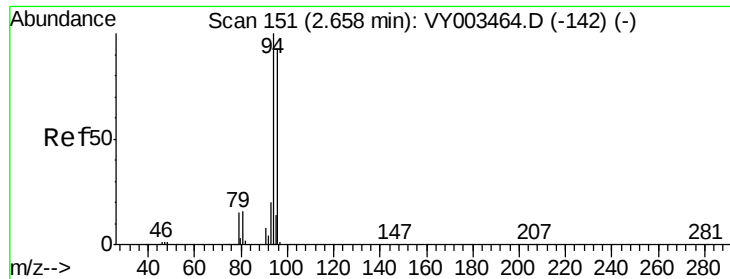
2000

0

Time-->

2.20 2.25 2.30 2.35





#5

Bromomethane

Concen: 4.116 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 9315

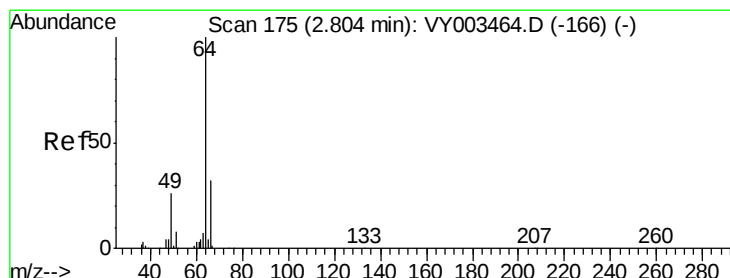
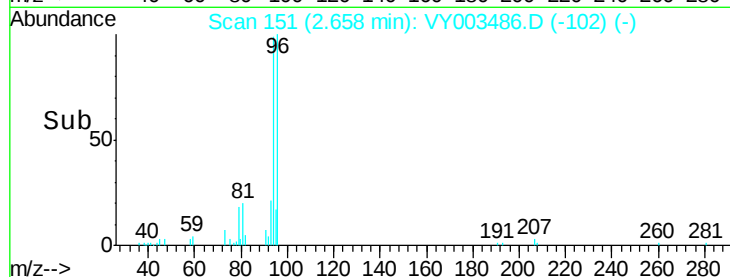
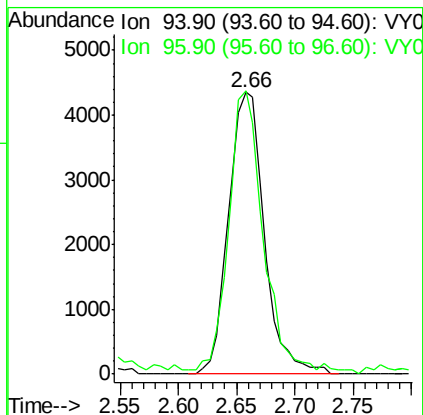
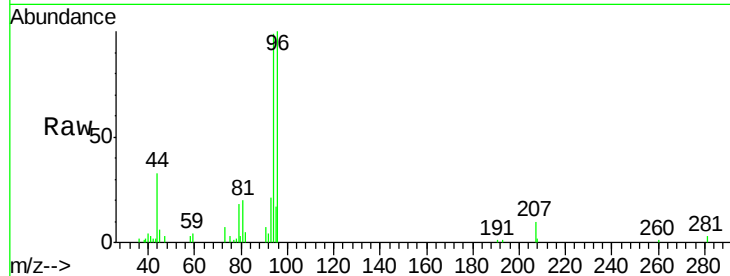
Ion Ratio Lower Upper

94 100

96 99.2 74.6 112.0

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#6

Chloroethane

Concen: 4.375 ug/l

RT: 2.80 min Scan# 175

Delta R.T. 0.00 min

Lab File: VY003486.D

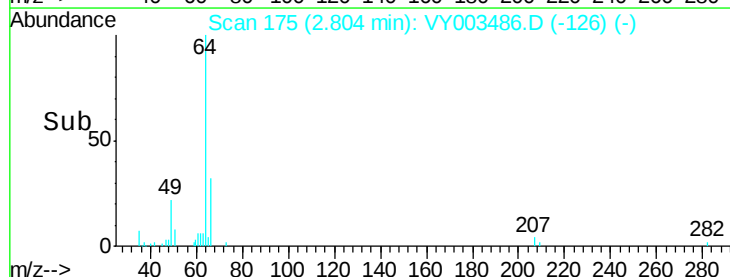
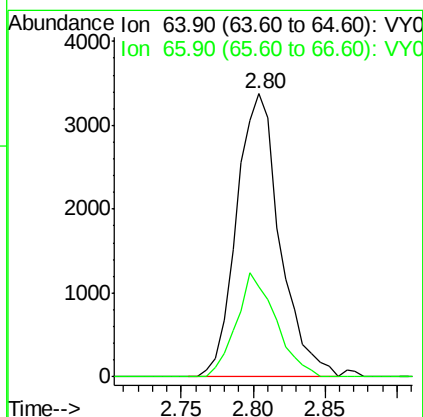
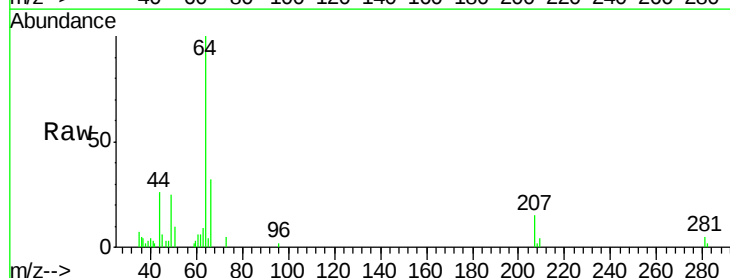
Acq: 03 Nov 2020 12:54

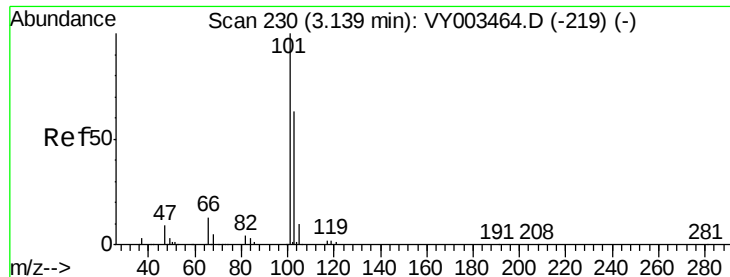
Tgt Ion: 64 Resp: 7064

Ion Ratio Lower Upper

64 100

66 31.9 25.6 38.4





#7

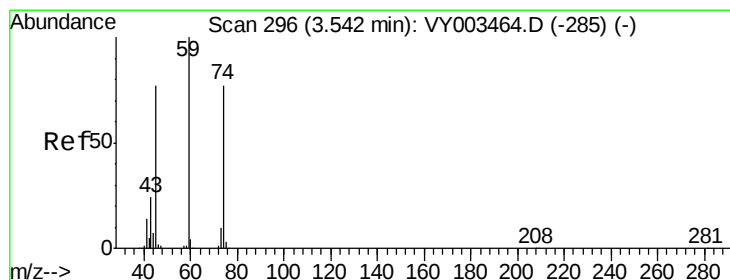
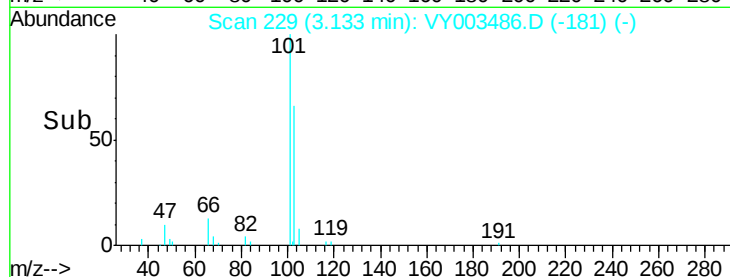
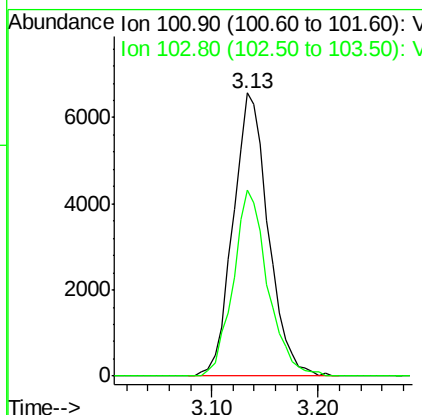
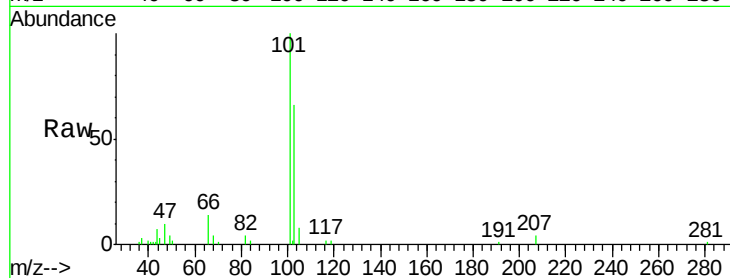
Trichlorofluoromethane
Concen: 4.427 ug/l
RT: 3.13 min Scan# 229
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

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MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.7	76.1

Manual Integrations
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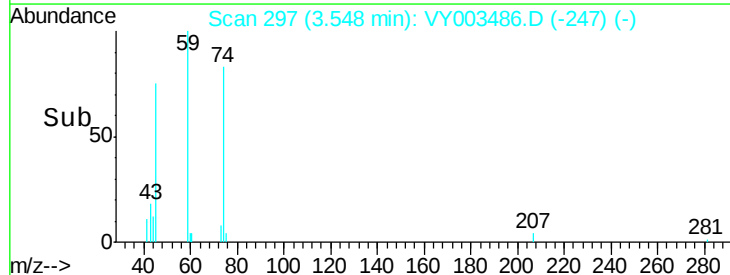
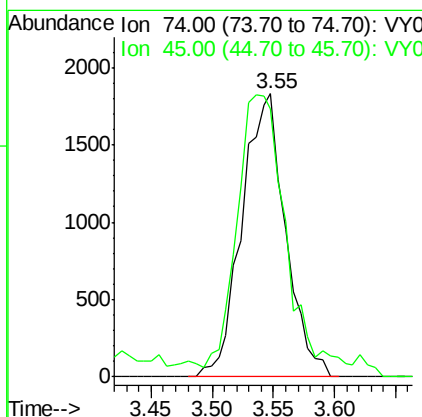
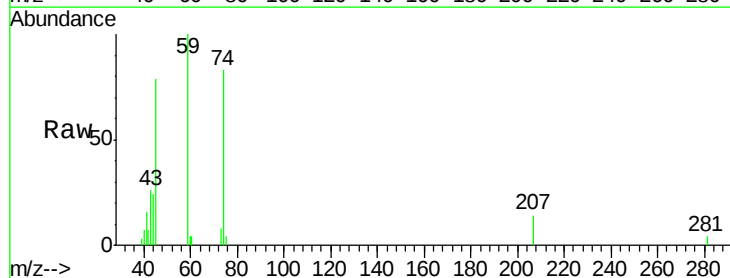
MMDadoda
11/4/2020 11:57:46 AM

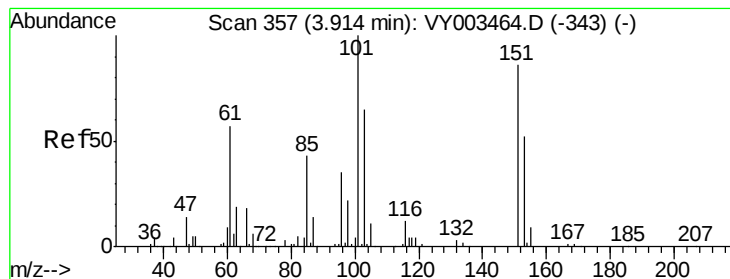


#8

Diethyl Ether
Concen: 4.299 ug/l
RT: 3.55 min Scan# 297
Delta R.T. 0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.8	50.7	152.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.380 ug/l

RT: 3.91 min Scan# 357

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

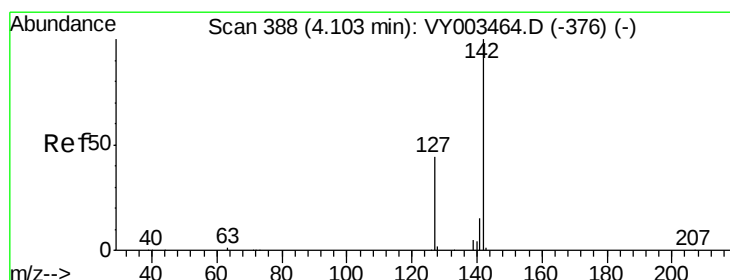
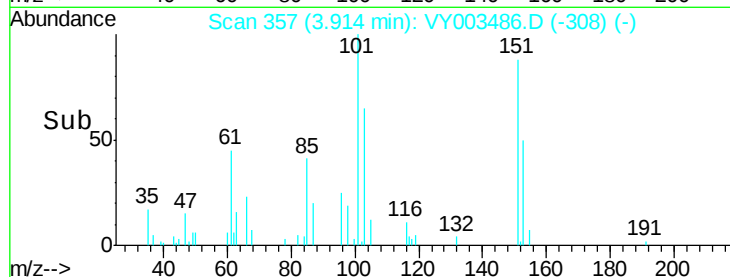
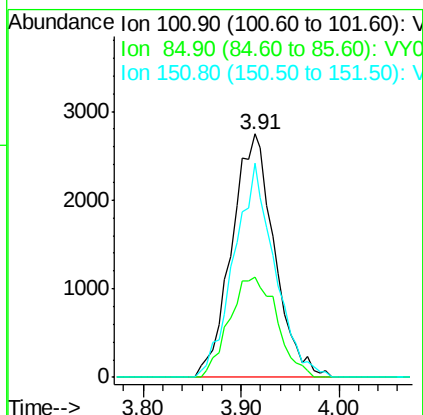
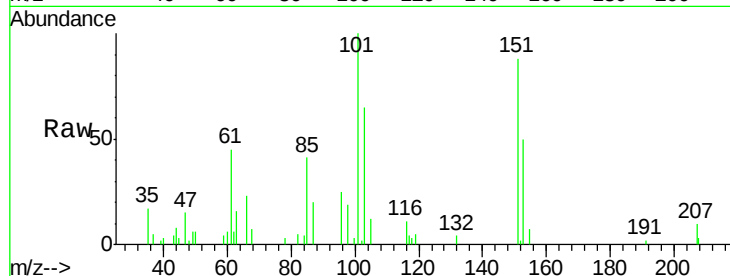
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	101	Resp:	8324
Ion Ratio	Lower	Upper	
101	100		
85	45.6	35.8	53.8
151	84.0	67.6	101.4

Manual Integrations
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#10

Methyl Iodide

Concen: 4.869 ug/l

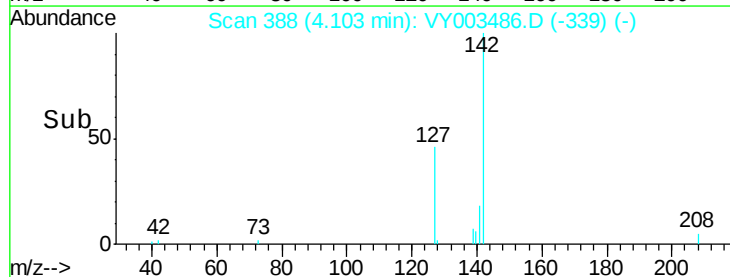
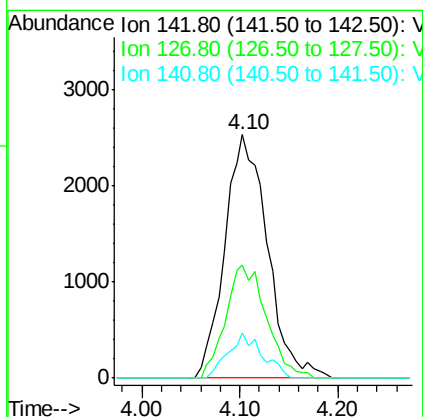
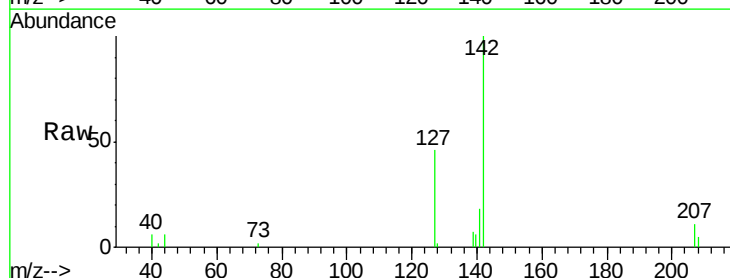
RT: 4.10 min Scan# 388

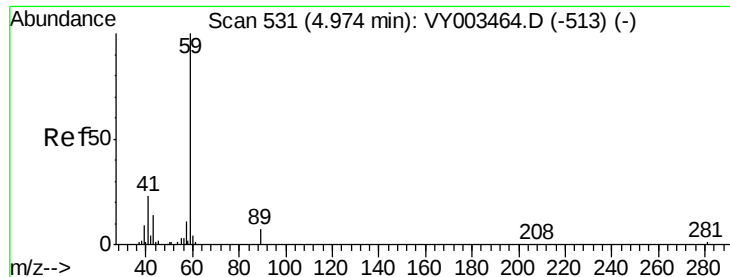
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	142	Resp:	7636
Ion Ratio	Lower	Upper	
142	100		
127	44.5	34.5	51.7
141	15.0	11.8	17.8





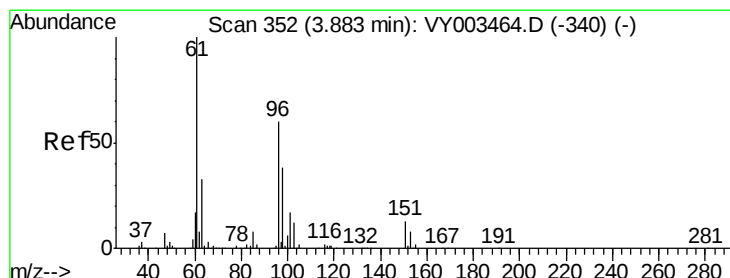
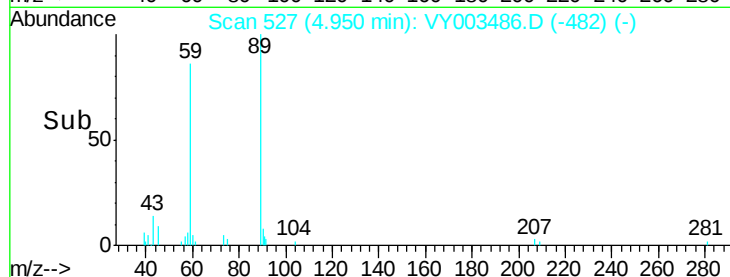
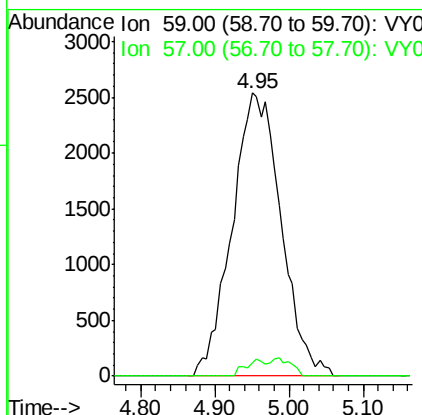
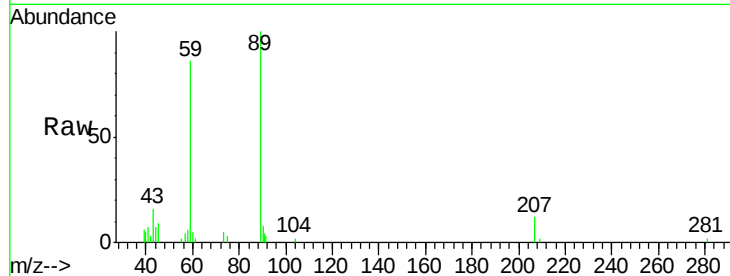
#11
Tert butyl alcohol
Concen: 43.541 ug/l
RT: 4.95 min Scan# 527
Delta R.T. -0.02 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 59 Resp: 11676
Ion Ratio Lower Upper
59 100
57 2.4 7.9 11.9#

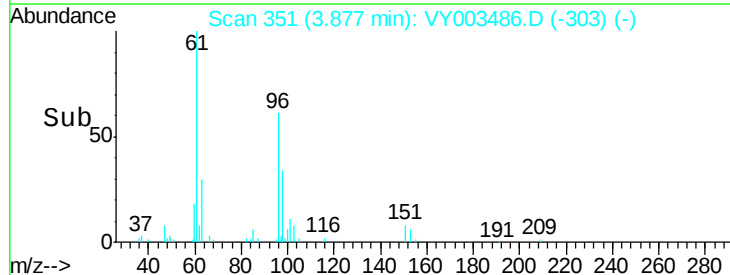
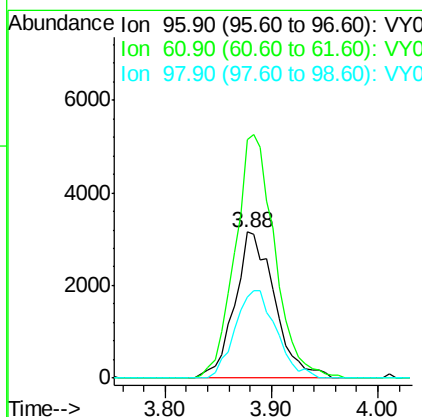
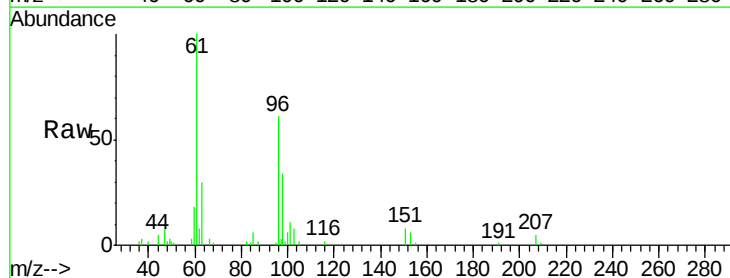
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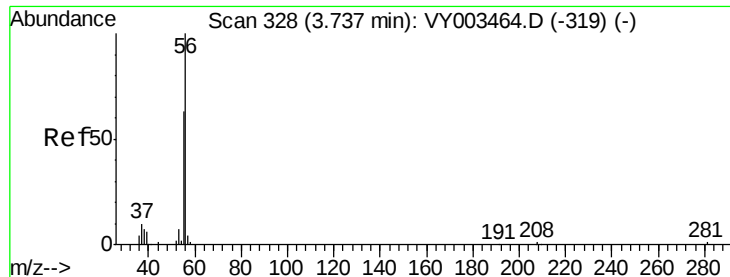
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#12
1,1-Dichloroethene
Concen: 4.397 ug/l
RT: 3.88 min Scan# 351
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 96 Resp: 8314
Ion Ratio Lower Upper
96 100
61 163.6 133.6 200.4
98 55.4 50.2 75.2





#13

Acrolein

Concen: 21.394 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 4217

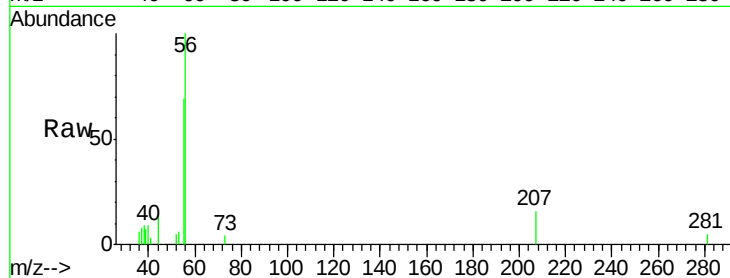
Ion Ratio Lower Upper

56 100

55 71.7 56.6 85.0

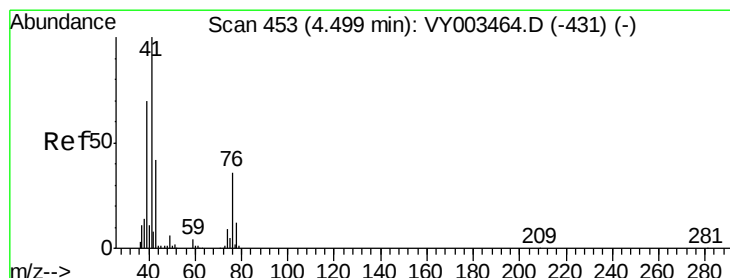
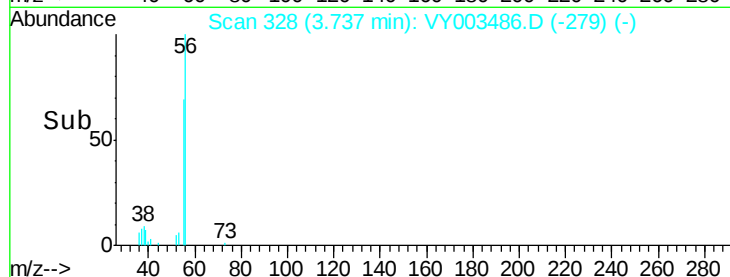
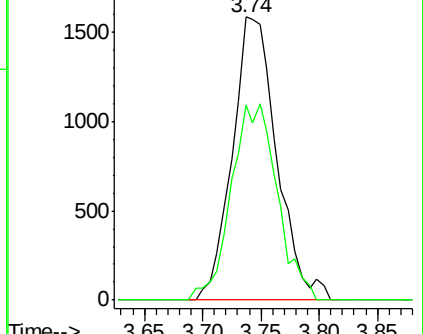
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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 4.157 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

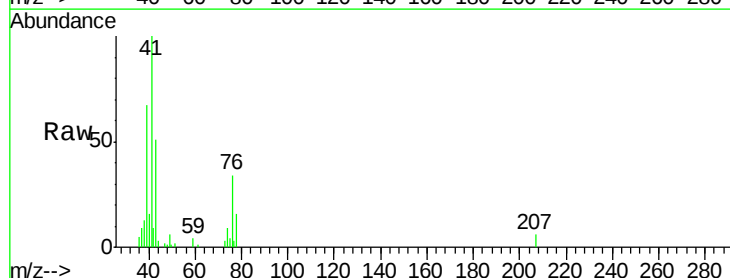
Tgt Ion: 41 Resp: 14339

Ion Ratio Lower Upper

41 100

39 68.4 54.4 81.6

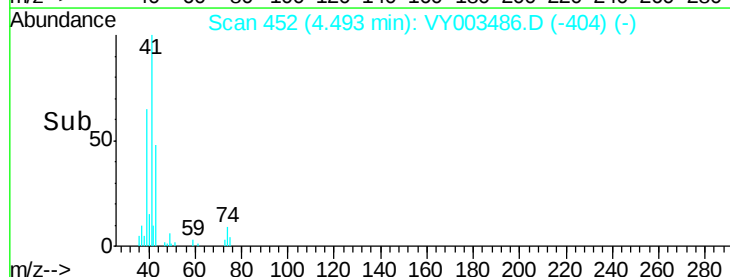
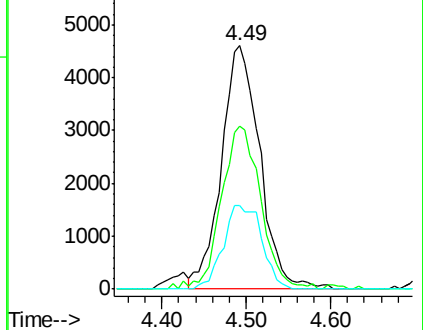
76 34.1 27.6 41.4

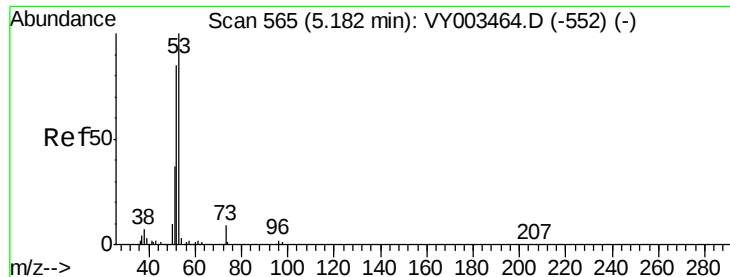


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 20.365 ug/l

RT: 5.18 min Scan# 565

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

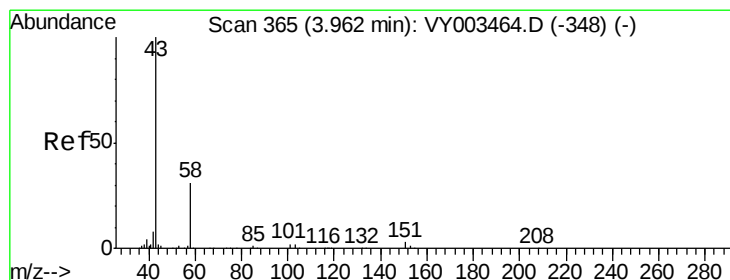
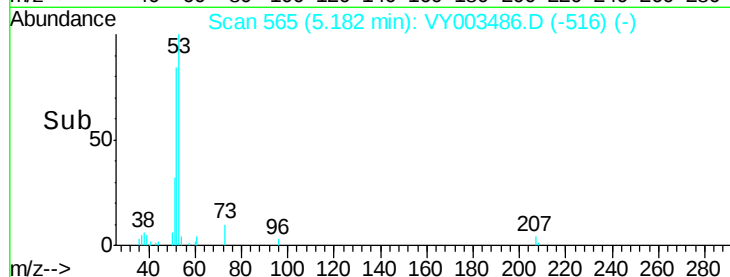
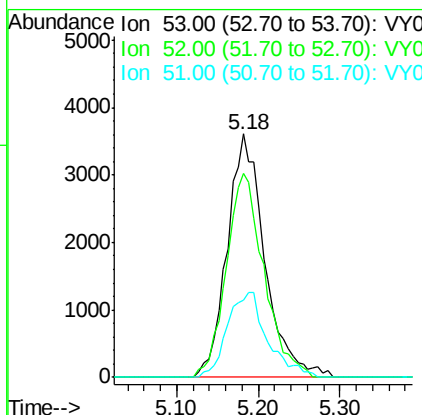
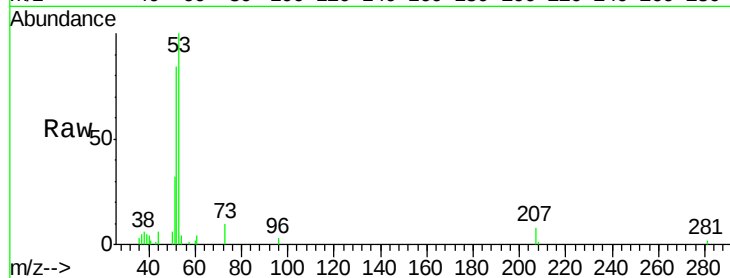
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	53	Resp:	11462
Ion	Ratio	Lower	Upper
53	100		
52	84.3	66.9	100.3
51	37.3	29.3	43.9

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#16

Acetone

Concen: 19.096 ug/l

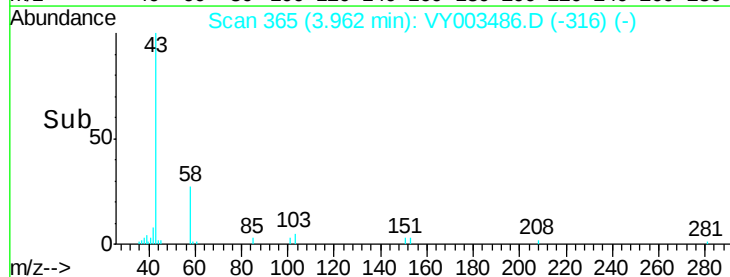
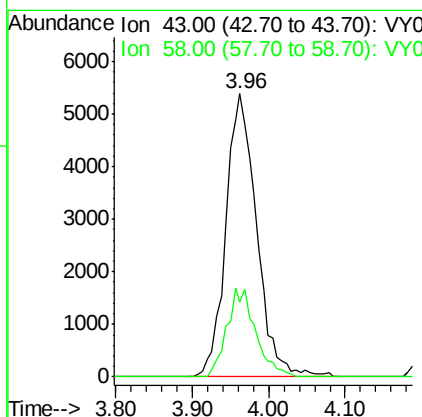
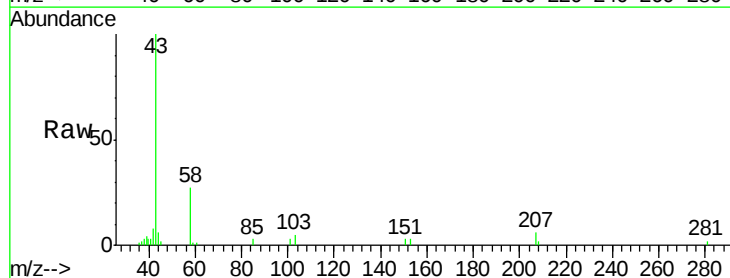
RT: 3.96 min Scan# 365

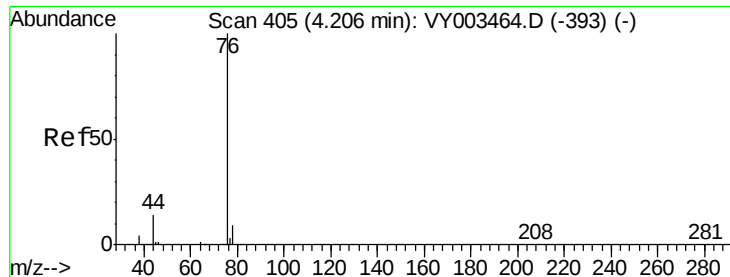
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	43	Resp:	14962
Ion	Ratio	Lower	Upper
43	100		
58	26.6	25.0	37.4





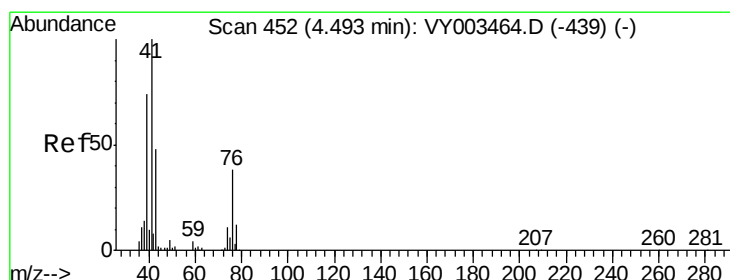
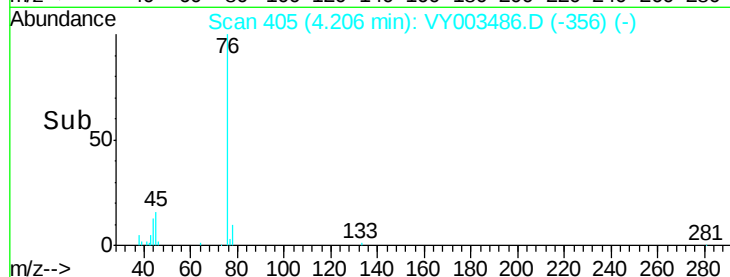
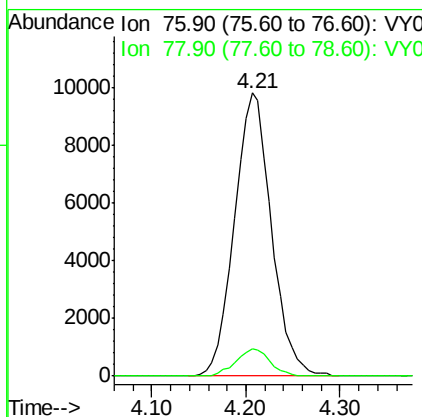
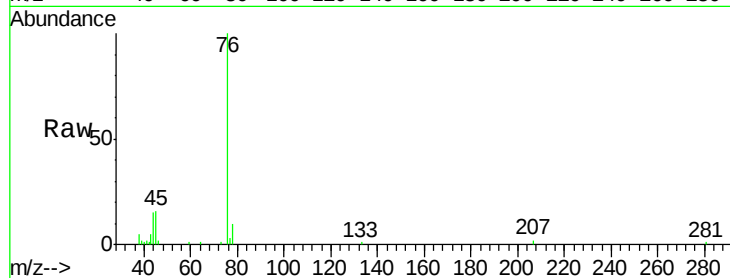
#17
Carbon Disulfide
Concen: 4.393 ug/l
RT: 4.21 min Scan# 405
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.4	11.2

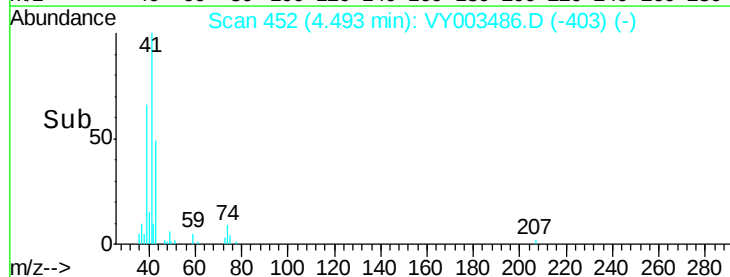
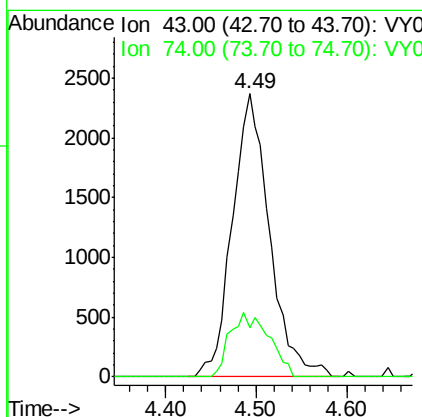
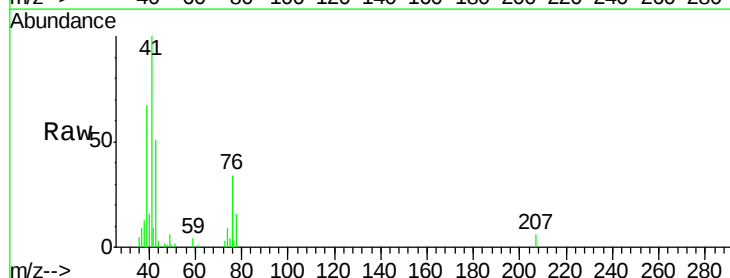
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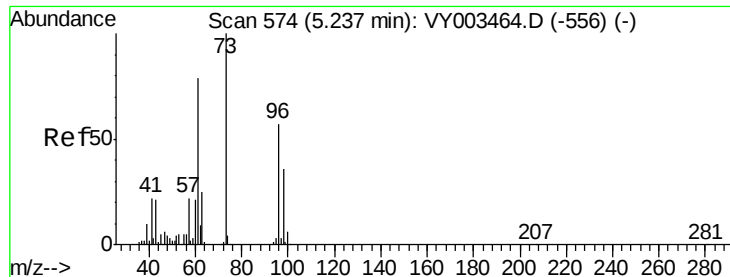
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#18
Methyl Acetate
Concen: 4.540 ug/l
RT: 4.49 min Scan# 452
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.4	27.6





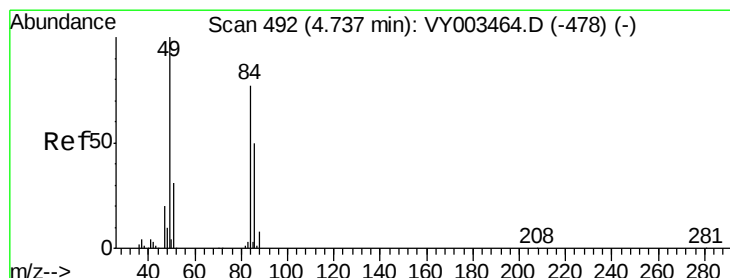
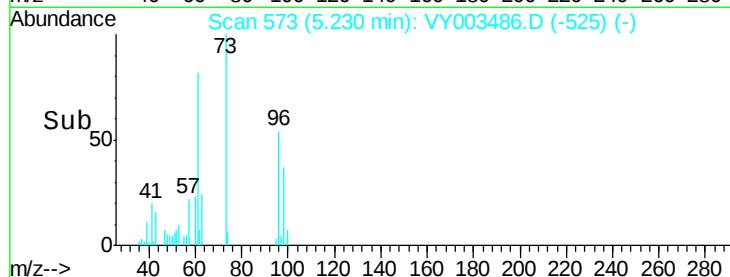
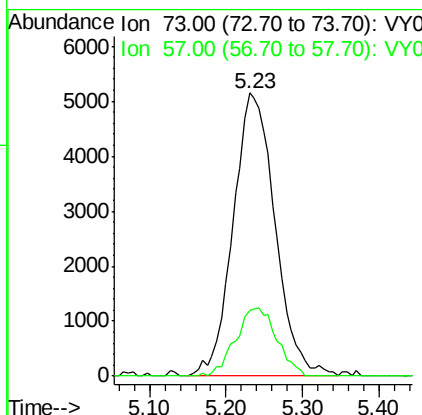
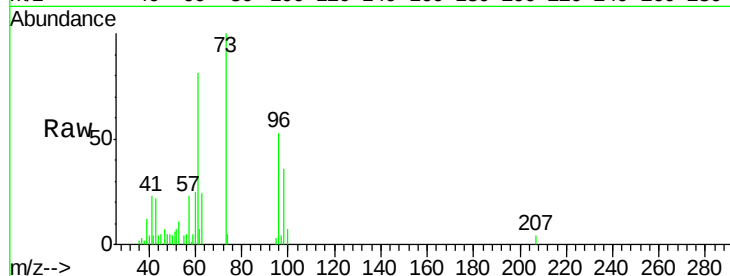
#19
Methyl tert-butyl Ether
Concen: 4.189 ug/l
RT: 5.23 min Scan# 573
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 73 Resp: 19616
Ion Ratio Lower Upper
73 100
57 23.1 17.2 25.8

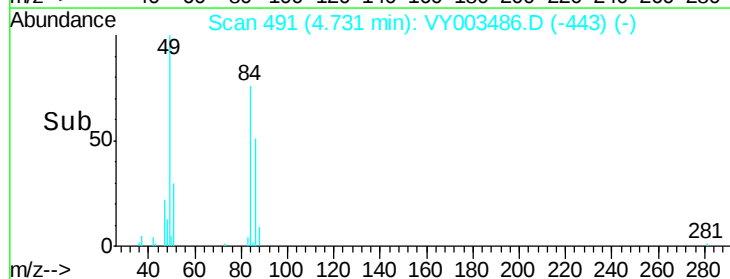
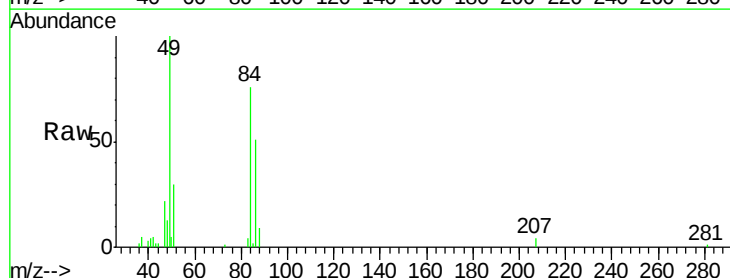
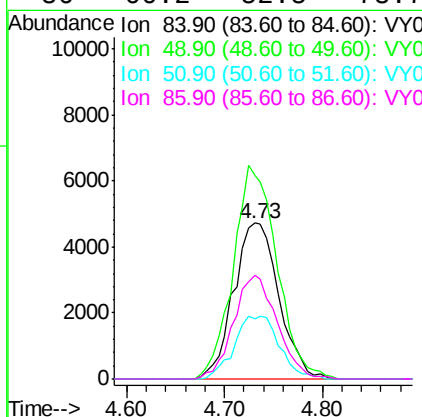
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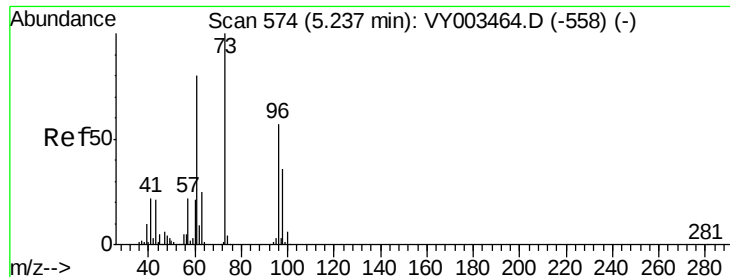
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#20
Methylene Chloride
Concen: 6.851 ug/l
RT: 4.73 min Scan# 491
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 84 Resp: 15118
Ion Ratio Lower Upper
84 100
49 130.8 104.3 156.5
51 38.9 32.5 48.7
86 66.2 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 4.283 ug/l

RT: 5.24 min Scan# 574

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

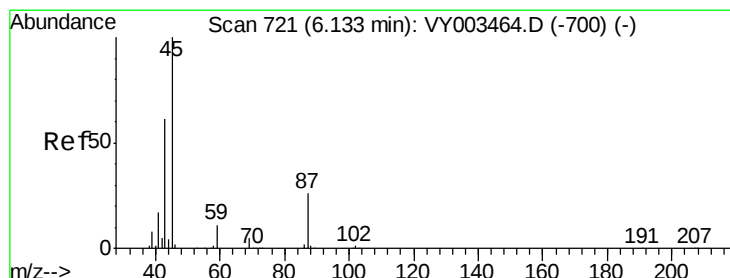
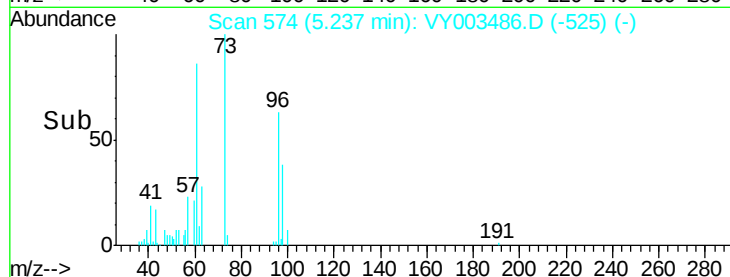
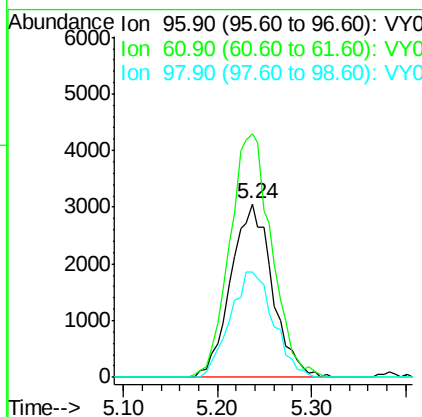
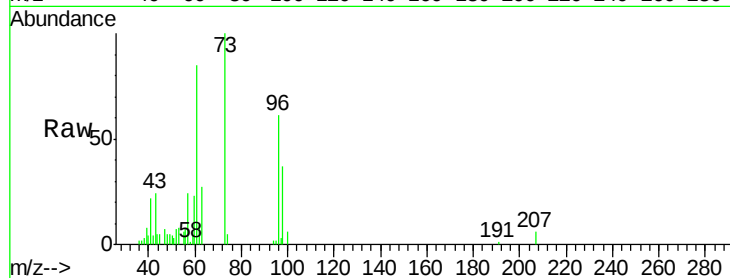
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	96	Resp:	9377
Ion	Ratio	Lower	Upper
96	100		
61	140.1	111.3	166.9
98	60.3	50.3	75.5

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#22

Diisopropyl ether

Concen: 4.170 ug/l

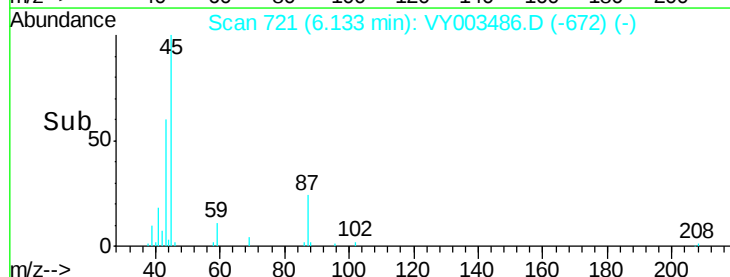
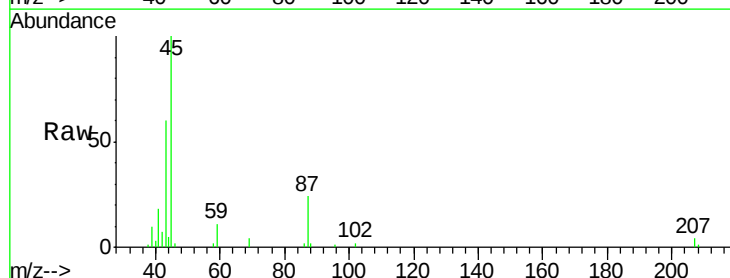
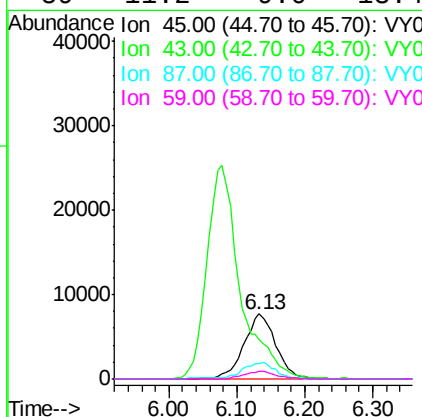
RT: 6.13 min Scan# 721

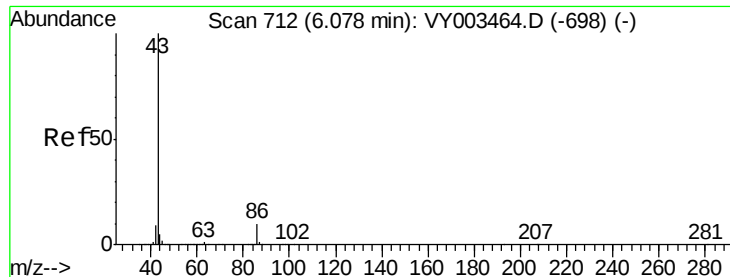
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	45	Resp:	25228
Ion	Ratio	Lower	Upper
45	100		
43	59.3	48.8	73.2
87	23.6	20.6	31.0
59	11.2	9.0	13.4





#23

Vinyl Acetate

Concen: 18.972 ug/l

RT: 6.08 min Scan# 712

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 86262

Ion Ratio Lower Upper

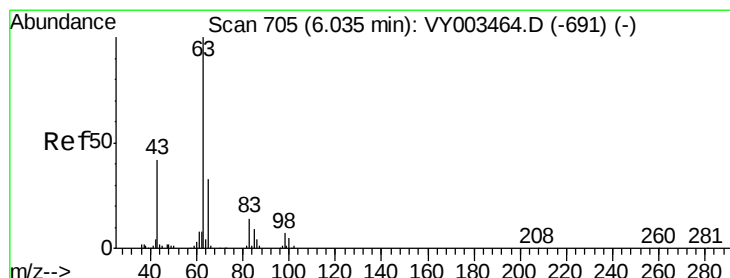
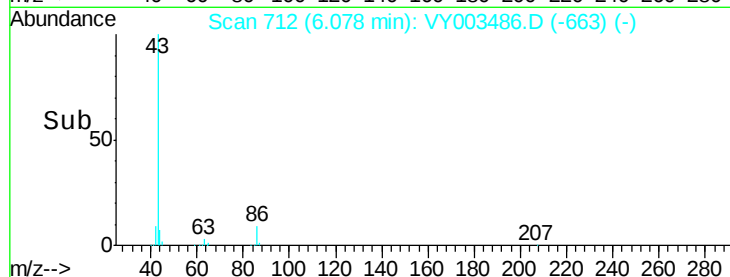
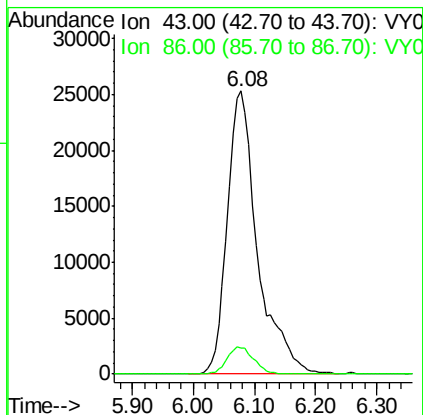
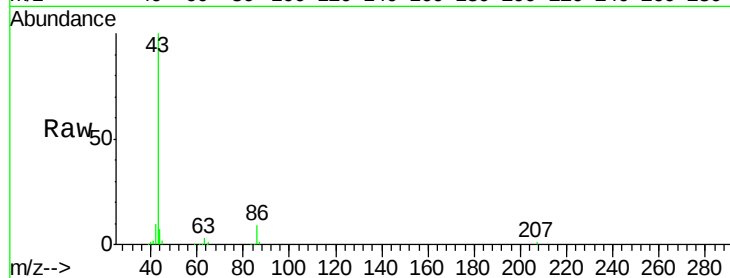
43 100

86 9.1 8.2 12.2

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#24

1,1-Dichloroethane

Concen: 4.265 ug/l

RT: 6.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

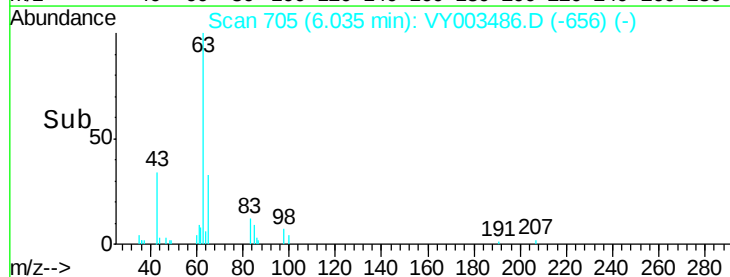
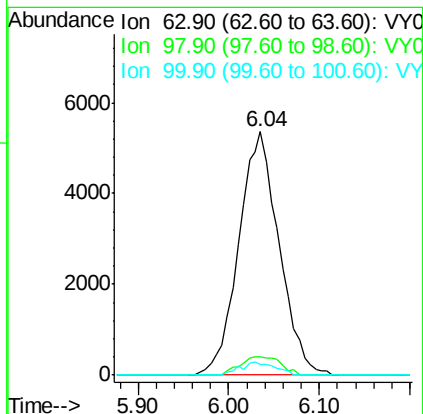
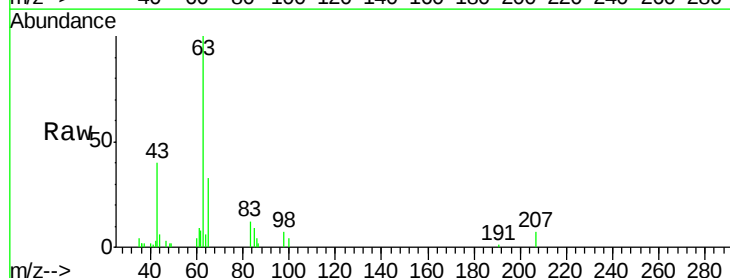
Tgt Ion: 63 Resp: 16397

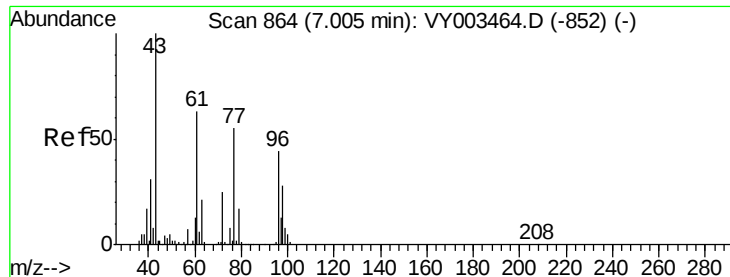
Ion Ratio Lower Upper

63 100

98 7.4 3.6 10.8

100 4.5 2.3 6.9





#25

2-Butanone

Concen: 19.734 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 19339

Ion Ratio Lower Upper

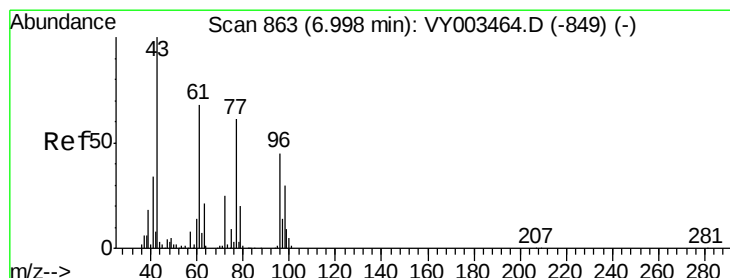
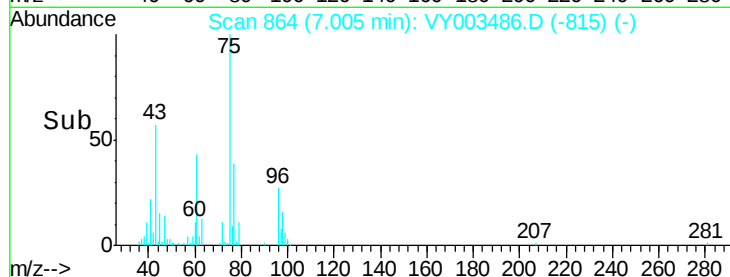
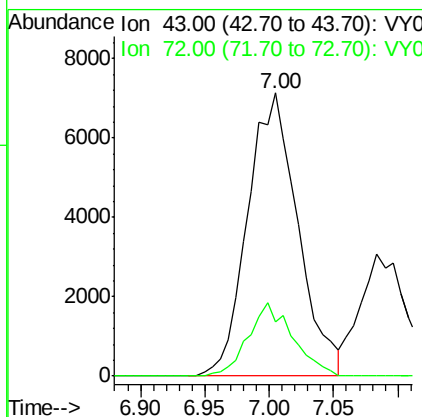
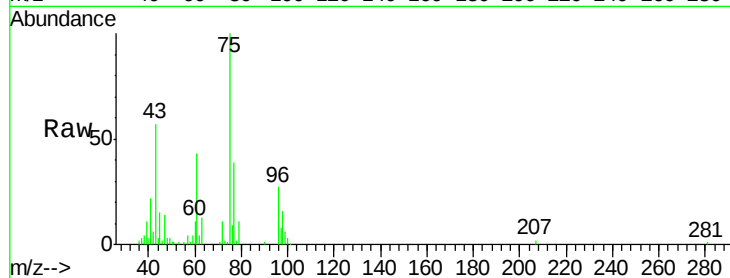
43 100

72 19.2 20.1 30.1#

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#26

2,2-Dichloropropane

Concen: 4.560 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY003486.D

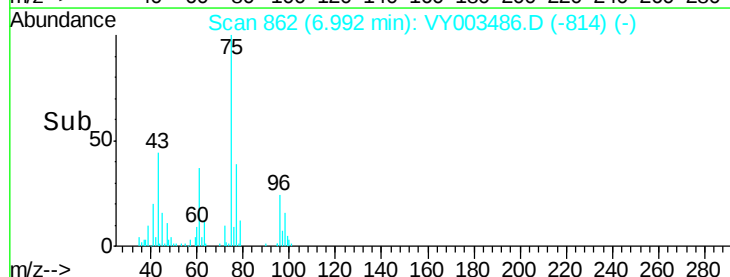
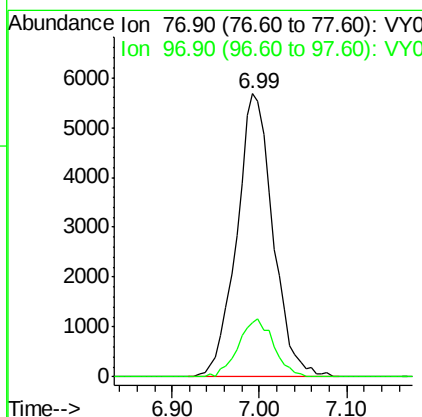
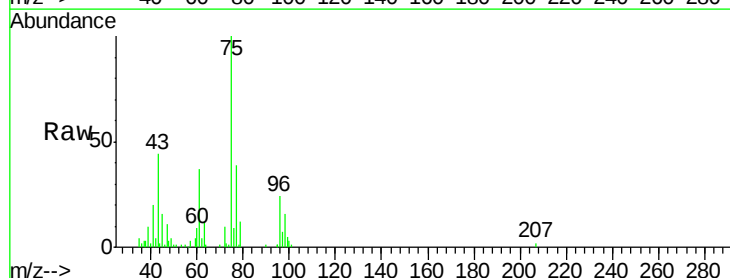
Acq: 03 Nov 2020 12:54

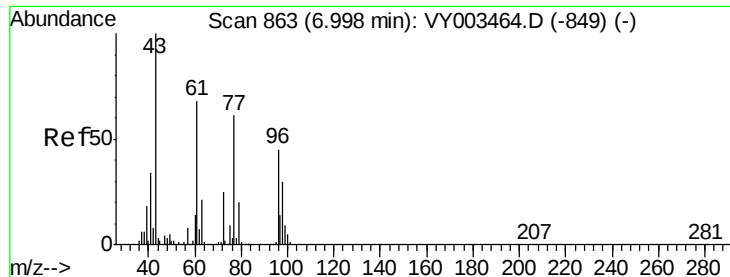
Tgt Ion: 77 Resp: 16335

Ion Ratio Lower Upper

77 100

97 20.0 11.2 33.6





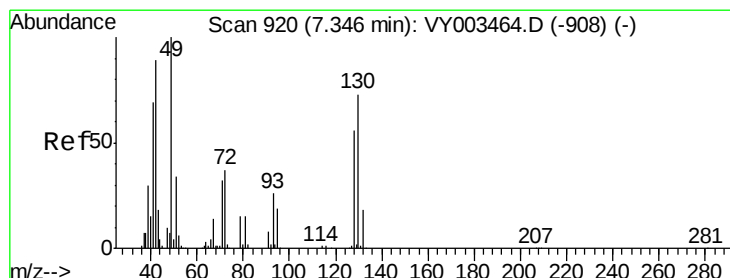
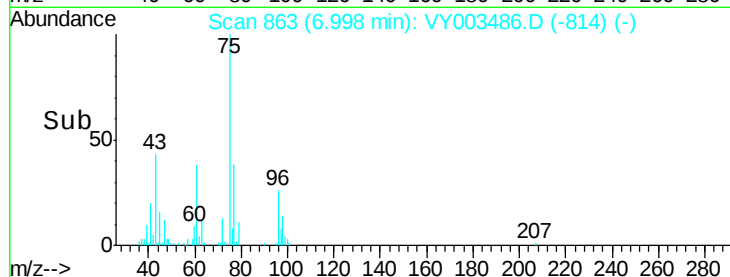
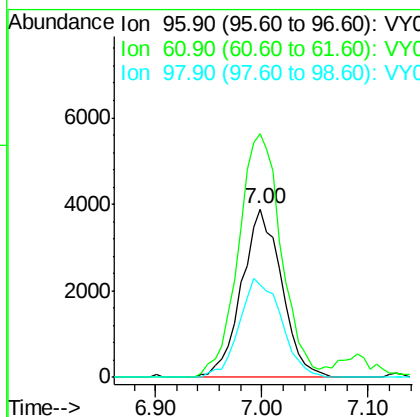
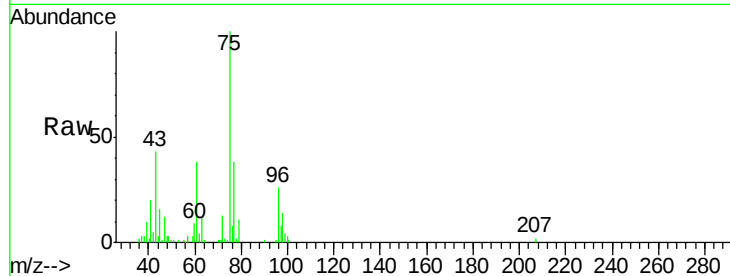
#27
 cis-1,2-Dichloroethene
 Concen: 4.329 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	299.2
98	61.6	0.0	128.6

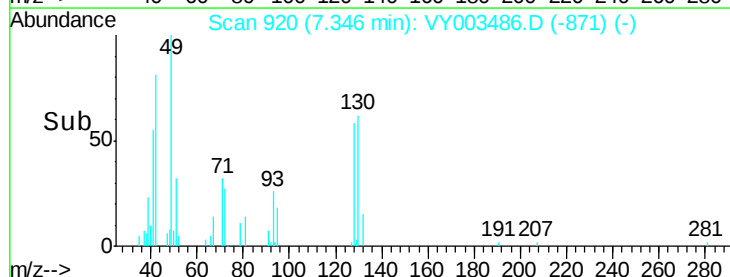
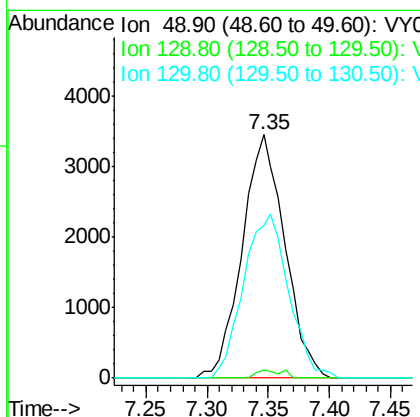
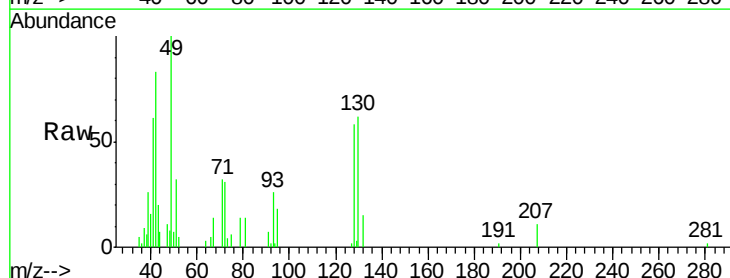
Manual Integrations
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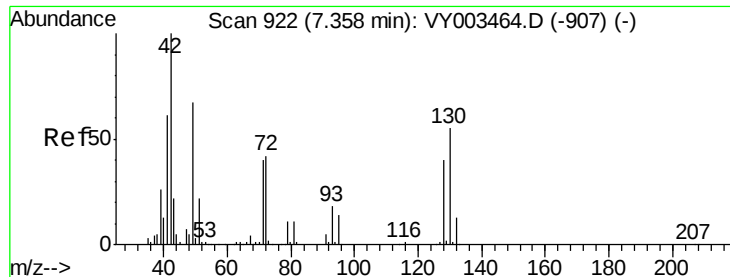
MMDadoda
 11/4/2020 11:57:46 AM



#28
 Bromochloromethane
 Concen: 4.331 ug/l
 RT: 7.35 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	70.9	60.0	90.0





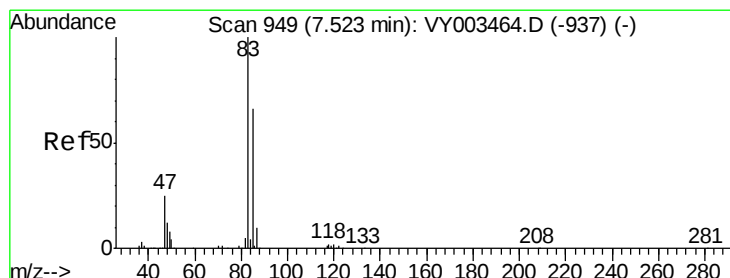
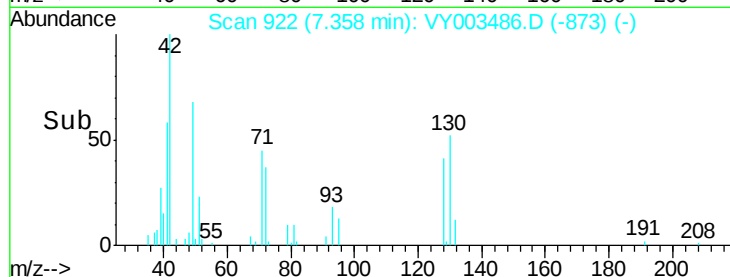
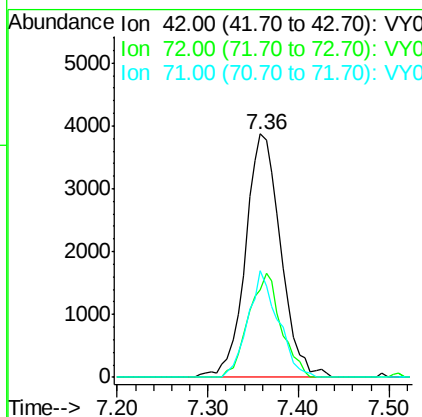
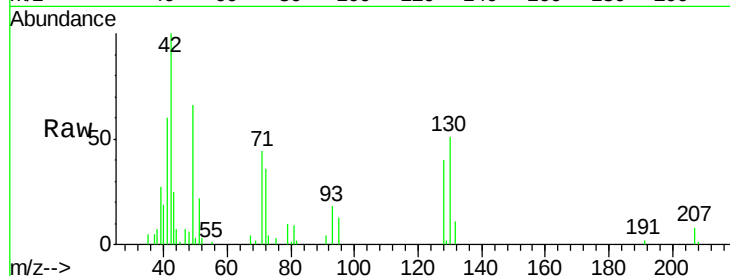
#29
Tetrahydrofuran
Concen: 20.312 ug/l
RT: 7.36 min Scan# 922
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.1	32.8	49.2
71	37.5	30.7	46.1

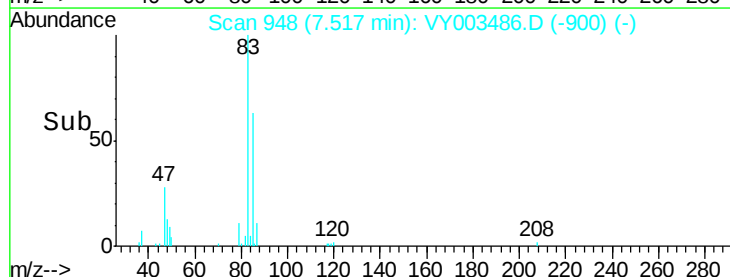
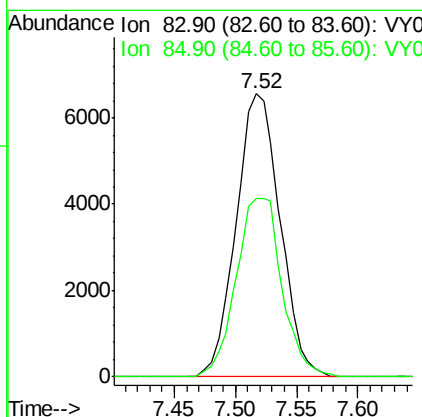
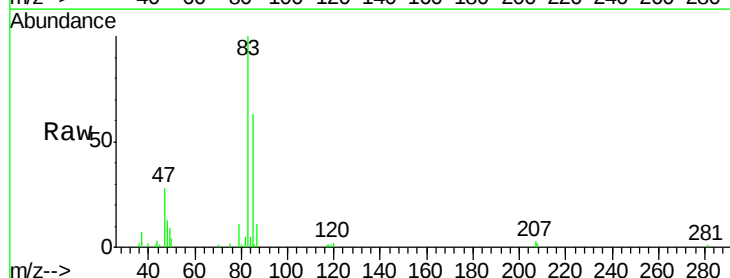
Manual Integrations
APPROVED

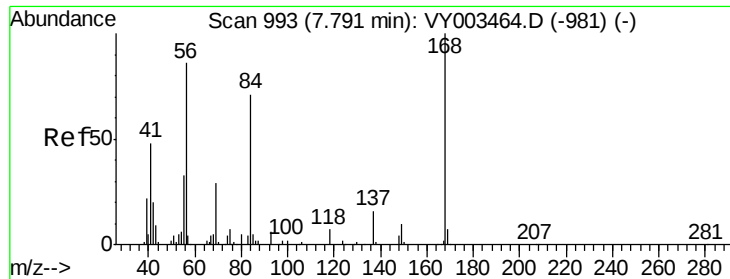
MMDadoda
11/4/2020 11:57:46 AM



#30
Chloroform
Concen: 4.329 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.6	79.0





#31

Cyclohexane

Concen: 5.243 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

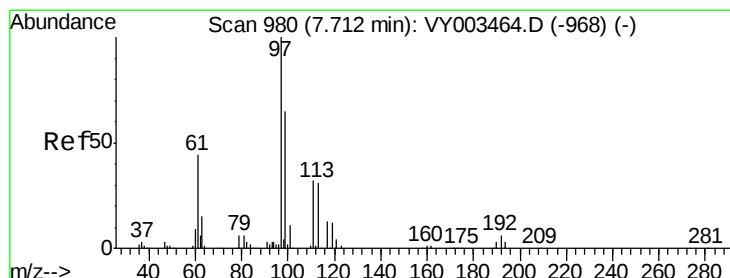
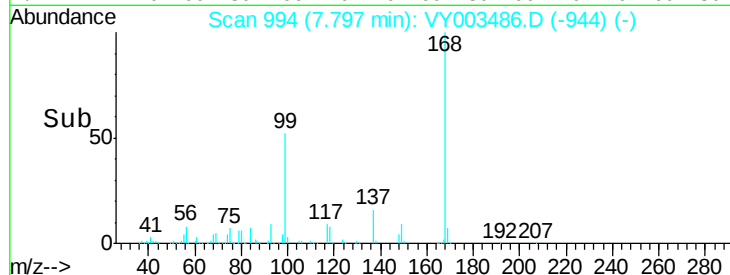
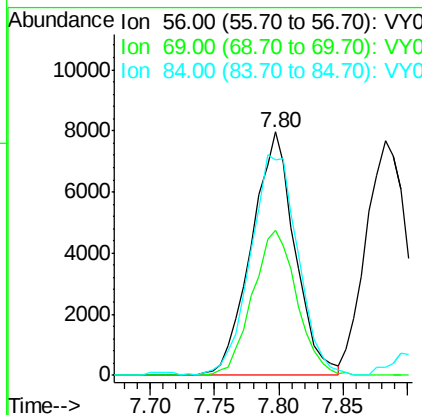
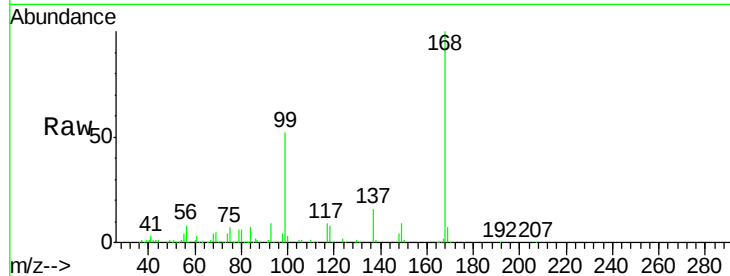
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	56	Resp:	18666
Ion Ratio	Lower	Upper	
56	100		
69	59.8	26.6	39.8#
84	88.1	65.9	98.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 4.394 ug/l

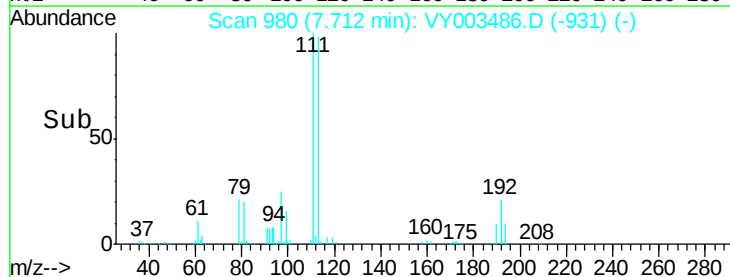
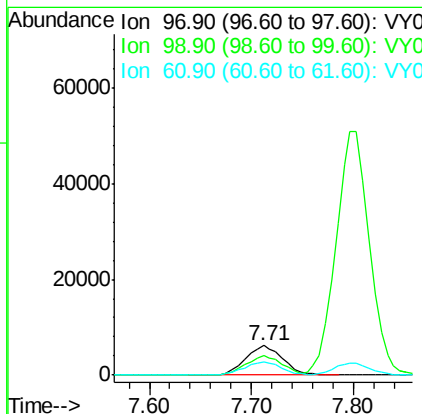
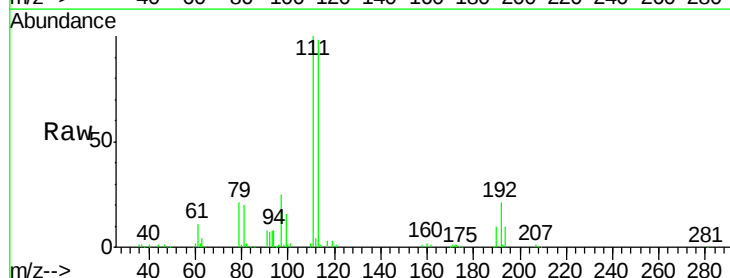
RT: 7.71 min Scan# 980

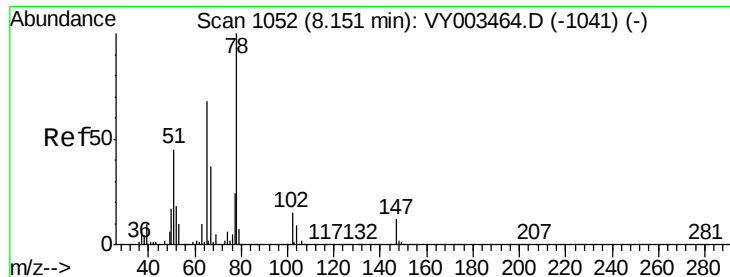
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	97	Resp:	15481
Ion Ratio	Lower	Upper	
97	100		
99	63.1	51.6	77.4
61	44.5	35.1	52.7





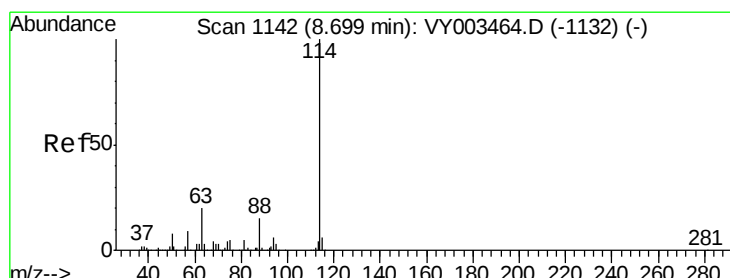
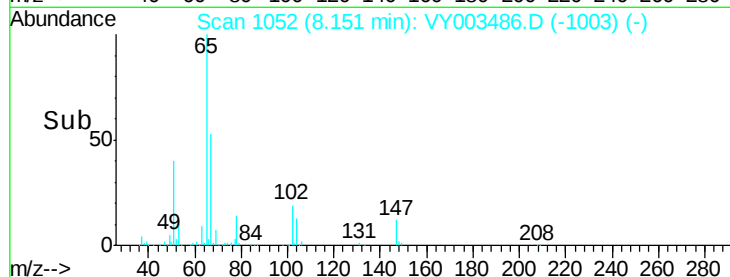
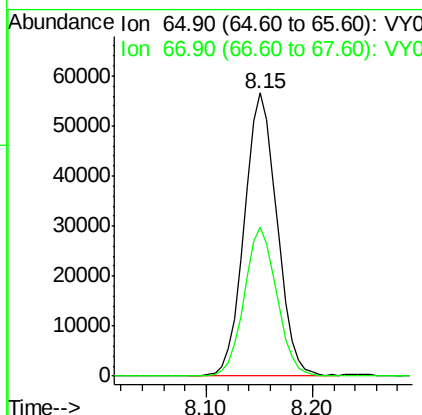
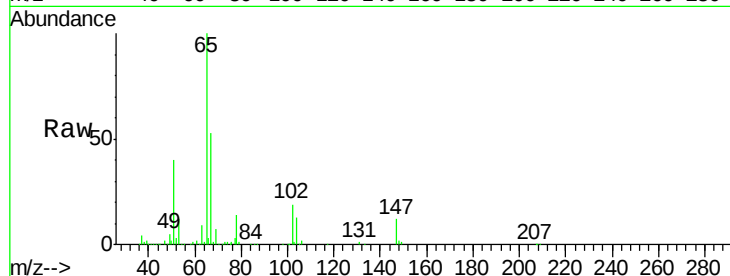
#33
 1,2-Dichloroethane-d4
 Concen: 51.438 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.3	0.0	106.0	

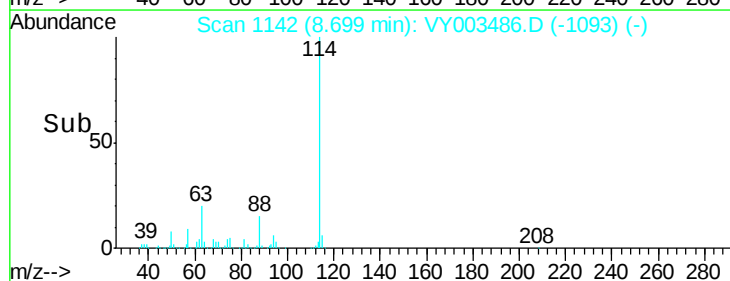
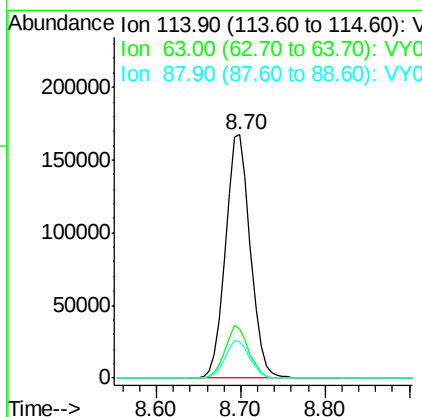
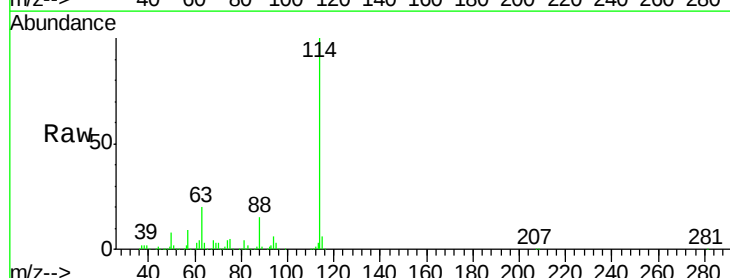
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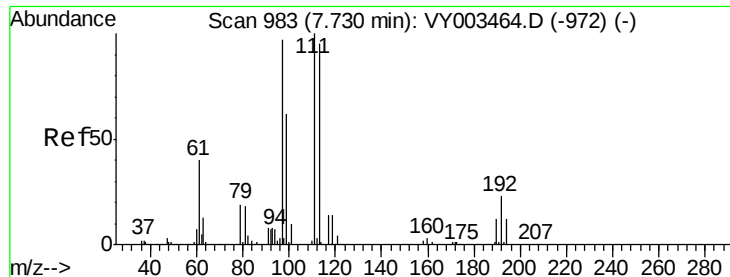
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 11/4/2020 11:57:46 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.4	0.0	40.6	
88	15.0	0.0	29.4	





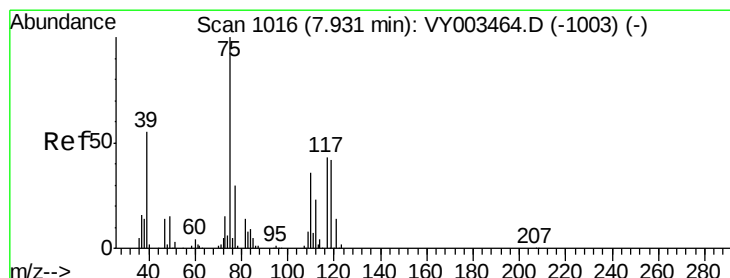
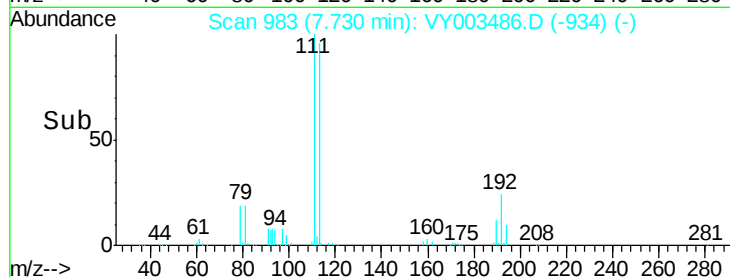
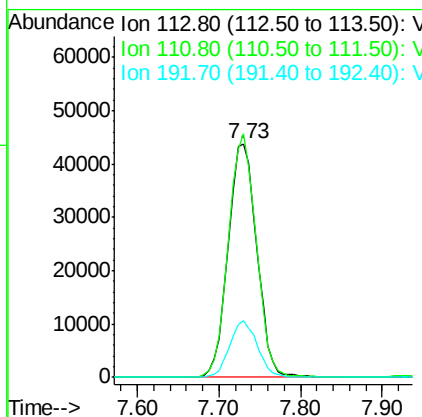
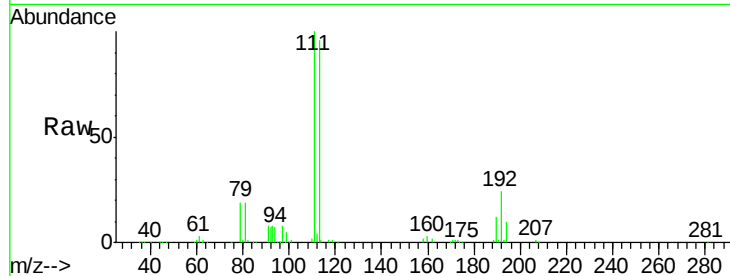
#35
Dibromofluoromethane
Concen: 51.823 ug/l
RT: 7.73 min Scan# 983
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.8	122.6
192	23.4	18.8	28.2

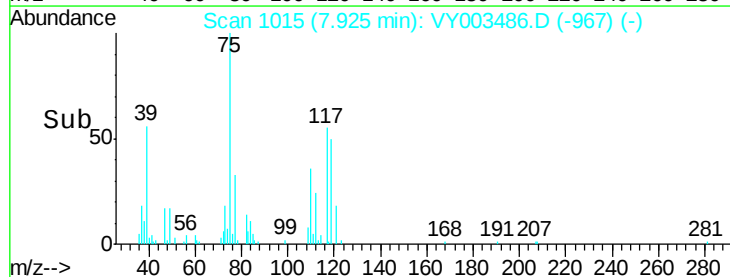
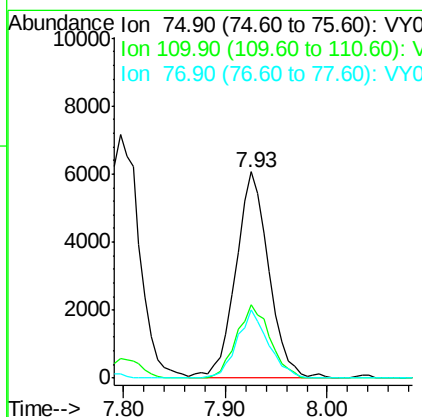
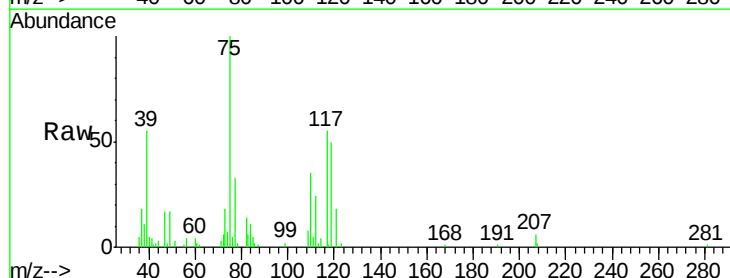
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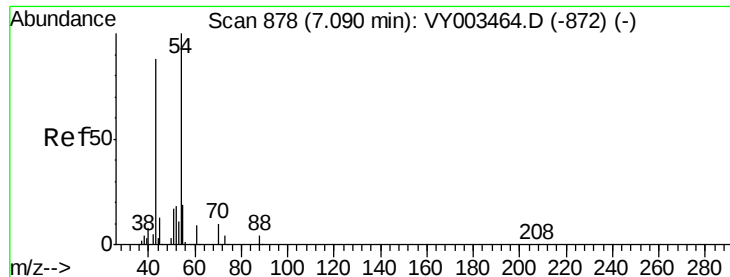
MMDadoda
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#36
1,1-Dichloropropene
Concen: 4.288 ug/l
RT: 7.93 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.6	52.9
77	31.0	24.7	37.1





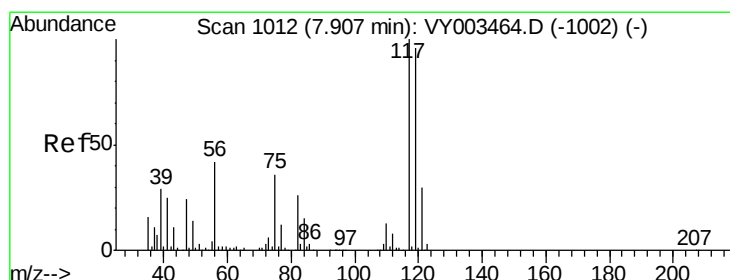
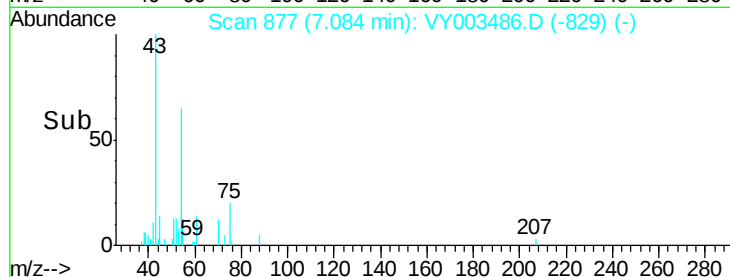
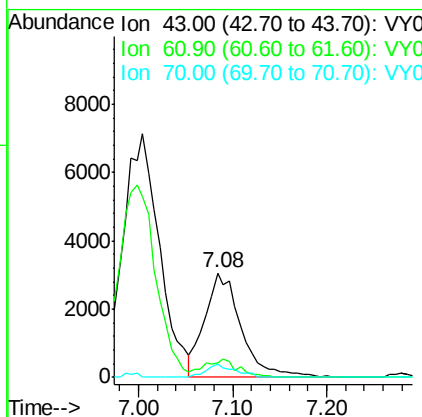
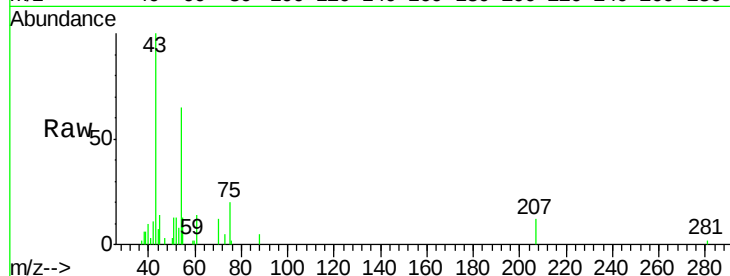
#37
Ethyl Acetate
Concen: 4.165 ug/l
RT: 7.08 min Scan# 877
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.3	11.0	16.6
70	9.7	7.9	11.9

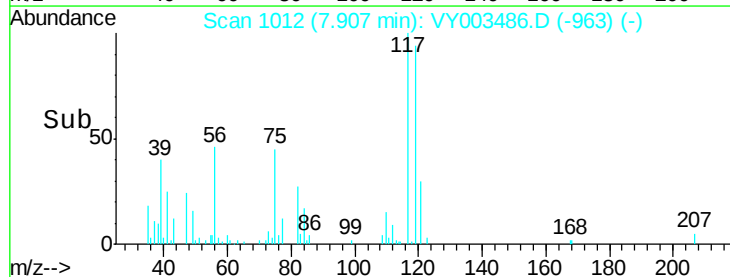
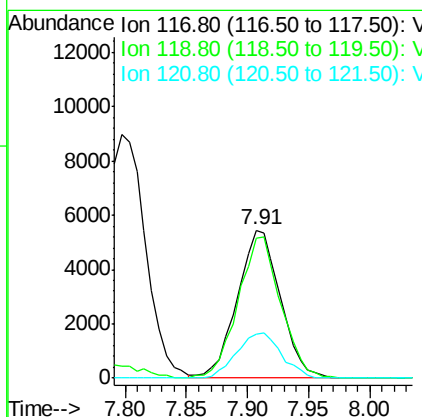
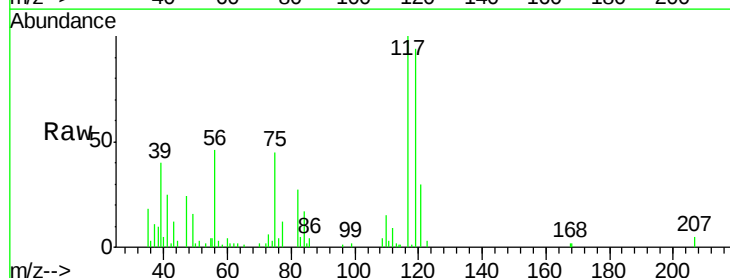
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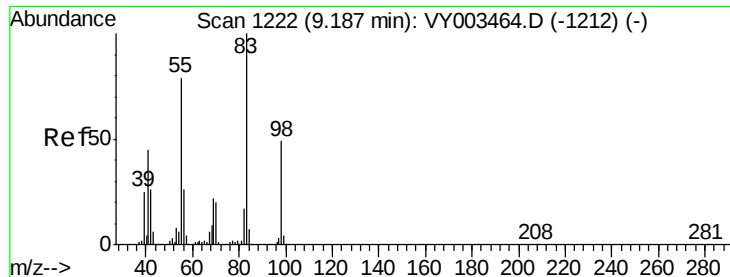
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#38
Carbon Tetrachloride
Concen: 4.058 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.2	114.4
121	29.5	24.2	36.4





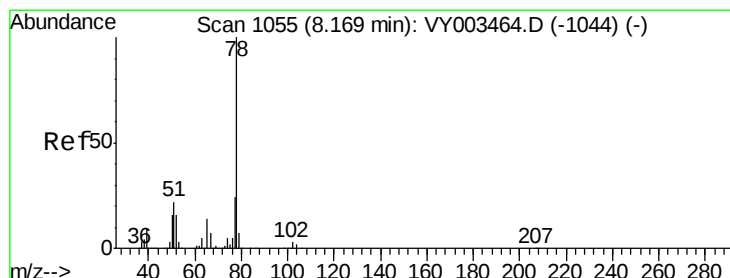
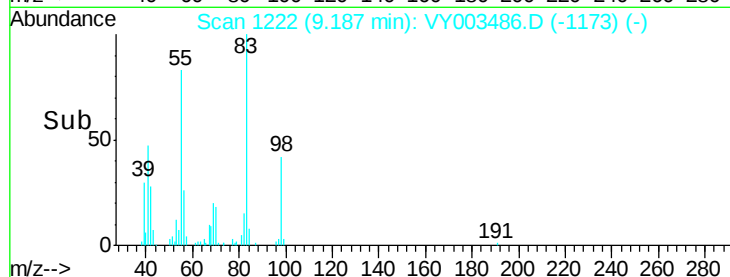
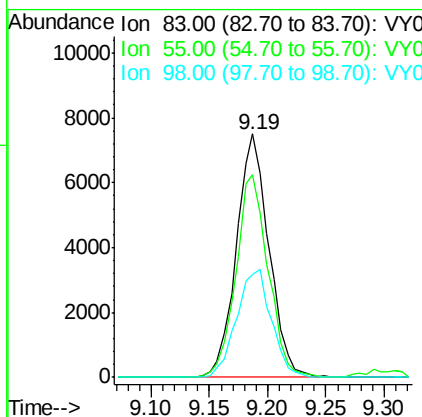
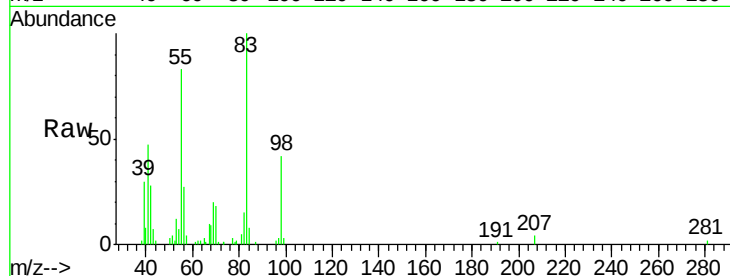
#39
Methylcyclohexane
Concen: 4.140 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.5	63.5	95.3
98	42.2	39.4	59.2

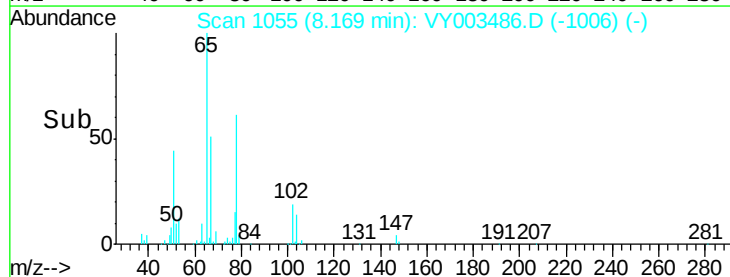
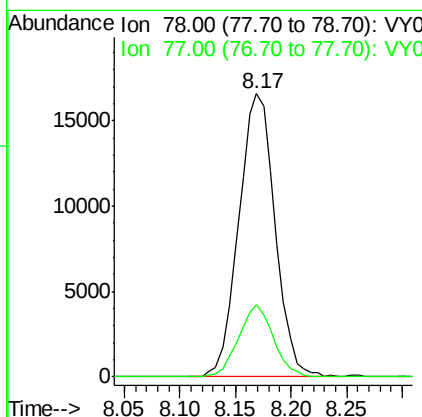
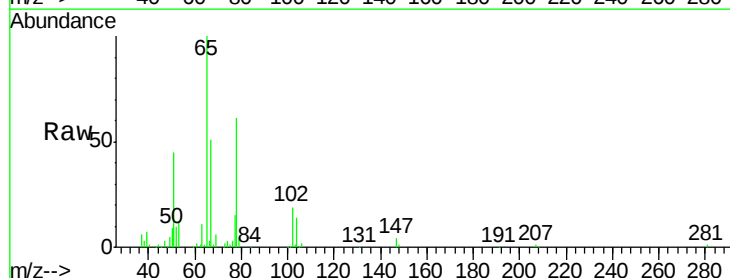
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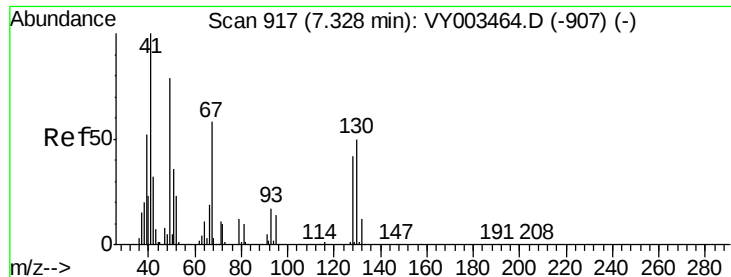
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#40
Benzene
Concen: 4.252 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	19.4	29.0





#41

Methacrylonitrile

Concen: 4.465 ug/l m

RT: 7.33 min Scan# 918

Delta R.T. 0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

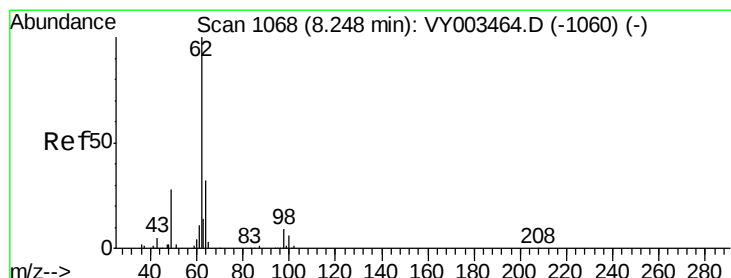
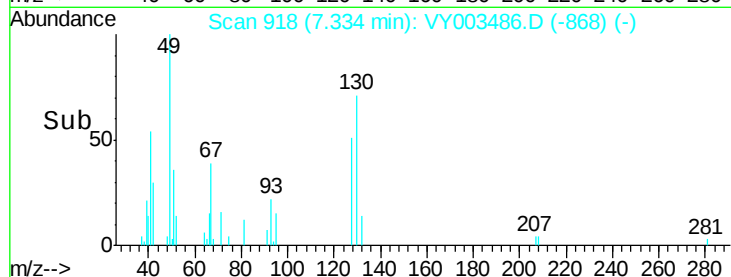
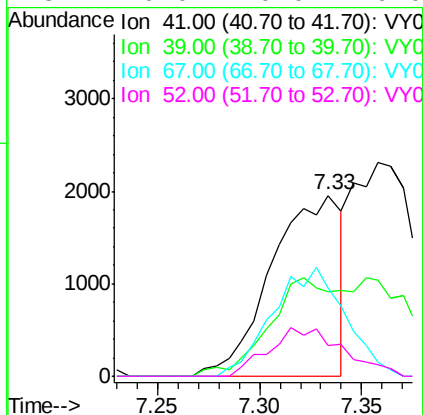
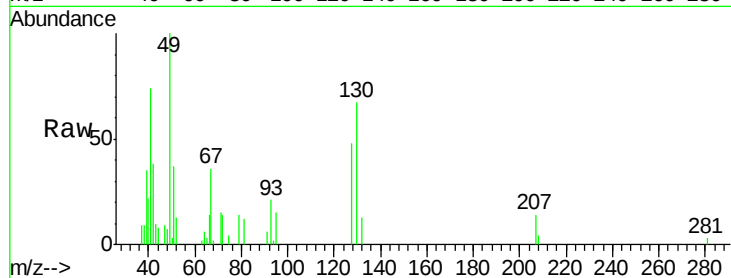
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	41	Resp:	4697
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
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MMDadoda
11/4/2020 11:57:46 AM



#42

1,2-Dichloroethane

Concen: 4.259 ug/l

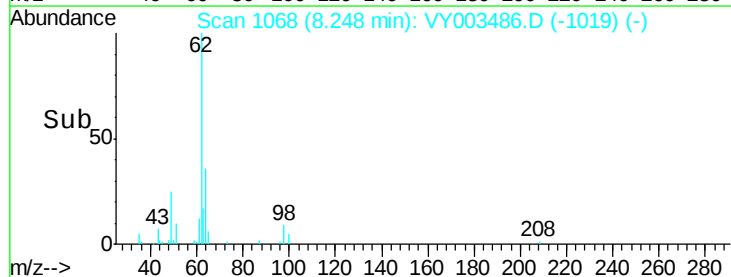
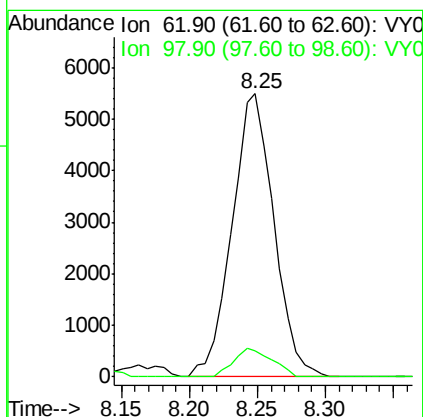
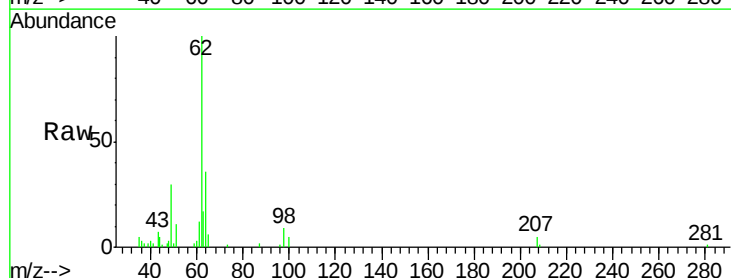
RT: 8.25 min Scan# 1068

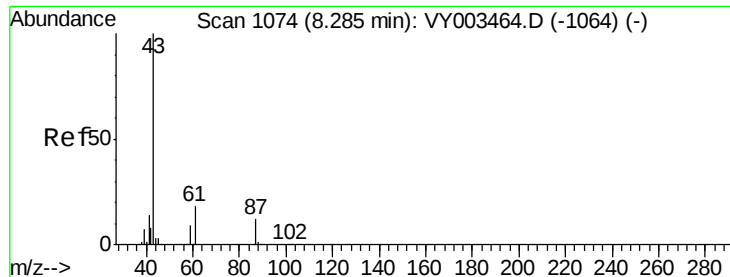
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	62	Resp:	11782
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.2





#43

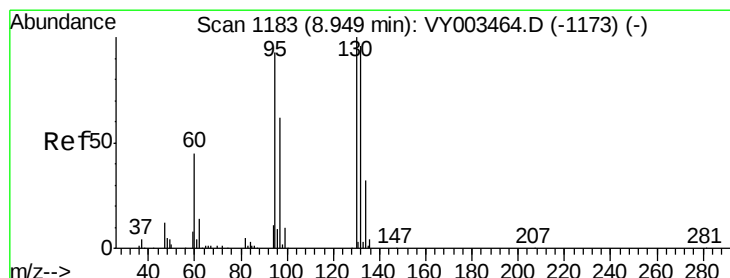
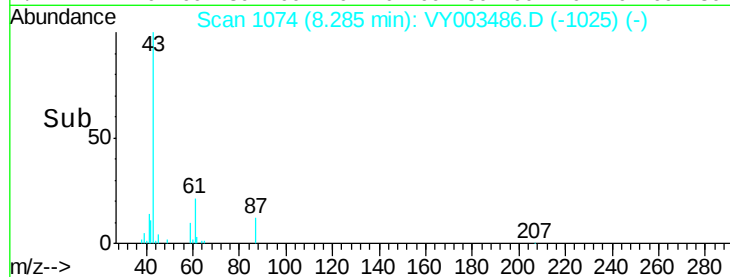
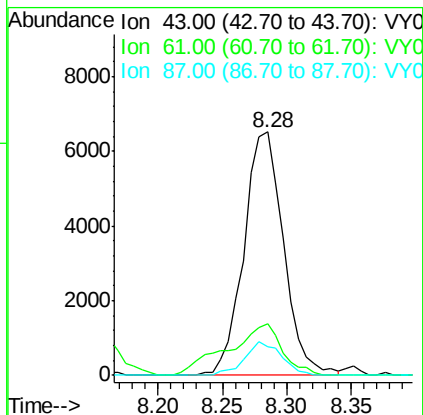
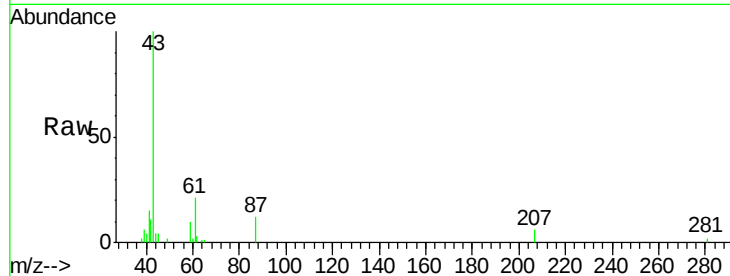
Isopropyl Acetate
 Concen: 3.928 ug/l
 RT: 8.28 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.0	21.9	32.9
87	12.8	10.0	15.0

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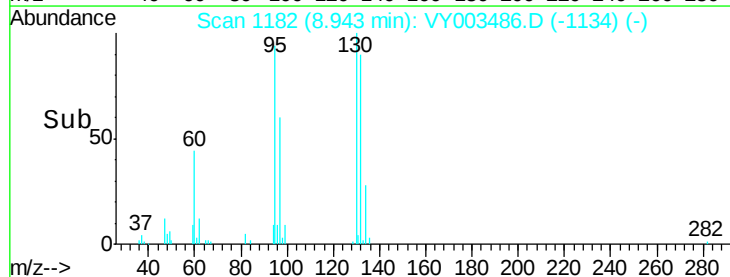
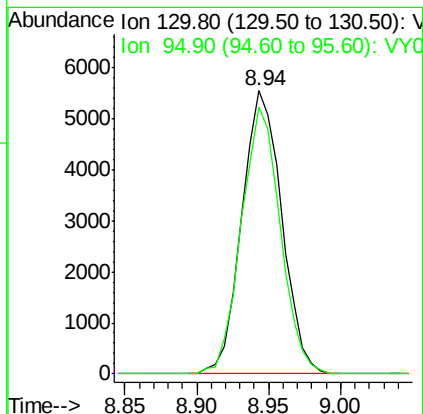
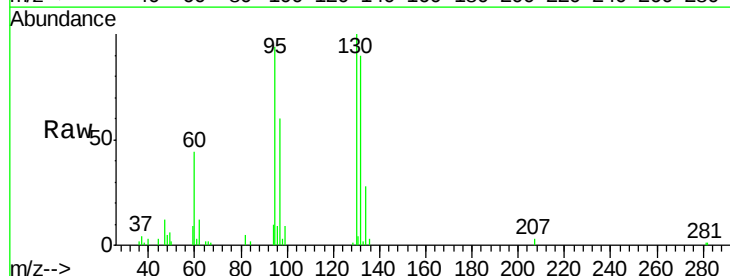
MMDadoda
 11/4/2020 11:57:46 AM

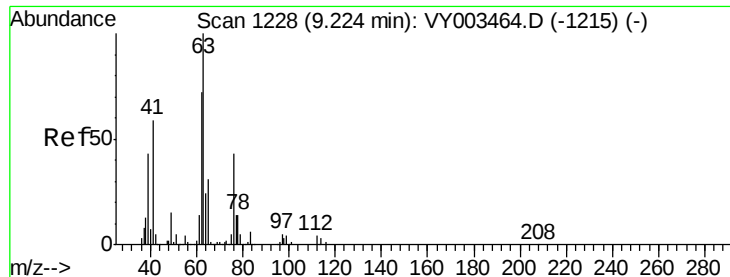


#44

Trichloroethene
 Concen: 4.285 ug/l
 RT: 8.94 min Scan# 1182
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	186.6





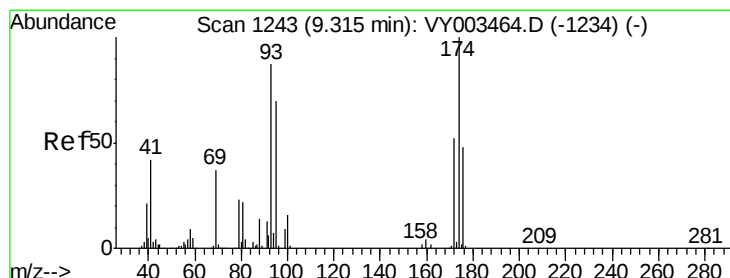
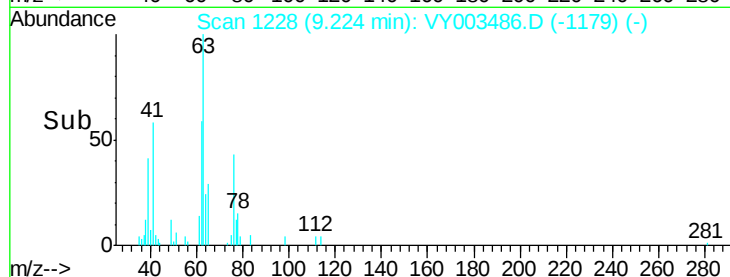
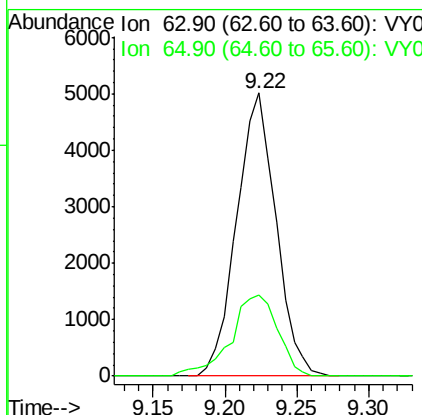
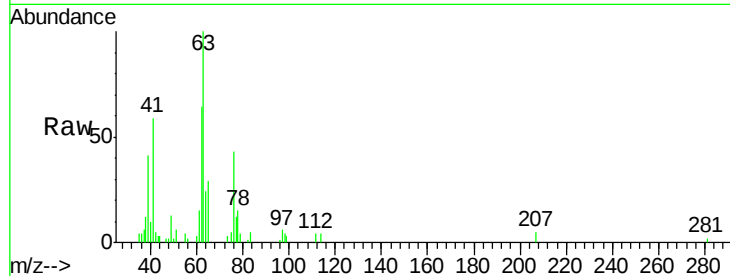
#45
 1,2-Dichloropropane
 Concen: 4.255 ug/l
 RT: 9.22 min Scan# 1228
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	63	Resp	9487
Ion Ratio	Lower	Upper	
63	100		
65	28.7	24.6	36.8

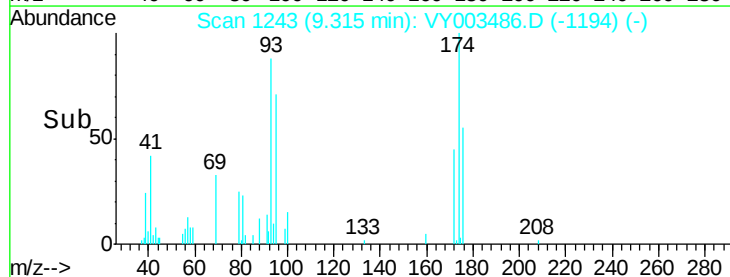
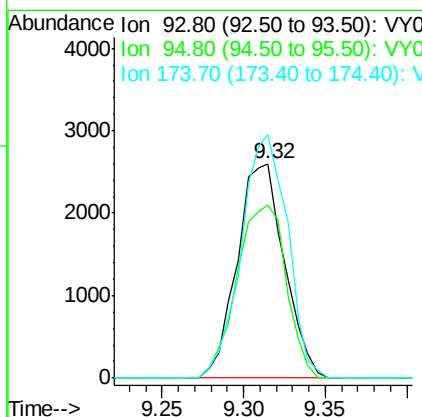
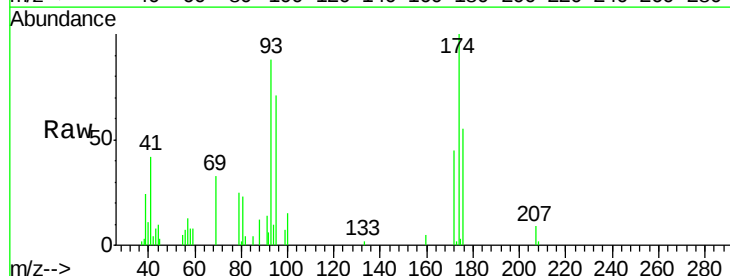
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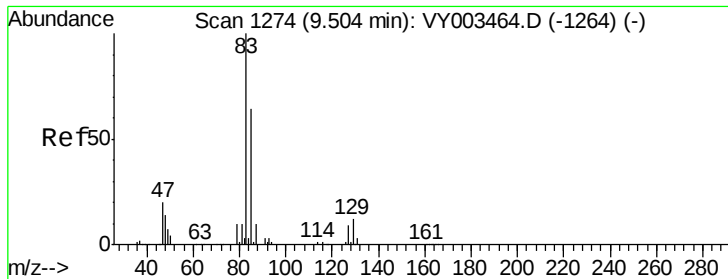
MMDadoda
 11/4/2020 11:57:46 AM



#46
 Dibromomethane
 Concen: 4.271 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	93	Resp	5238
Ion Ratio	Lower	Upper	
93	100		
95	84.0	65.0	97.6
174	110.9	91.8	137.6





#47

Bromodichloromethane

Concen: 4.160 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

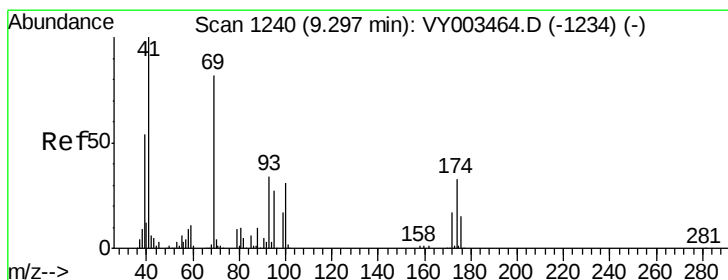
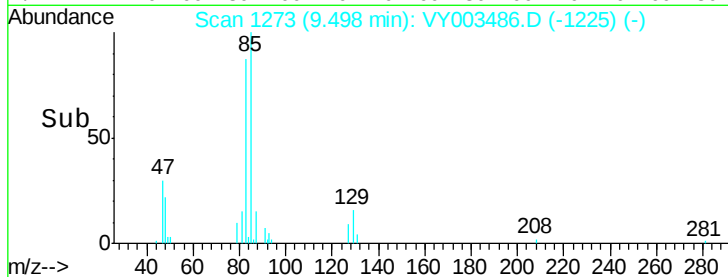
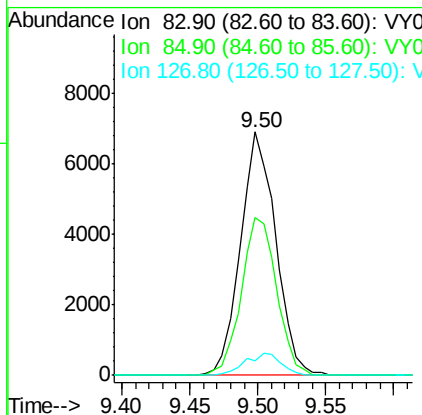
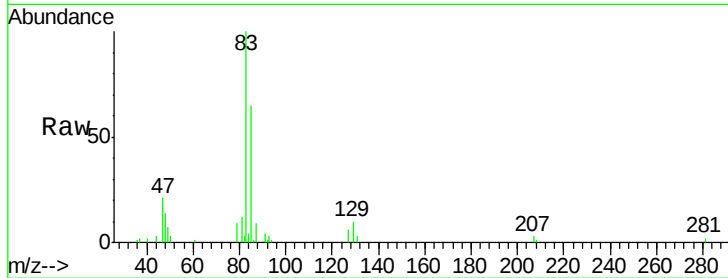
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	83	Resp:	12489
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.0	76.6
127	5.7	7.1	10.7#

Manual Integrations
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11/4/2020 11:57:46 AM



#48

Methyl methacrylate

Concen: 3.700 ug/l

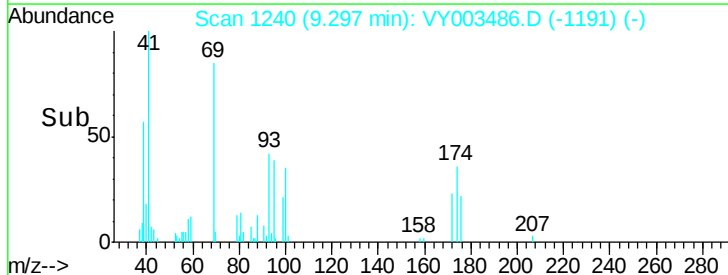
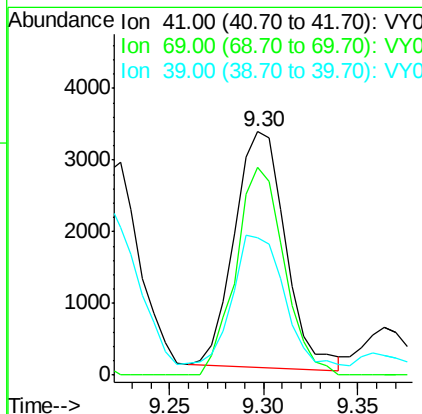
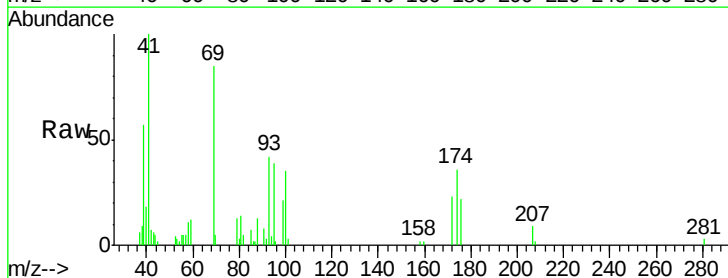
RT: 9.30 min Scan# 1240

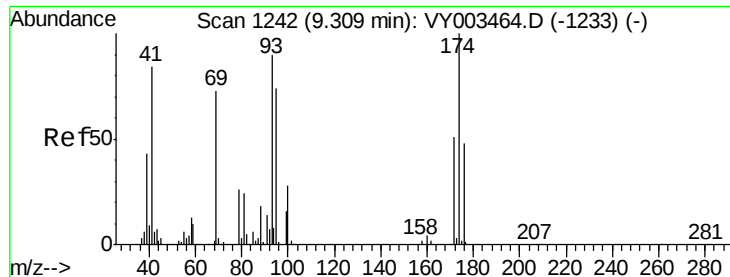
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	41	Resp:	6170
Ion Ratio	Lower	Upper	
41	100		
69	83.5	65.9	98.9
39	65.4	43.2	64.8#





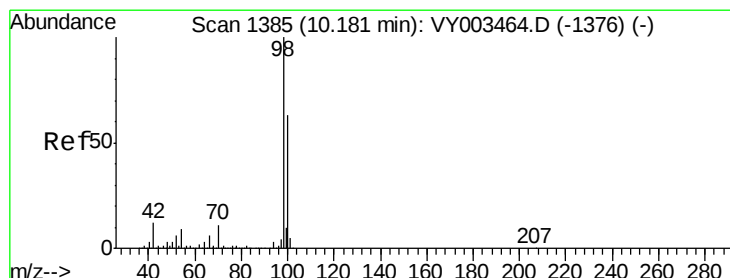
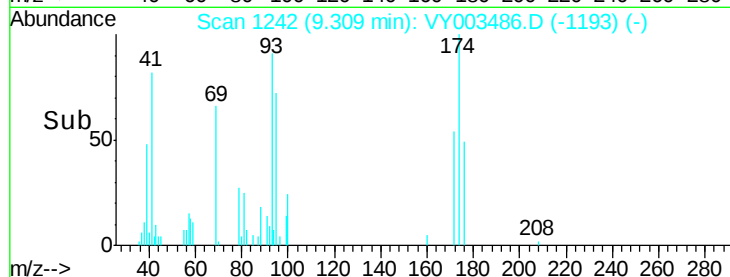
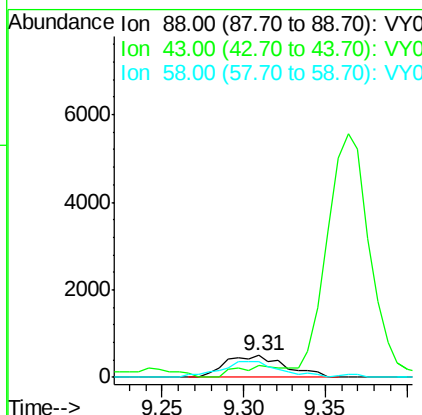
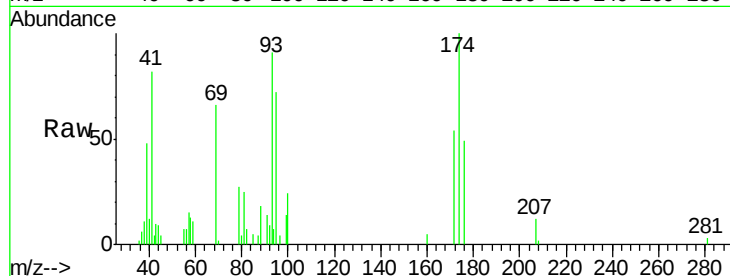
#49
1,4-Dioxane
Concen: 82.265 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.6	27.6	41.4
58	71.6	54.2	81.2

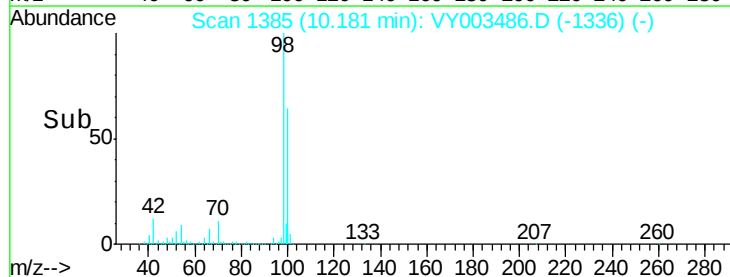
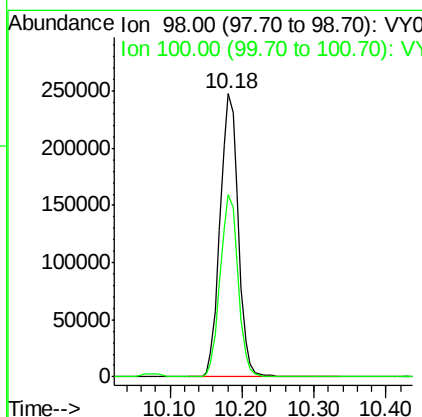
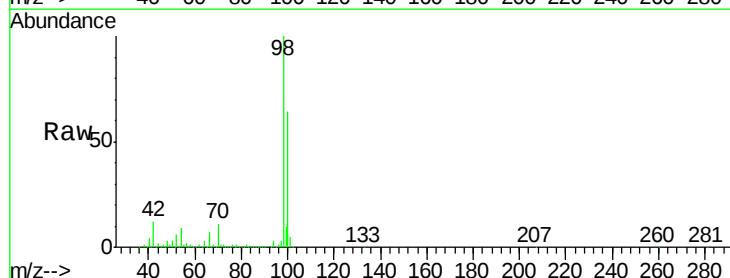
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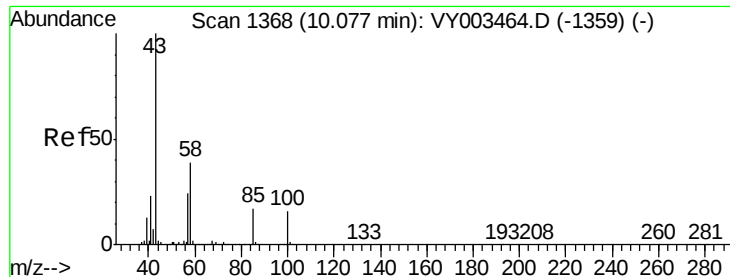
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#50
Toluene-d8
Concen: 50.983 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 20.860 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 39346

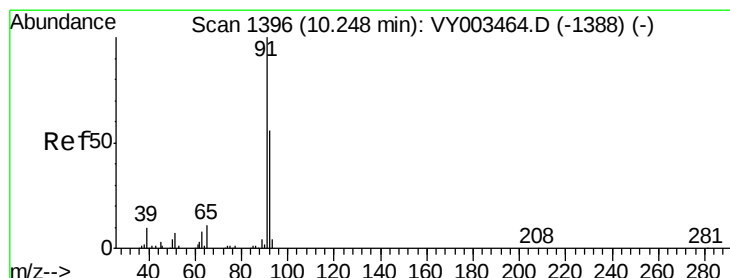
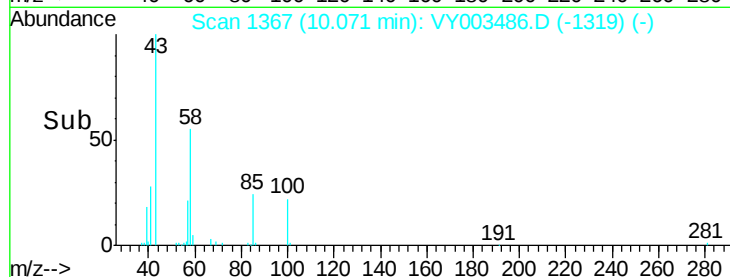
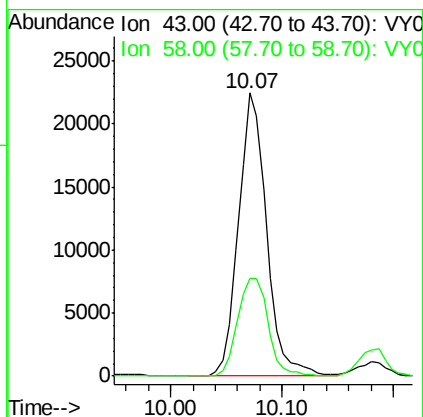
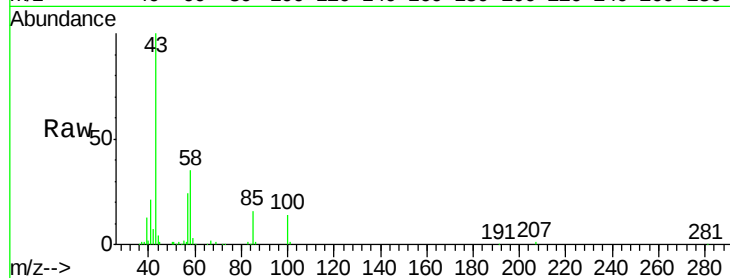
Ion Ratio Lower Upper

43 100

58 37.8 31.0 46.4

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#52

Toluene

Concen: 4.198 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY003486.D

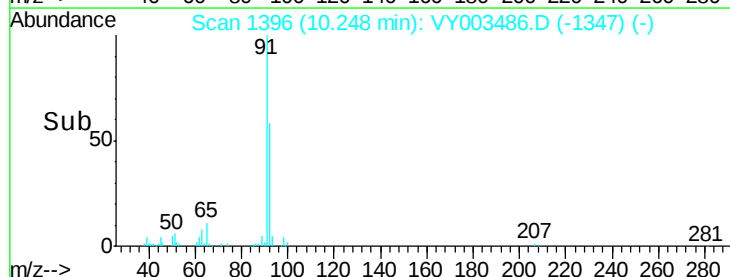
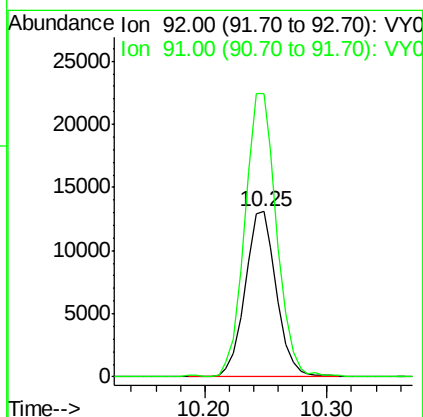
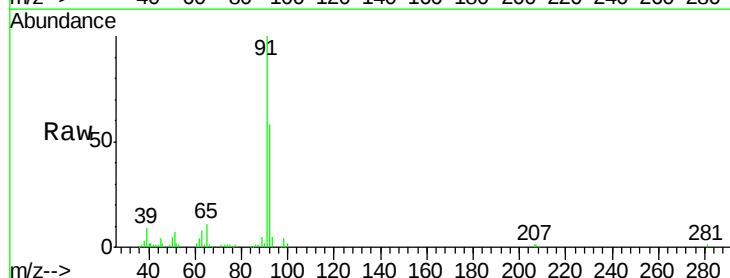
Acq: 03 Nov 2020 12:54

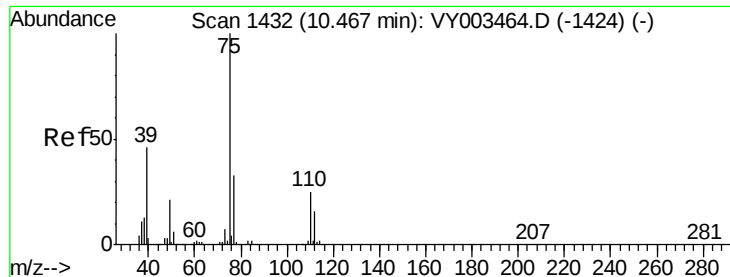
Tgt Ion: 92 Resp: 23180

Ion Ratio Lower Upper

92 100

91 174.7 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 4.034 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 12889

Ion Ratio Lower Upper

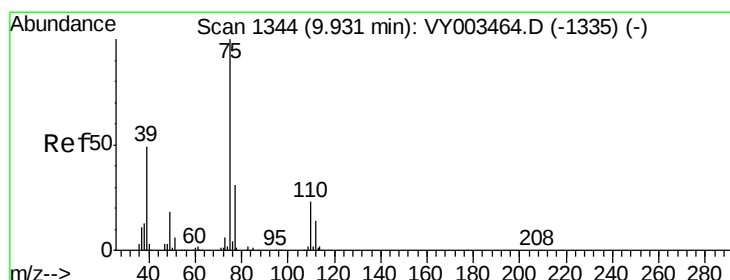
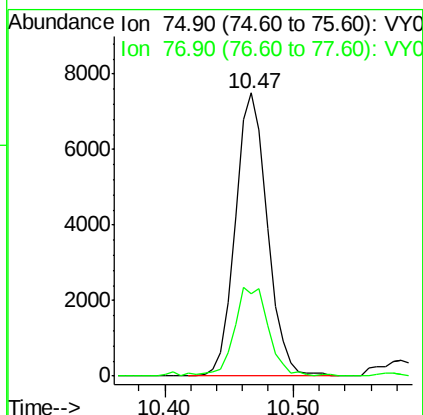
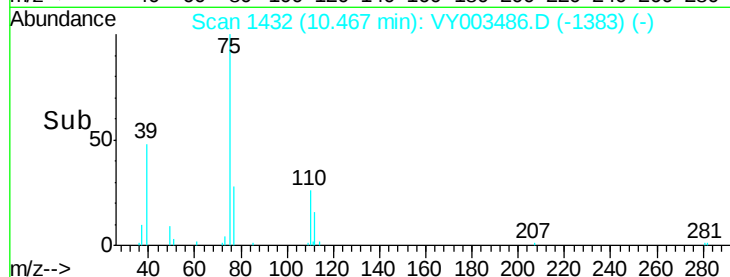
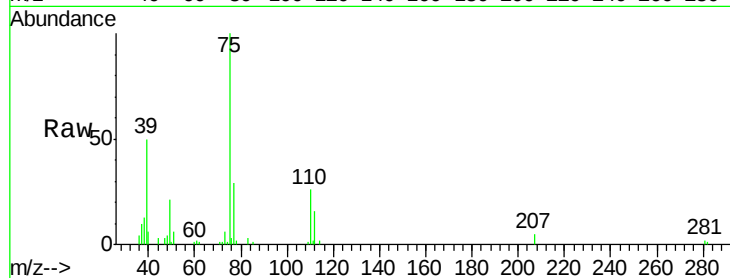
75 100

77 28.9 26.2 39.4

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#54

cis-1,3-Dichloropropene

Concen: 4.008 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

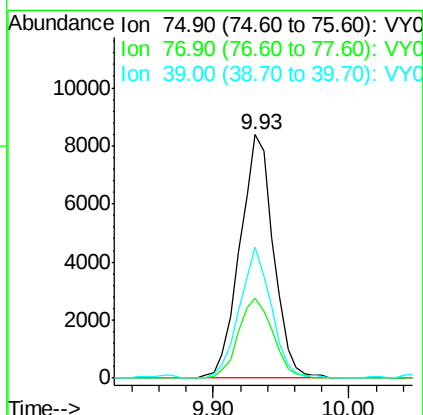
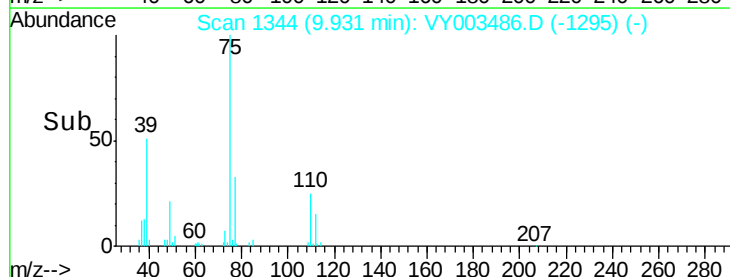
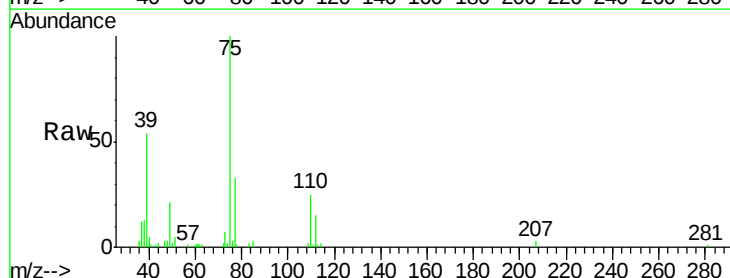
Tgt Ion: 75 Resp: 14408

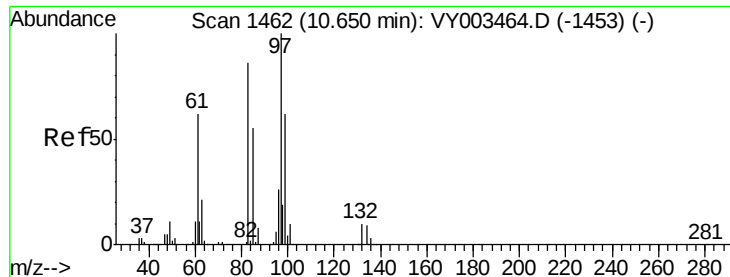
Ion Ratio Lower Upper

75 100

77 32.8 24.5 36.7

39 53.6 39.0 58.4





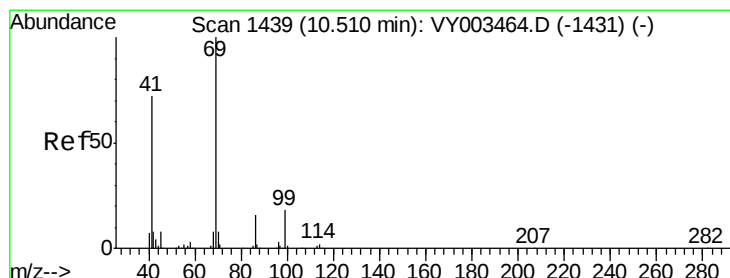
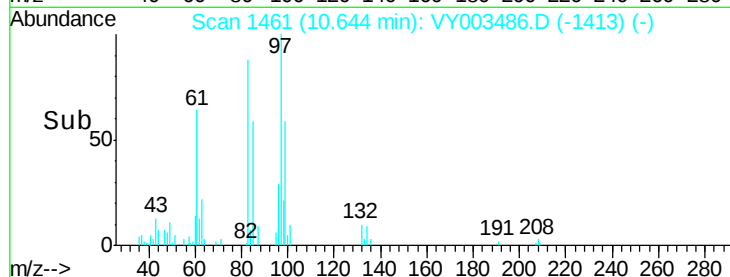
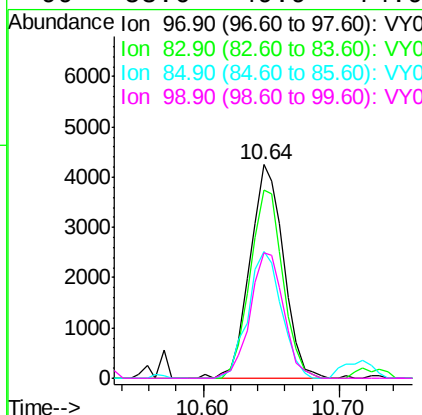
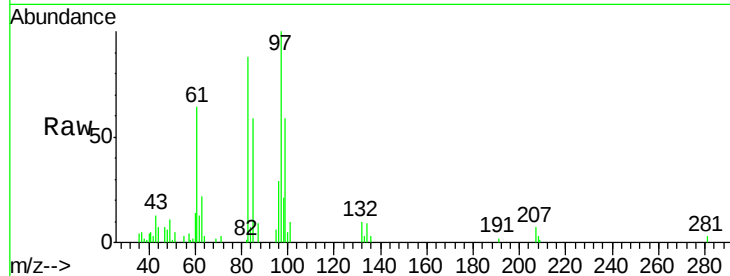
#55
 1,1,2-Trichloroethane
 Concen: 4.221 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	97	Resp:	7349
Ion	Ratio	Lower	Upper
97	100		
83	88.1	68.6	102.8
85	59.4	43.8	65.6
99	58.6	49.9	74.9

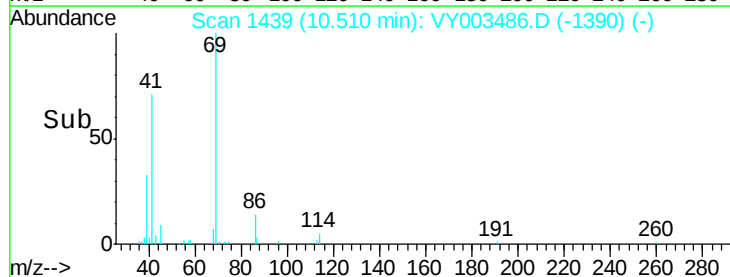
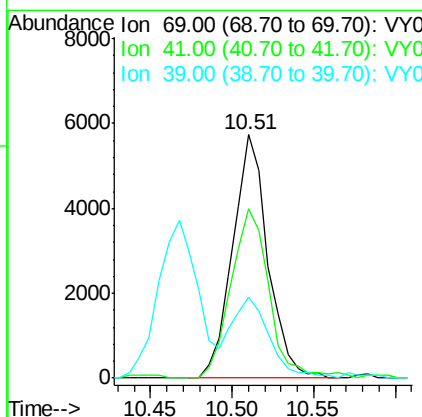
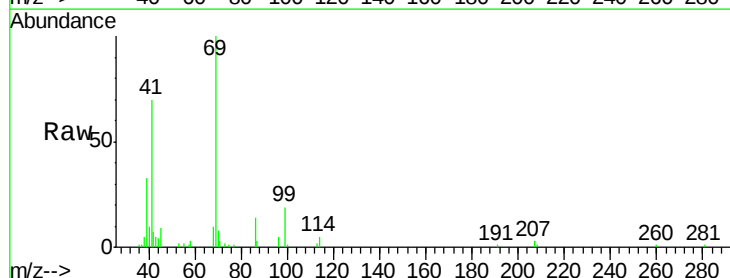
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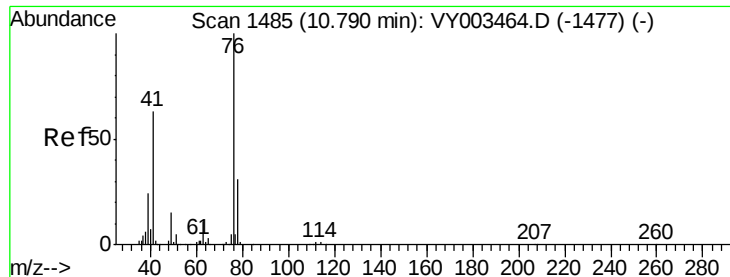
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#56
 Ethyl methacrylate
 Concen: 3.686 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion:	69	Resp:	8596
Ion	Ratio	Lower	Upper
69	100		
41	75.9	55.4	83.2
39	35.6	28.7	43.1





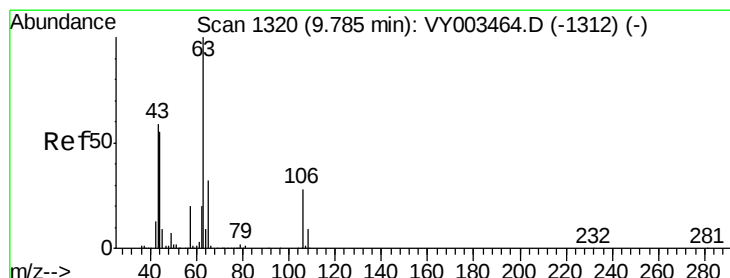
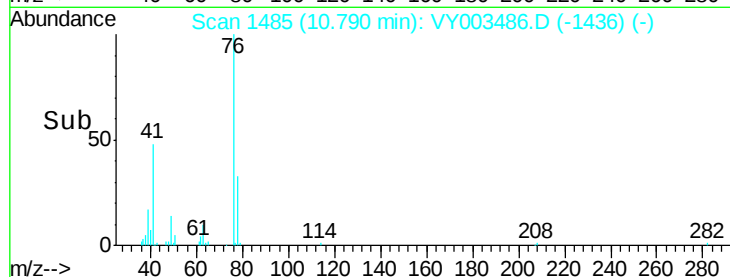
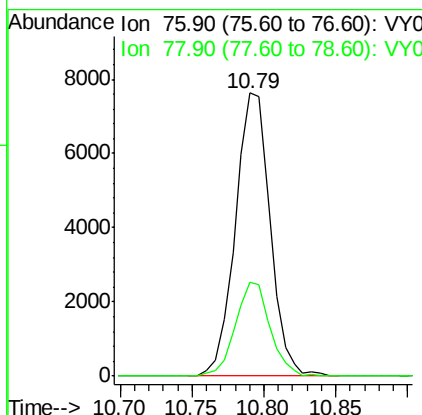
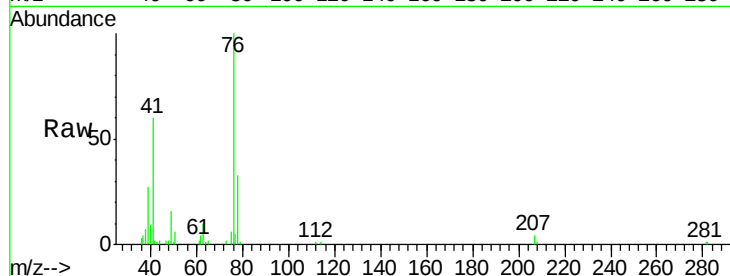
#57
 1,3-Dichloropropane
 Concen: 4.234 ug/l
 RT: 10.79 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.8

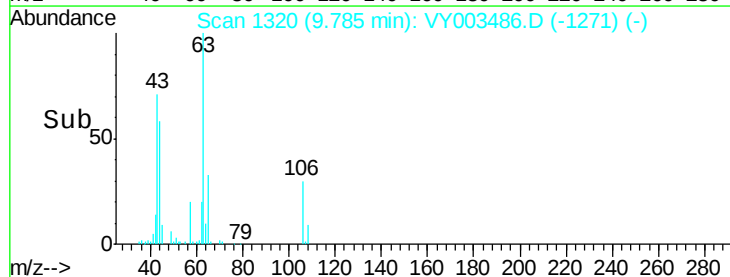
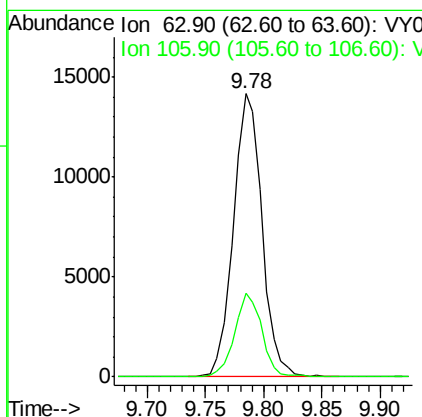
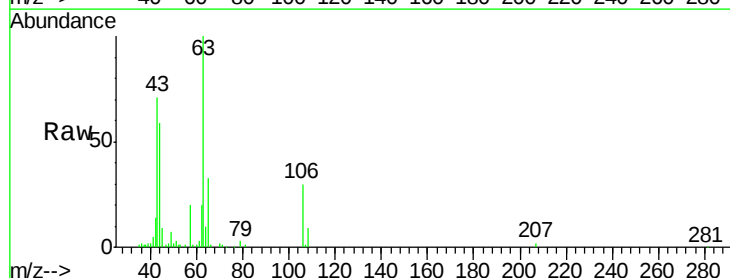
Manual Integrations
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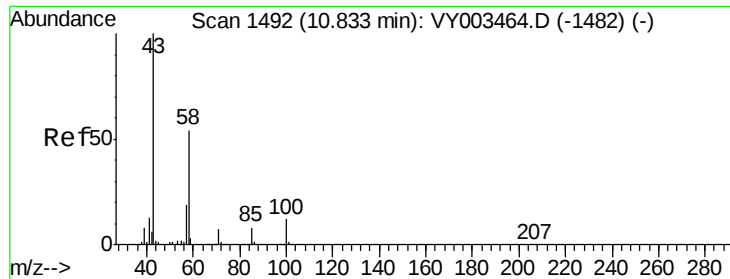
MMDadoda
 11/4/2020 11:57:46 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 20.485 ug/l
 RT: 9.78 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.3	33.5





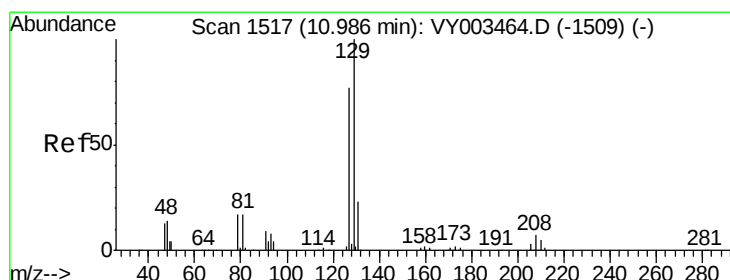
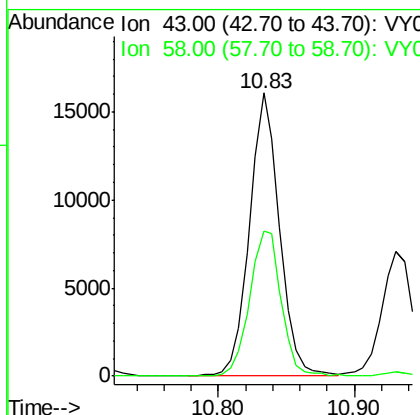
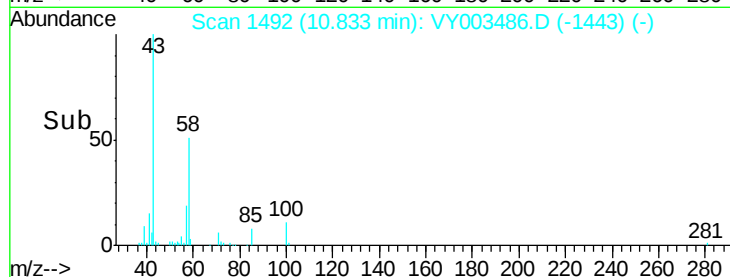
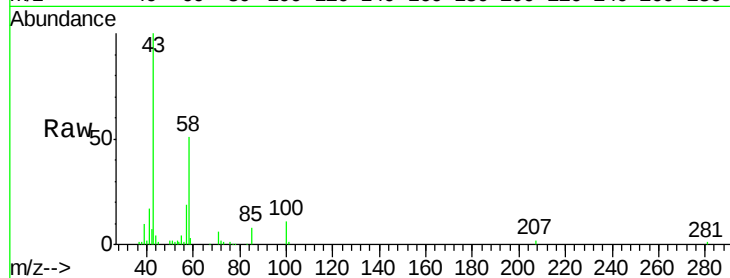
#59
2-Hexanone
Concen: 17.806 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 24867
Ion Ratio Lower Upper
43 100
58 54.0 26.8 80.3

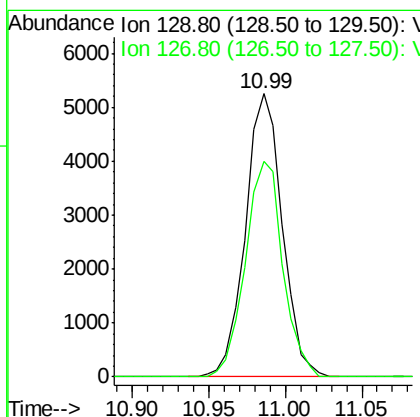
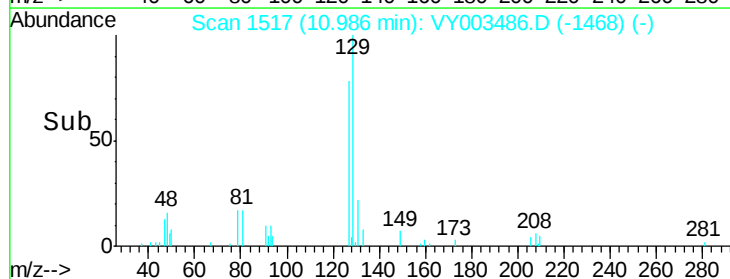
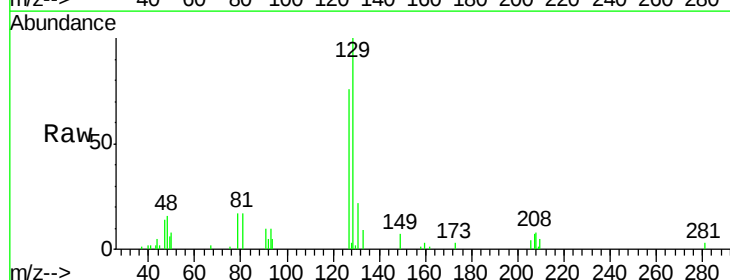
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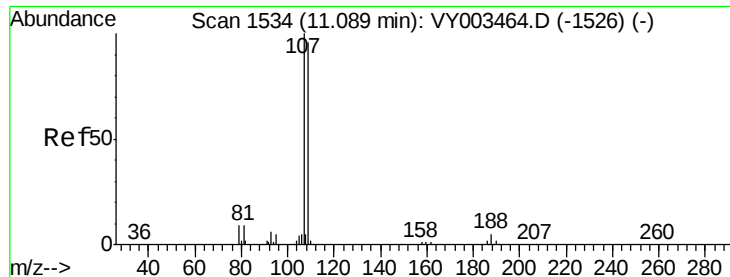
MMDadoda
11/4/2020 11:57:46 AM



#60
Dibromochloromethane
Concen: 4.102 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 129 Resp: 8778
Ion Ratio Lower Upper
129 100
127 77.4 38.8 116.3





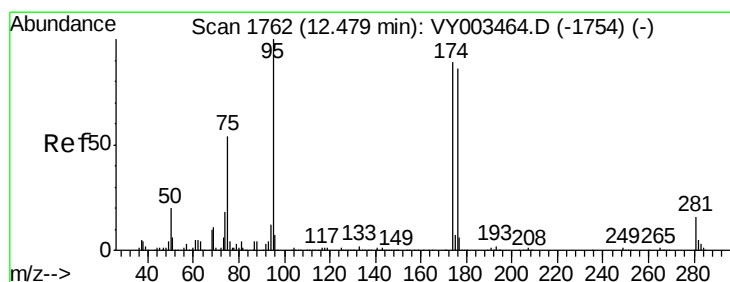
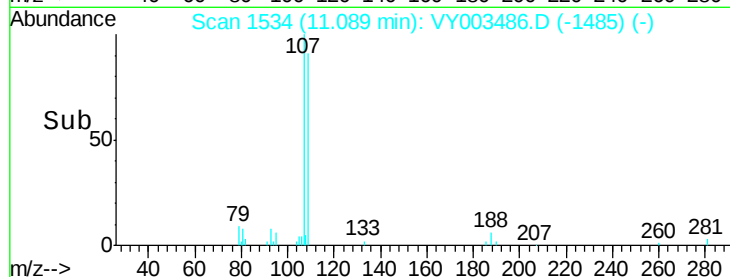
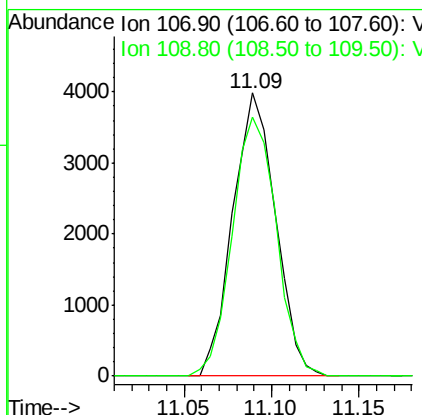
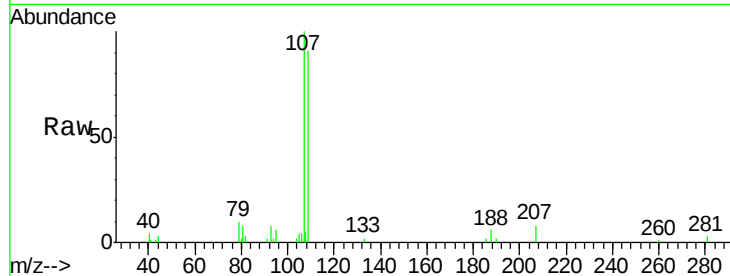
#61
 1,2-Dibromoethane
 Concen: 4.027 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion: 107 Resp: 6769
 Ion Ratio Lower Upper
 107 100
 109 94.6 76.5 114.7

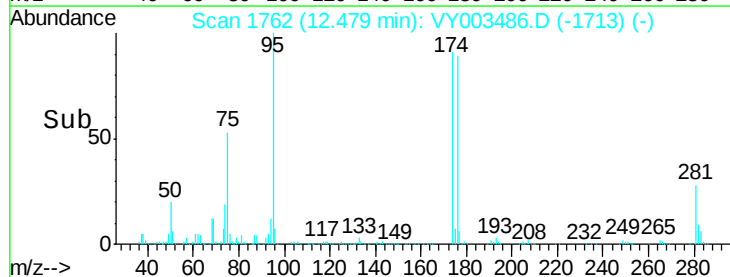
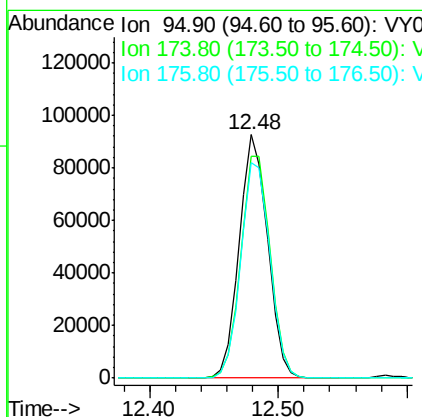
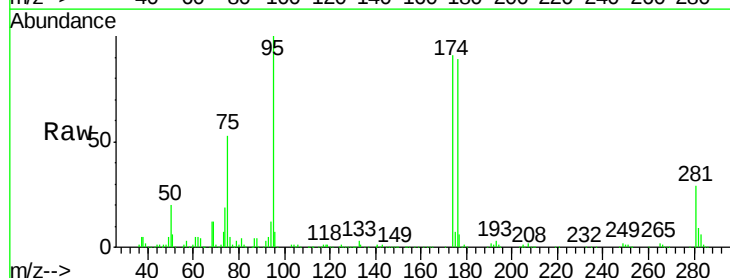
Manual Integrations
 APPROVED

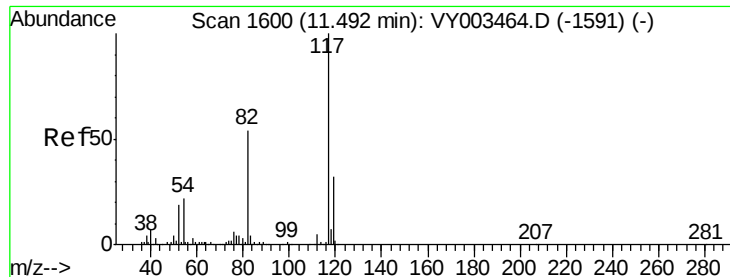
MMDadoda
 11/4/2020 11:57:46 AM



#62
 4-Bromofluorobenzene
 Concen: 50.001 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 95 Resp: 141108
 Ion Ratio Lower Upper
 95 100
 174 94.2 0.0 193.0
 176 91.0 0.0 187.4





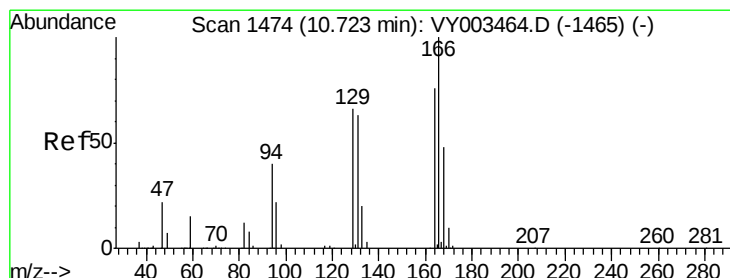
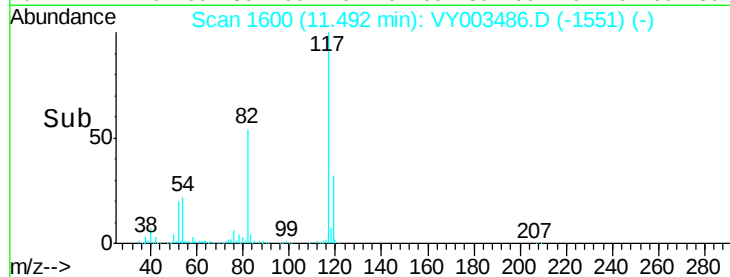
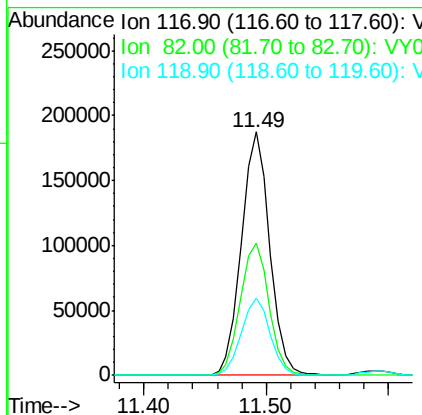
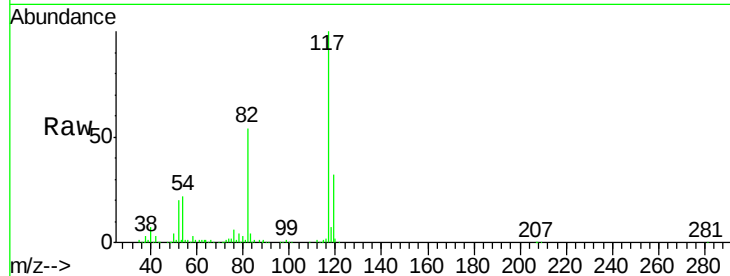
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	300625		
82	54.3		43.4	65.2
119	31.8		25.8	38.6

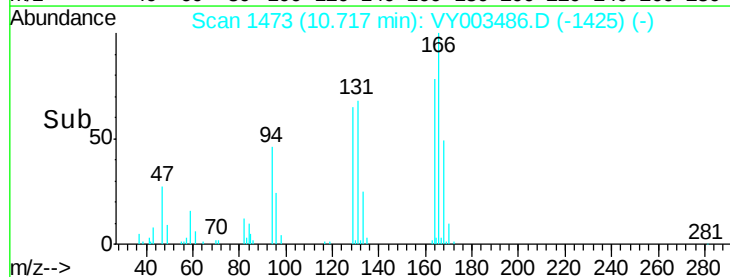
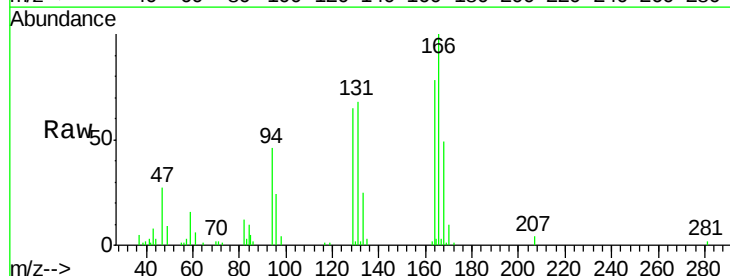
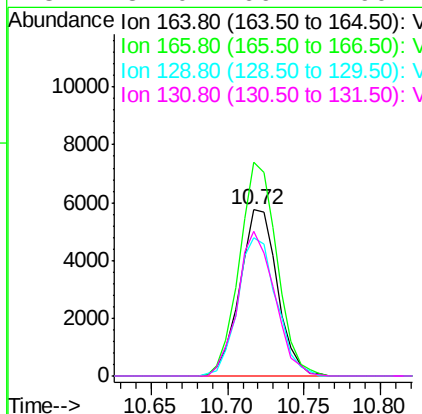
Manual Integrations
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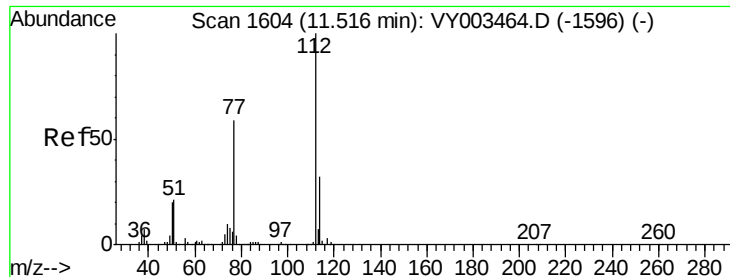
MMDadoda
11/4/2020 11:57:46 AM



#64
Tetrachloroethene
Concen: 4.382 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	9839		
166	128.5		104.9	157.3
129	83.0		68.9	103.3
131	87.0		66.2	99.2





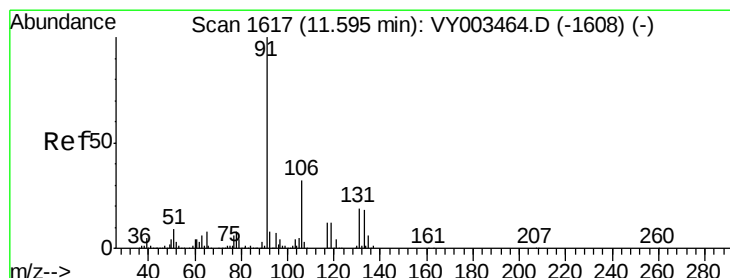
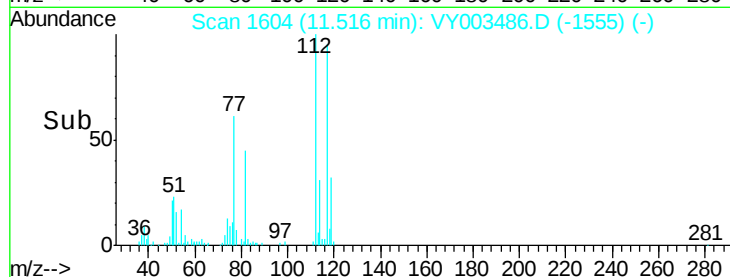
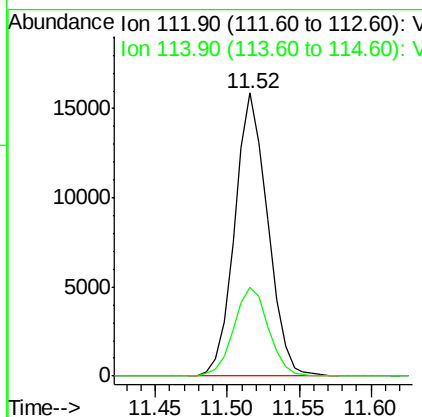
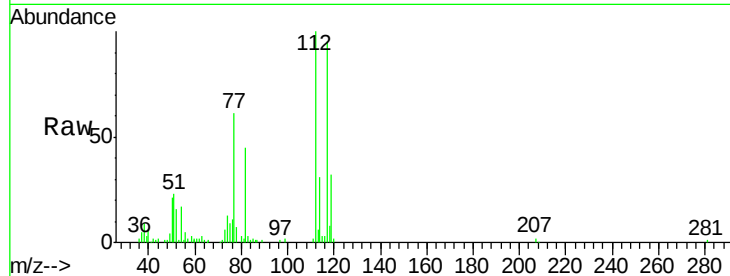
#65
Chlorobenzene
Concen: 4.333 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.5	38.3

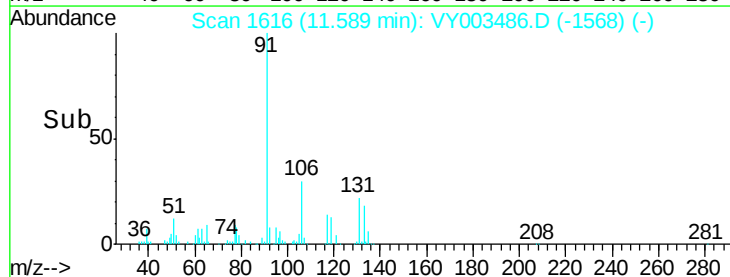
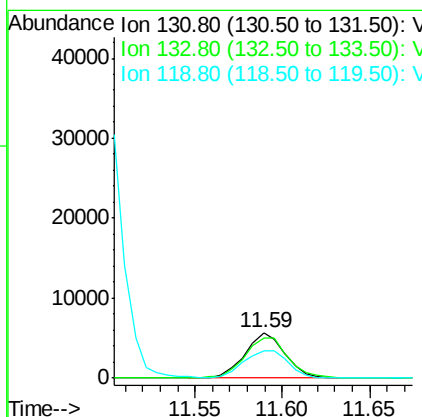
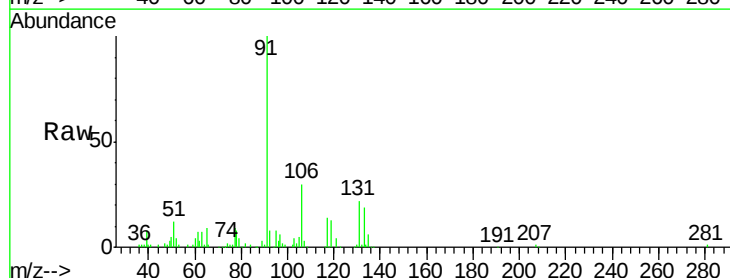
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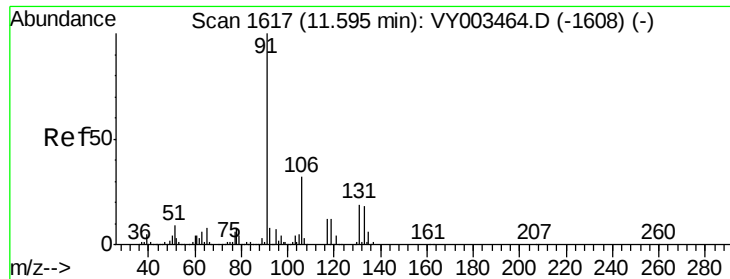
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.078 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.6	47.4	142.2
119	68.7	31.6	95.0





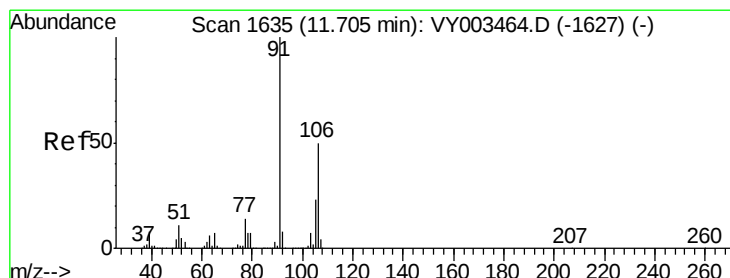
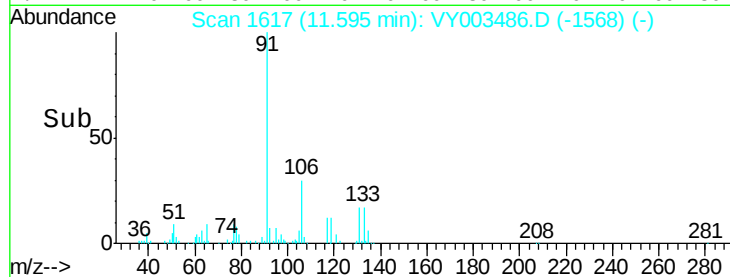
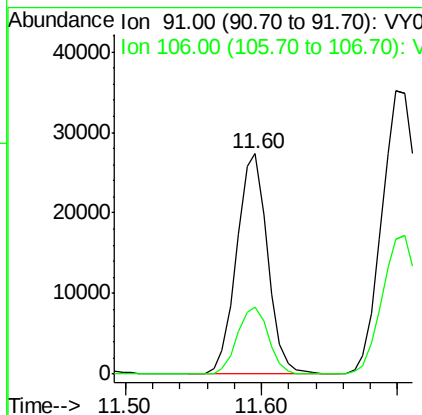
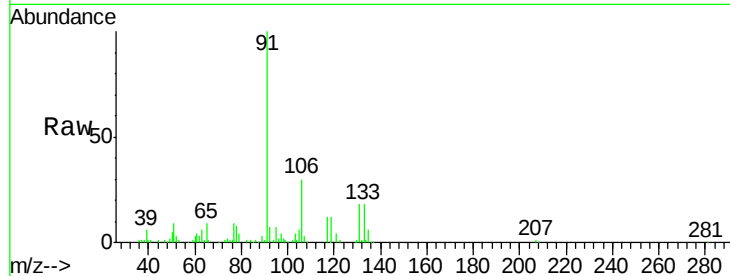
#67
Ethyl Benzene
Concen: 4.115 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 43578
Ion Ratio Lower Upper
91 100
106 30.2 25.4 38.0

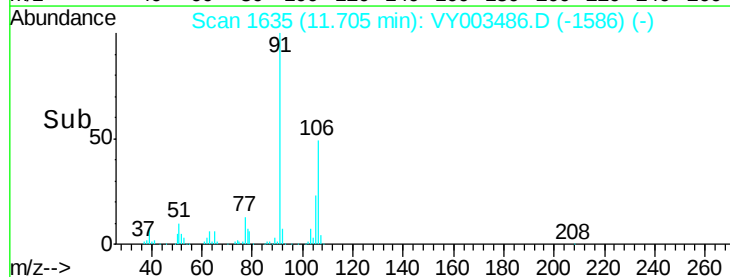
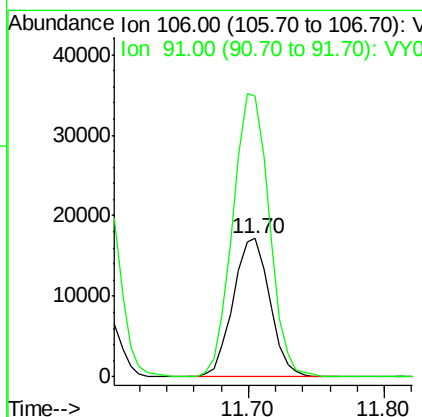
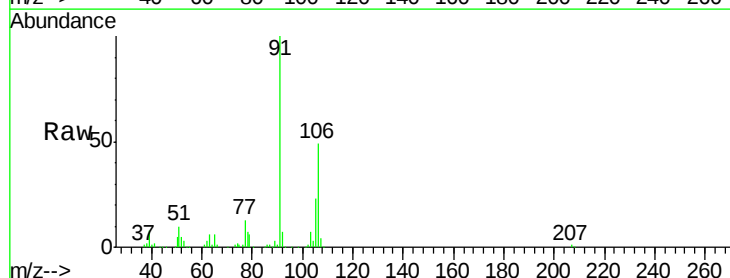
Manual Integrations
APPROVED

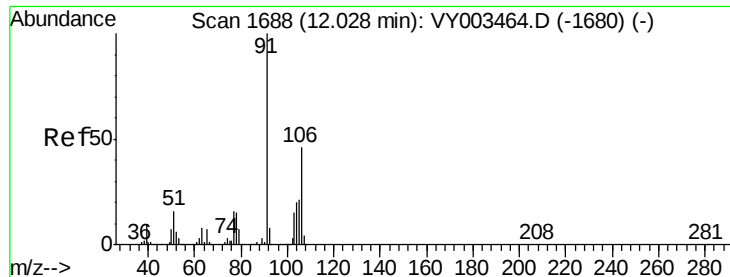
MMDadoda
11/4/2020 11:57:46 AM



#68
m/p-Xylenes
Concen: 8.080 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 106 Resp: 32425
Ion Ratio Lower Upper
106 100
91 203.7 161.0 241.6





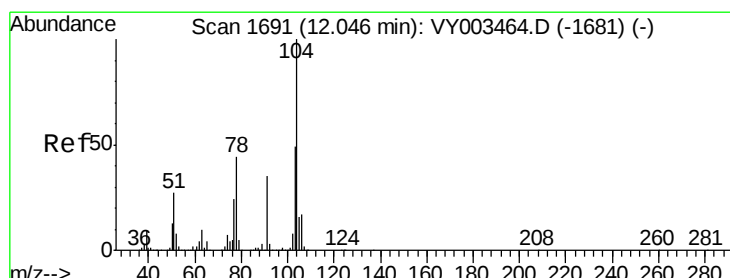
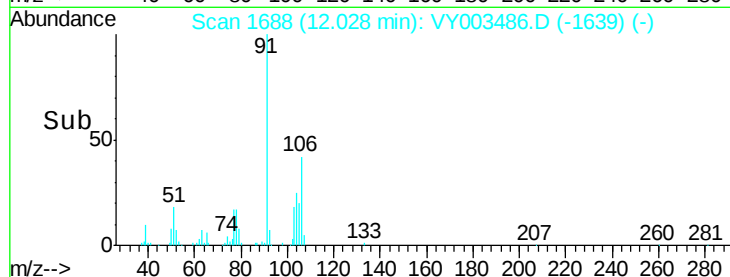
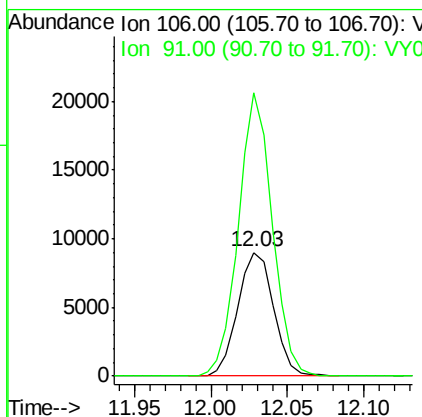
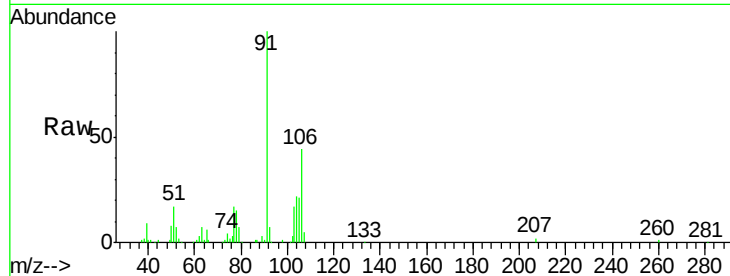
#69
o-Xylene
Concen: 3.966 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	216.2	105.5	316.5

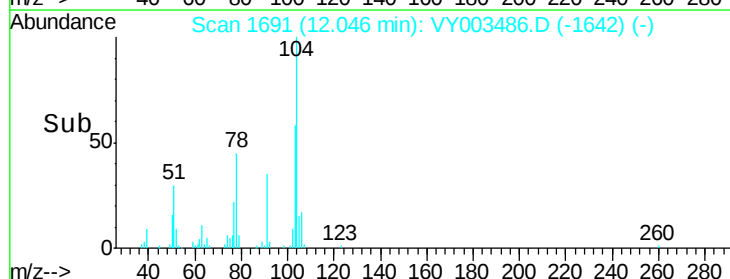
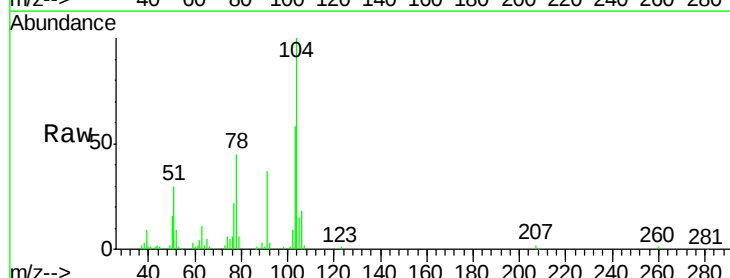
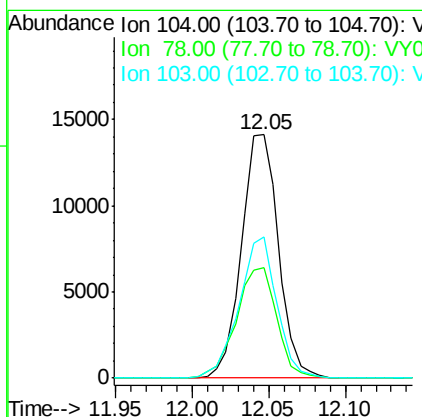
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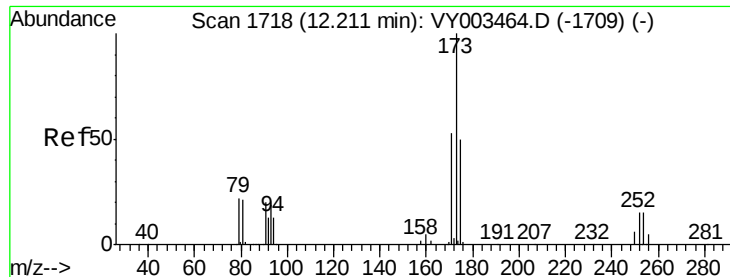
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#70
Styrene
Concen: 3.788 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	49.7	39.5	59.3
103	103	59.3	44.2	66.2





#71

Bromoform

Concen: 3.926 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

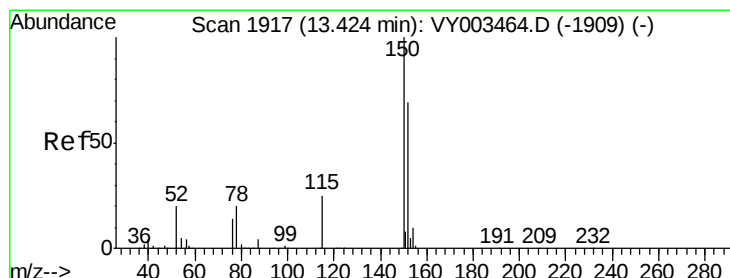
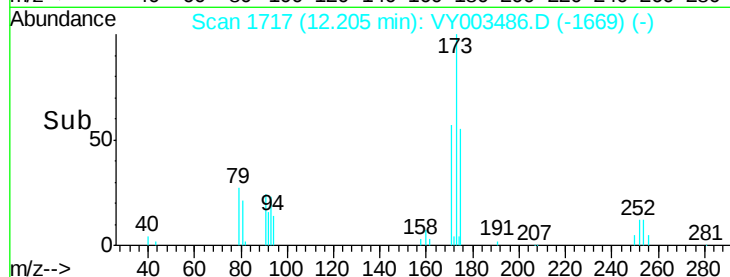
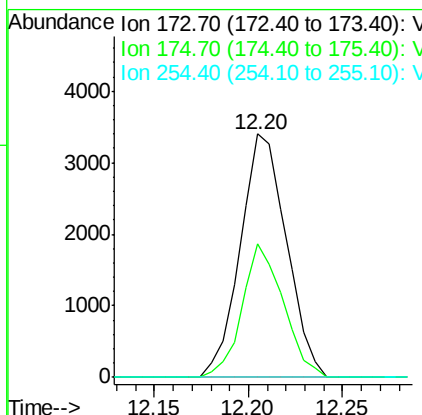
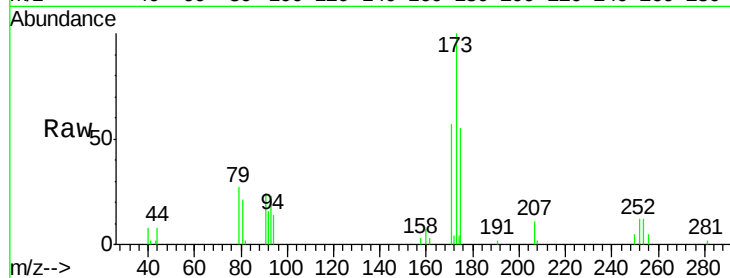
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.7	74.1
254	0.0	0.2	0.2

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

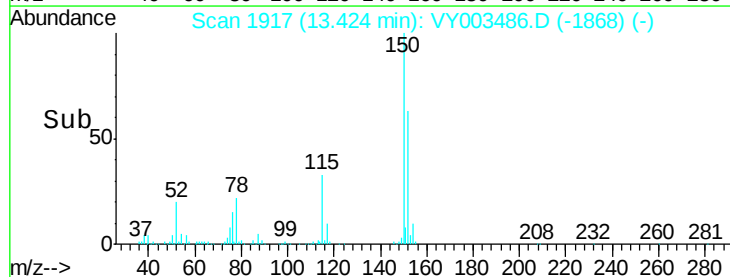
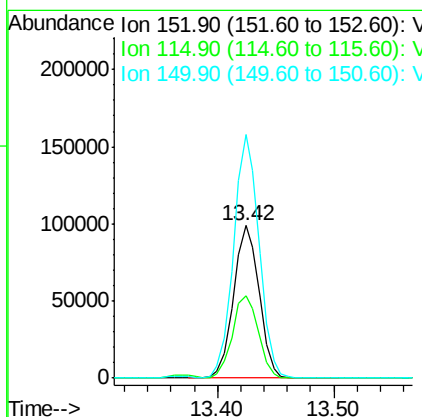
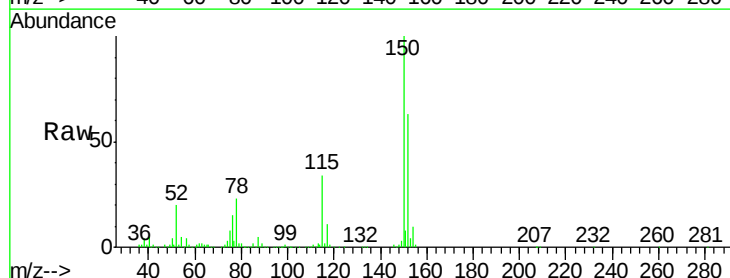
RT: 13.42 min Scan# 1917

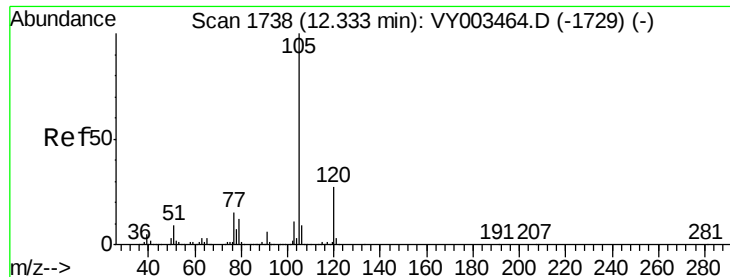
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.5	82.4
150	159.1	0.0	345.8





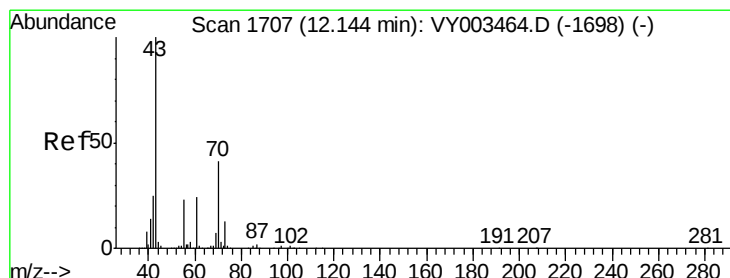
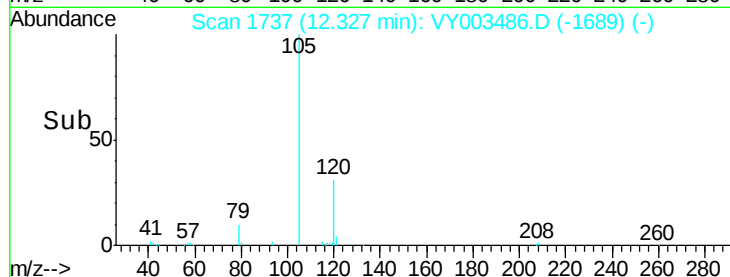
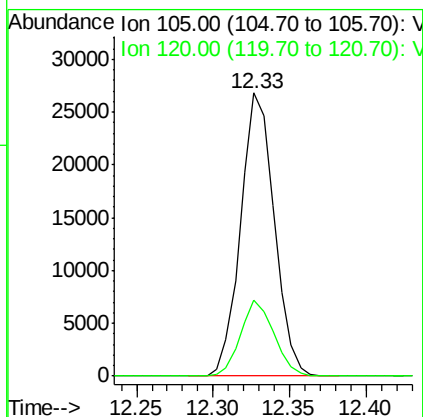
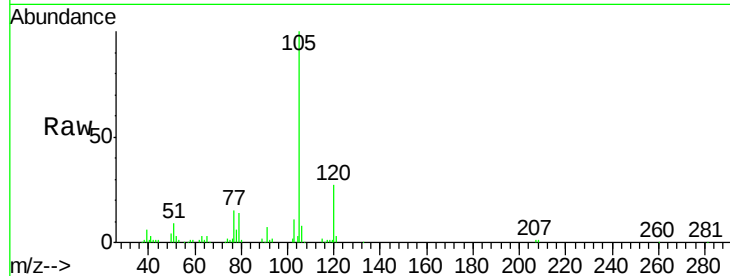
#73
Isopropylbenzene
Concen: 4.161 ug/l
RT: 12.33 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.5	40.5

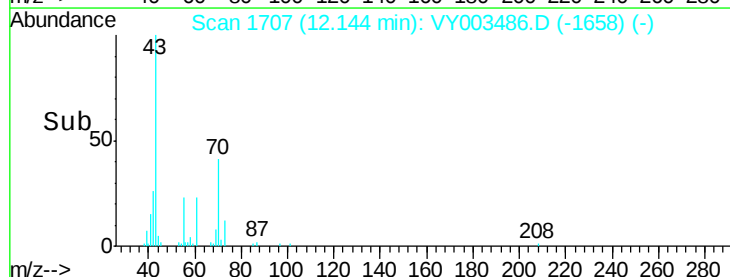
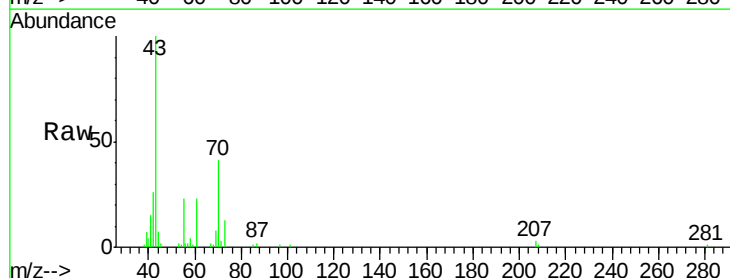
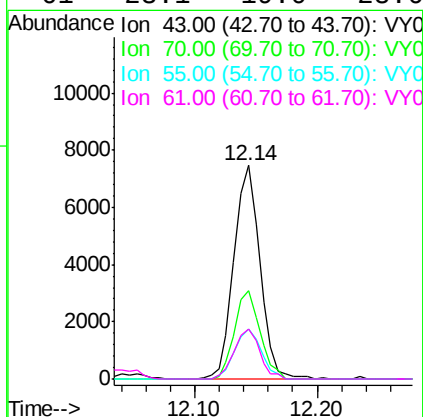
Manual Integrations
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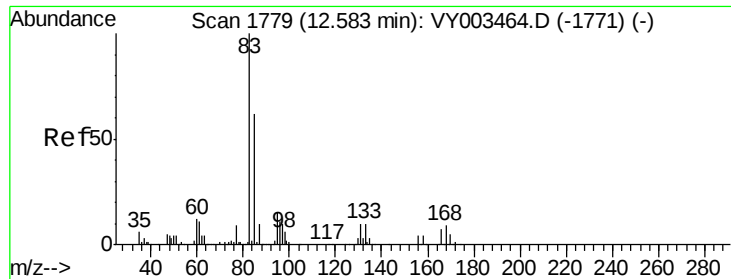
MMDadoda
11/4/2020 11:57:46 AM



#74
N-ethyl acetate
Concen: 3.944 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.2	33.1	49.7
55	24.0	19.2	28.8
61	23.1	19.0	28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 4.098 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

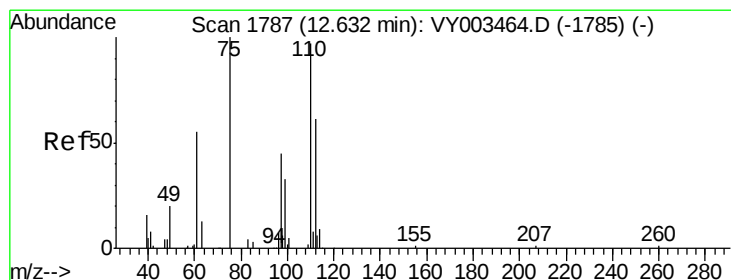
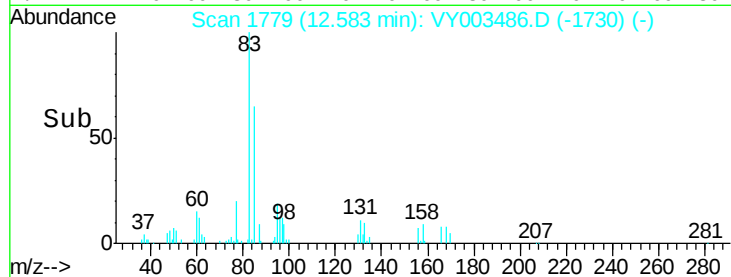
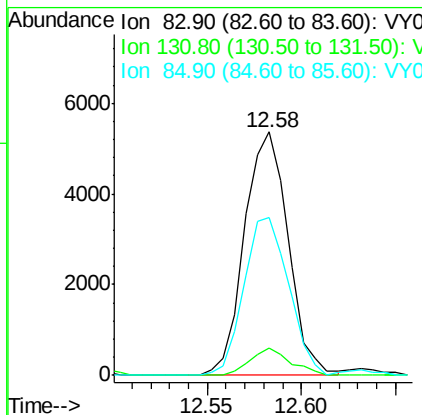
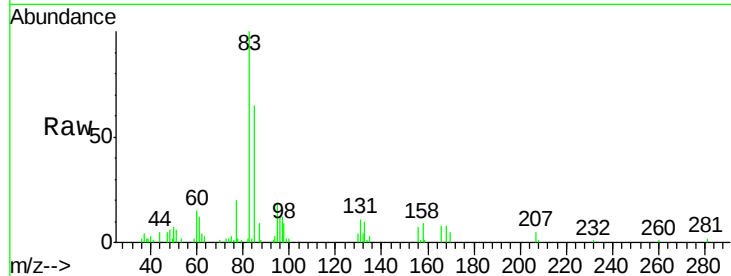
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	83	Resp:	8637
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.4	16.2
85	66.7	32.0	96.2

Manual Integrations
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11/4/2020 11:57:46 AM



#76

1,2,3-Trichloropropane

Concen: 4.030 ug/l m

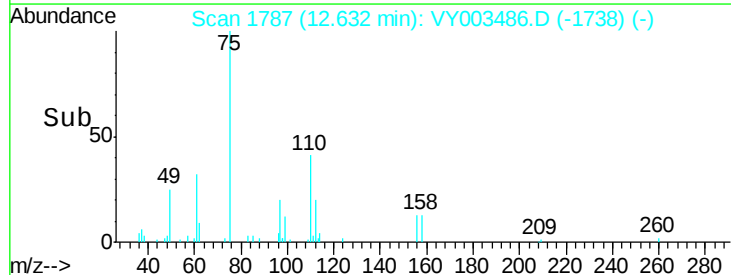
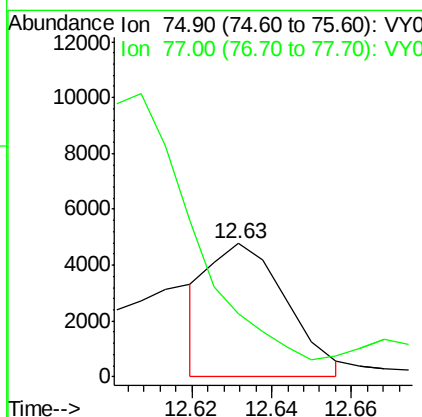
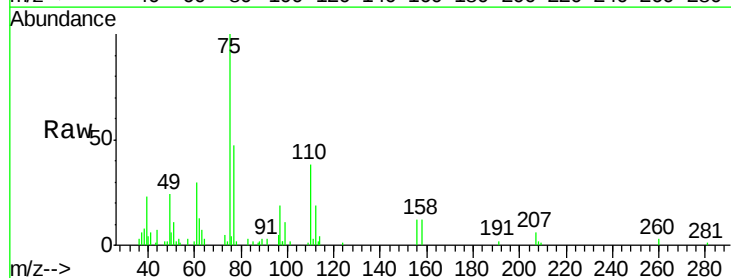
RT: 12.63 min Scan# 1787

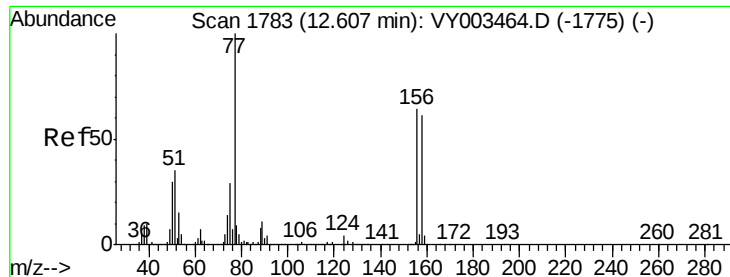
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	75	Resp:	6442
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.216 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:156 Resp: 10570

Ion Ratio Lower Upper

156 100

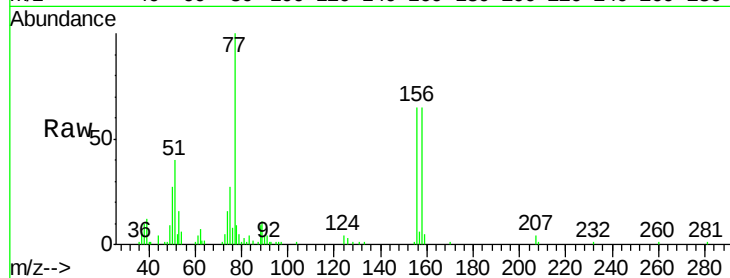
77 181.0 87.0 260.9

158 99.7 48.7 146.1

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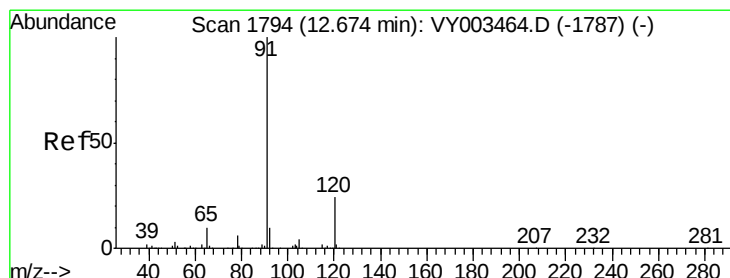
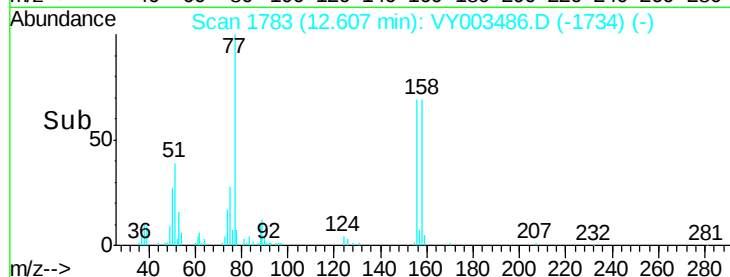
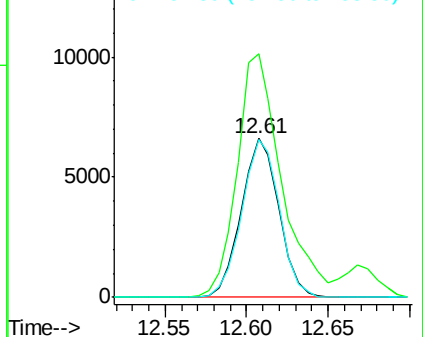
11/4/2020 11:57:46 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.181 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VY003486.D

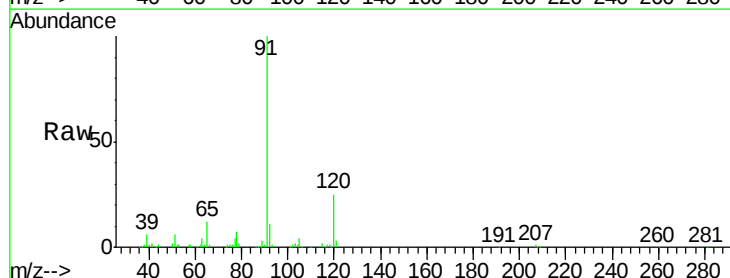
Acq: 03 Nov 2020 12:54

Tgt Ion: 91 Resp: 48601

Ion Ratio Lower Upper

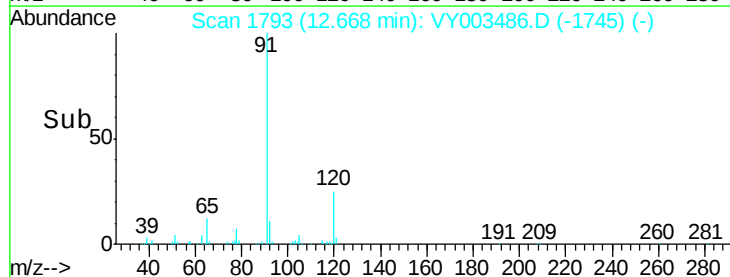
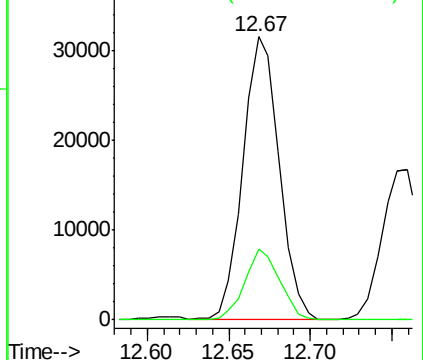
91 100

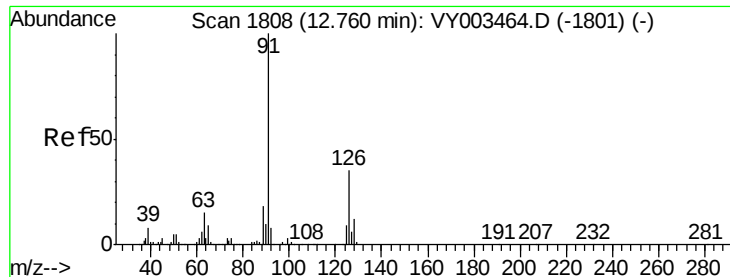
120 24.2 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.229 ug/l

RT: 12.76 min Scan# 1808

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 27465

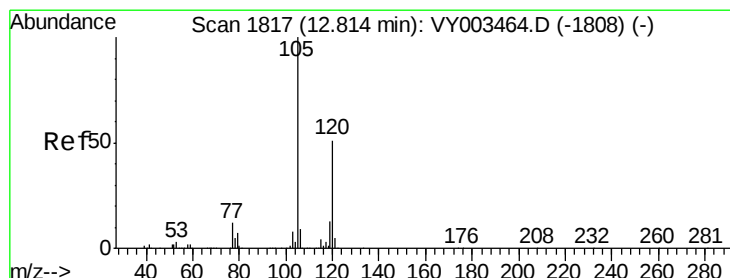
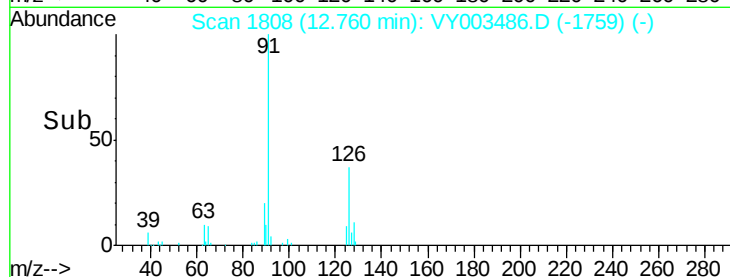
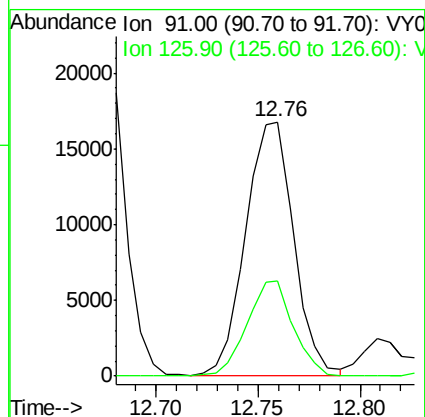
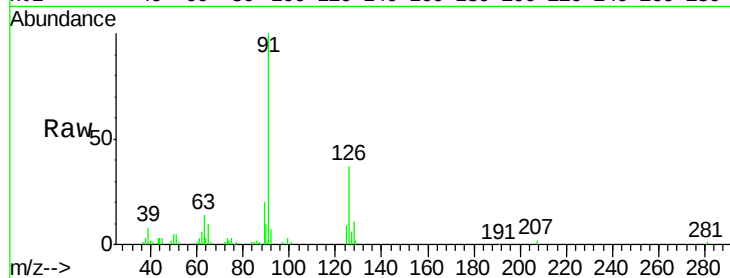
Ion Ratio Lower Upper

91 100

126 36.0 17.8 53.3

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#80

1,3,5-Trimethylbenzene

Concen: 4.174 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY003486.D

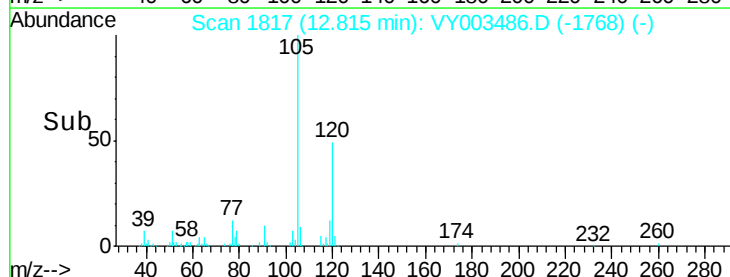
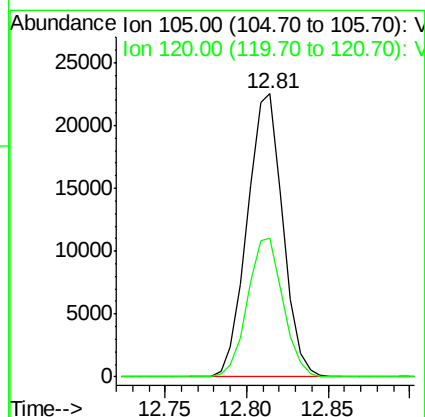
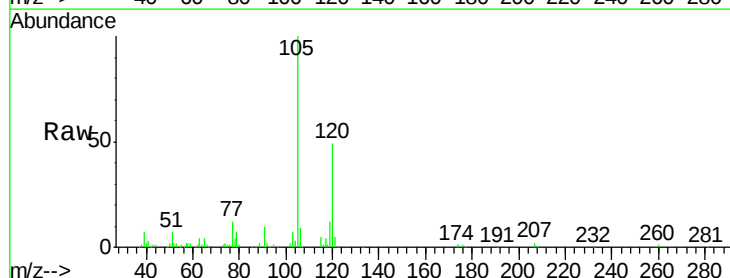
Acq: 03 Nov 2020 12:54

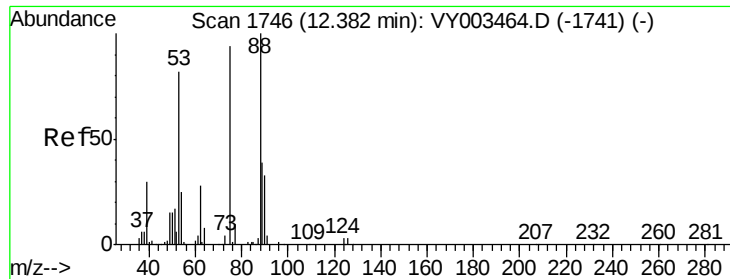
Tgt Ion: 105 Resp: 34126

Ion Ratio Lower Upper

105 100

120 48.9 25.3 75.9





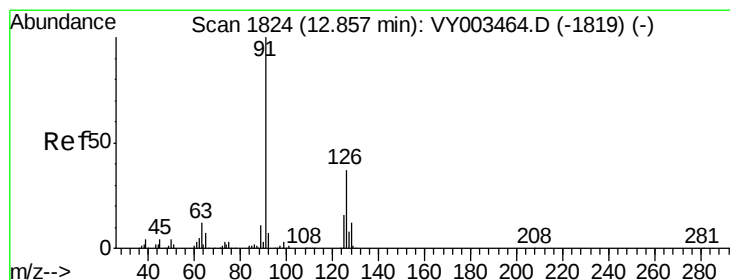
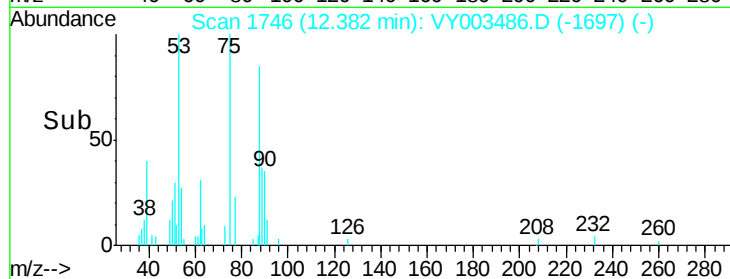
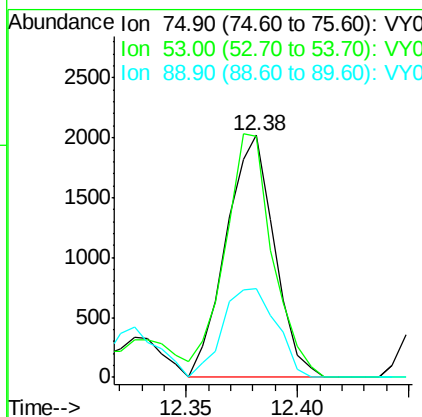
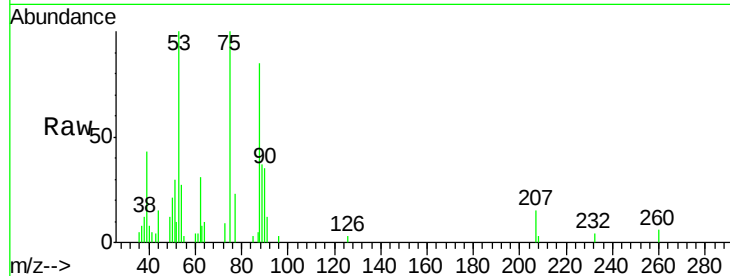
#81
trans-1,4-Dichloro-2-butene
Concen: 3.970 ug/l
RT: 12.38 min Scan# 1746
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.7	74.7	112.1
89	41.1	35.8	53.8

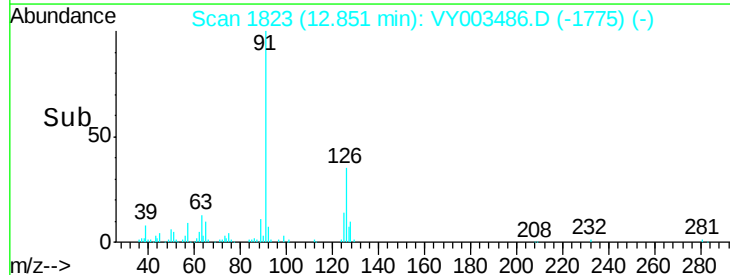
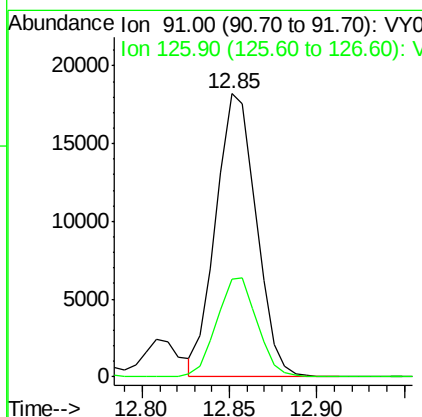
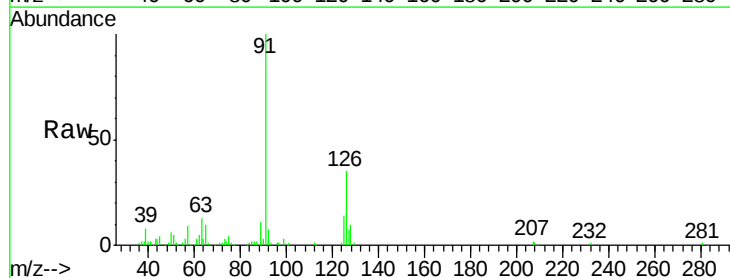
Manual Integrations
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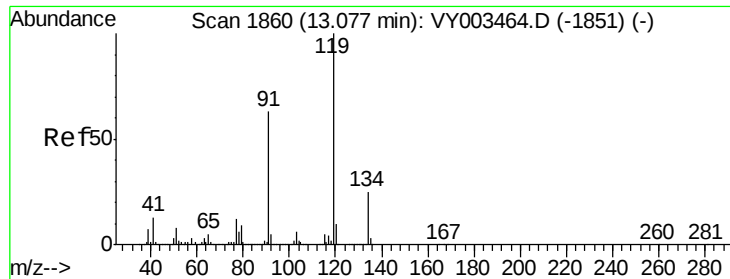
MMDadoda
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#82
4-Chlorotoluene
Concen: 4.318 ug/l
RT: 12.85 min Scan# 1823
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.6	52.8





#83

tert-Butylbenzene

Concen: 4.167 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

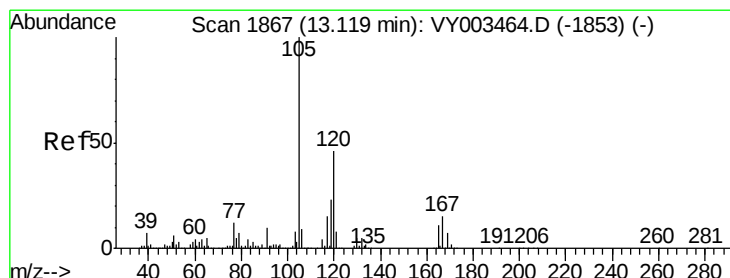
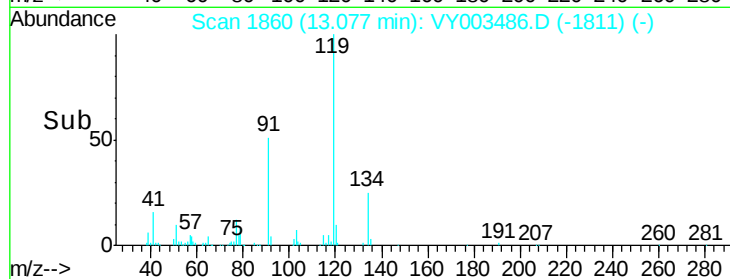
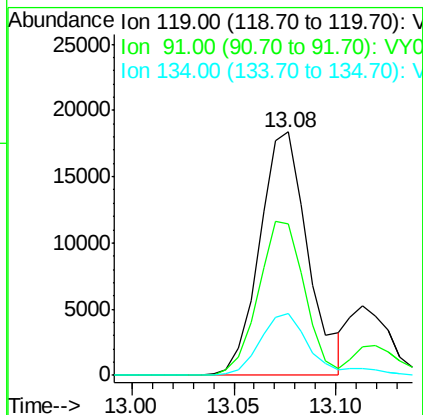
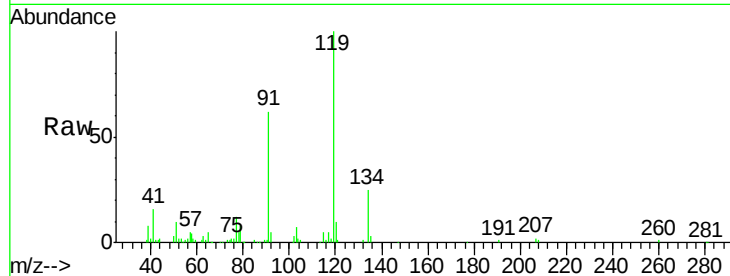
Instrument :
MSVOA_Y

ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.7	31.1	93.2
134	27.2	13.4	40.1

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 4.092 ug/l

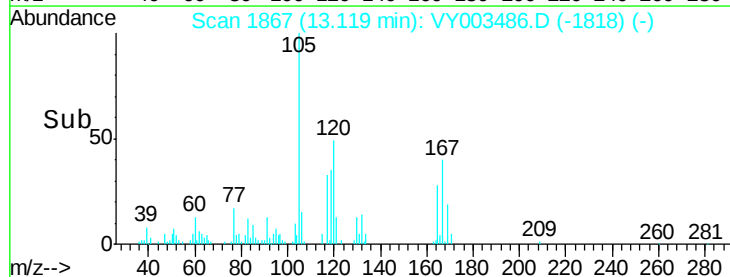
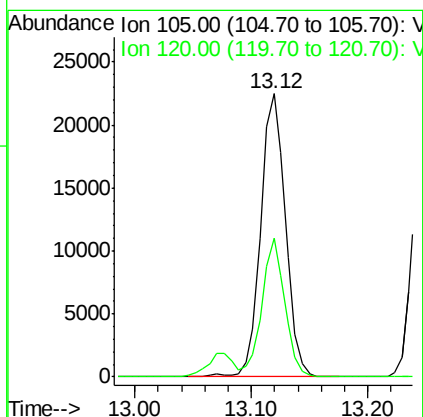
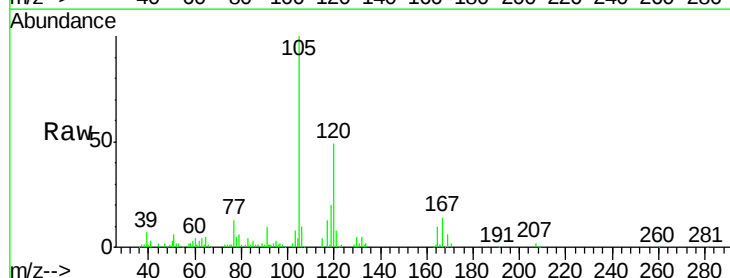
RT: 13.12 min Scan# 1867

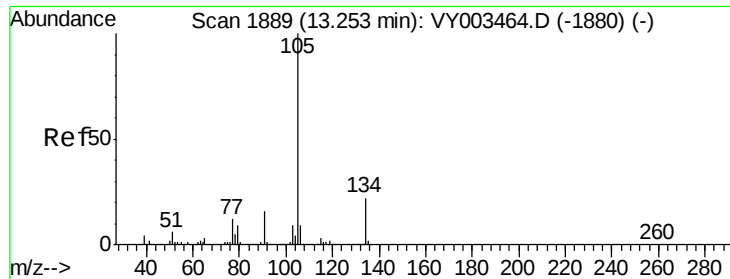
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8





#85

sec-Butylbenzene

Concen: 4.151 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 40761

Ion Ratio Lower Upper

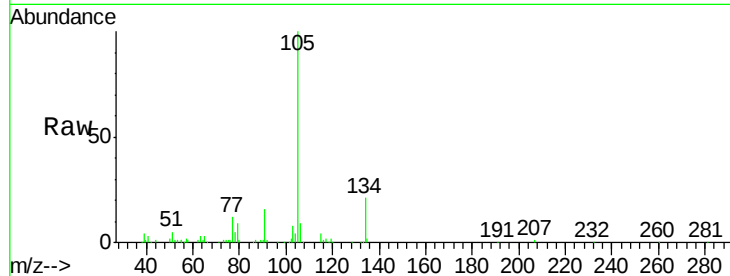
105 100

134 20.0 10.6 31.8

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

30000

25000

20000

15000

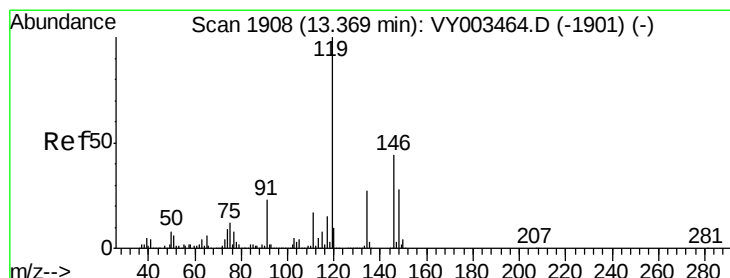
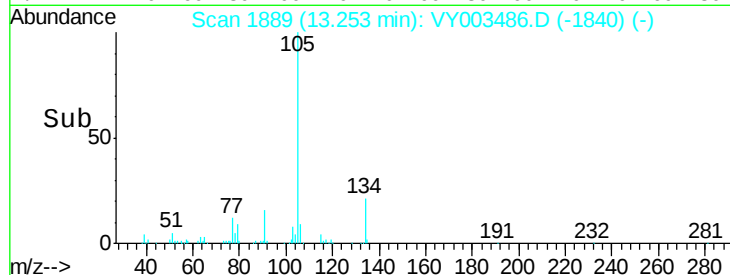
10000

5000

0

13.20 13.25 13.30

Time-->



#86

p-Isopropyltoluene

Concen: 3.960 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

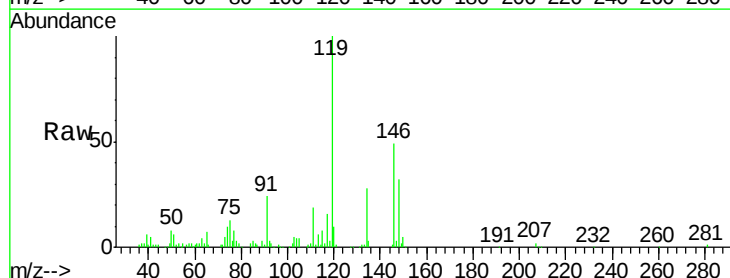
Tgt Ion:119 Resp: 36060

Ion Ratio Lower Upper

119 100

134 27.6 13.6 40.7

91 23.3 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

30000

25000

20000

15000

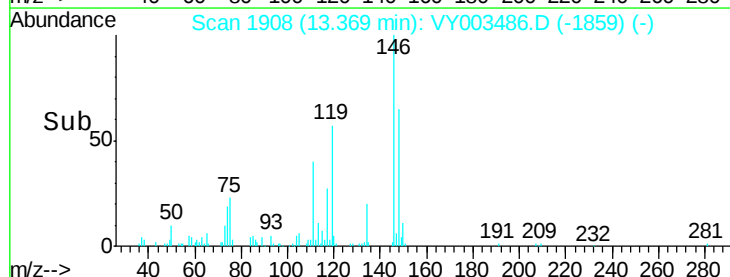
10000

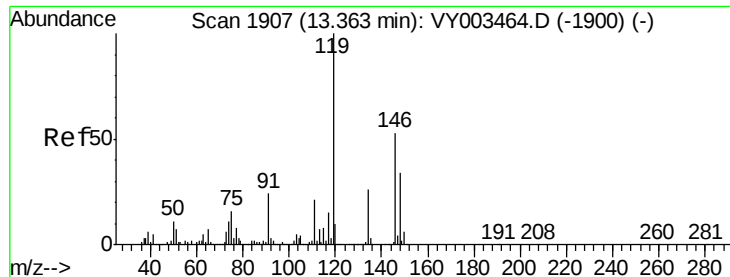
5000

0

13.30 13.35 13.40

Time-->





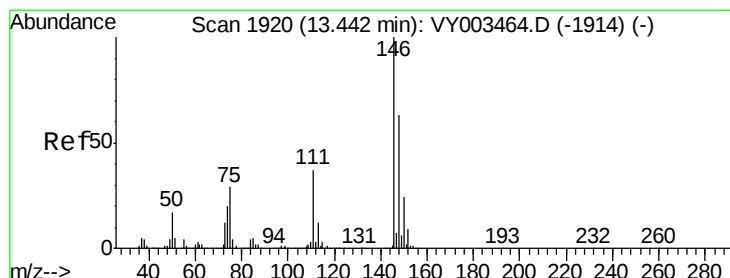
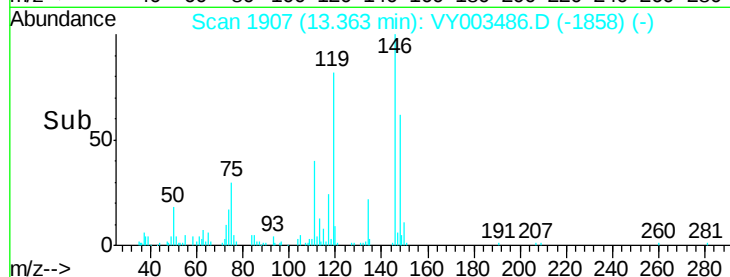
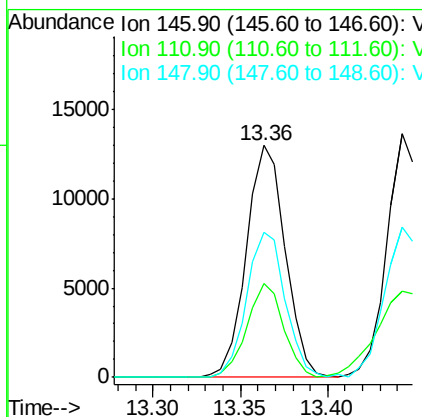
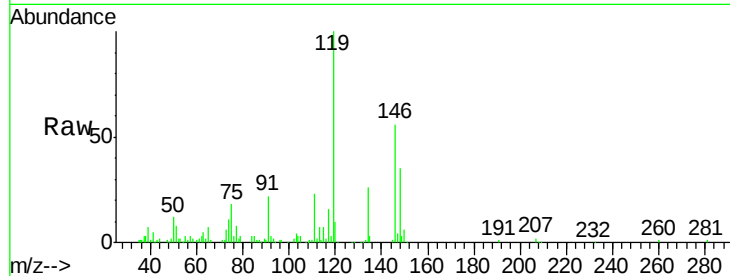
#87
 1,3-Dichlorobenzene
 Concen: 4.298 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.1
148	61.9	32.4	97.0

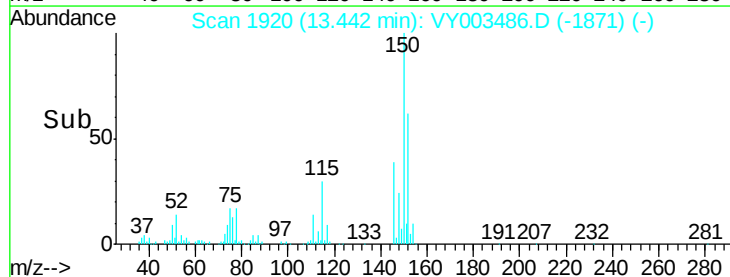
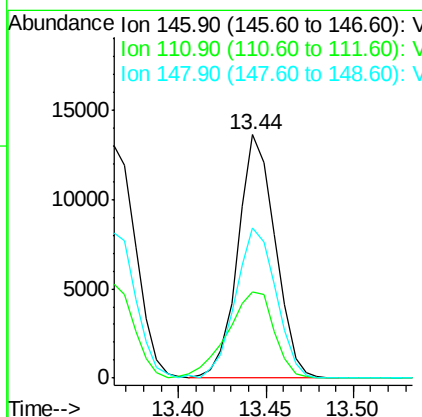
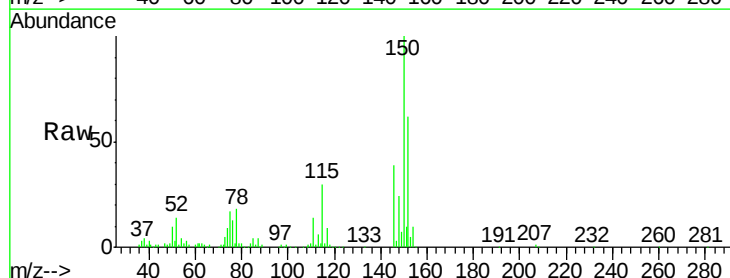
Manual Integrations
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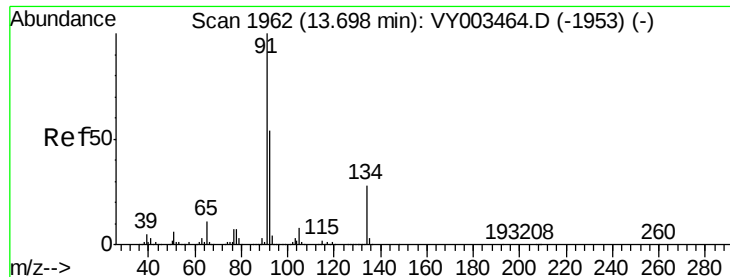
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 11/4/2020 11:57:46 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.354 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.6	18.3	54.8
148	67.1	32.0	96.0





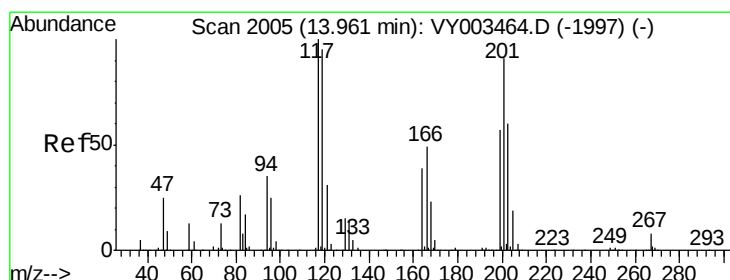
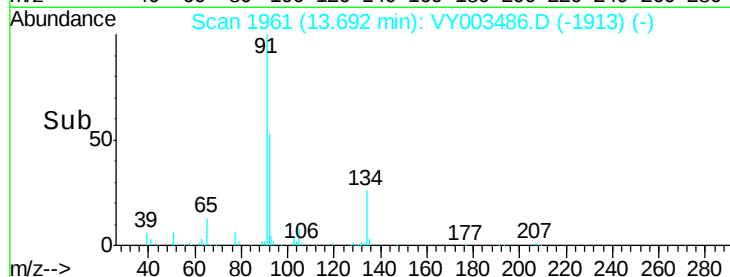
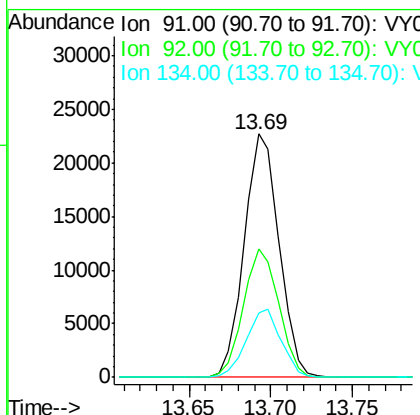
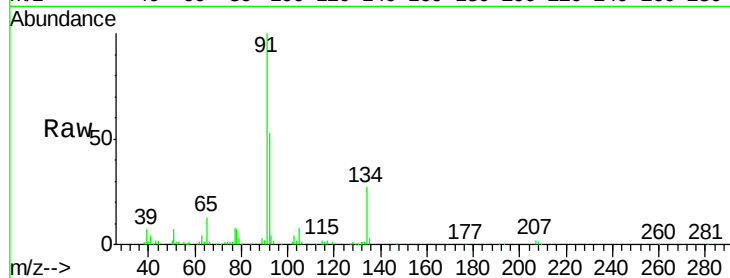
#89
n-Butylbenzene
Concen: 4.061 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.7	80.1
134	28.0	13.8	41.3

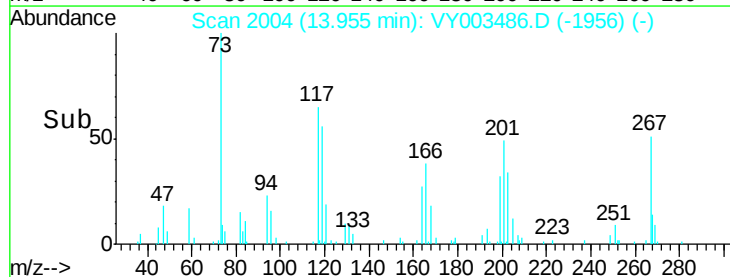
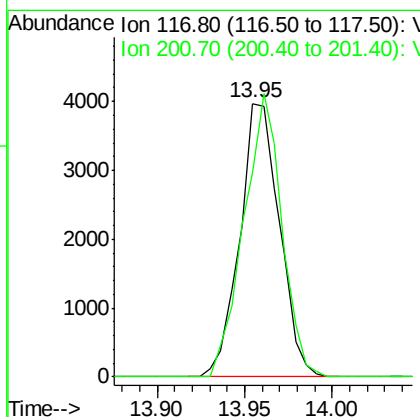
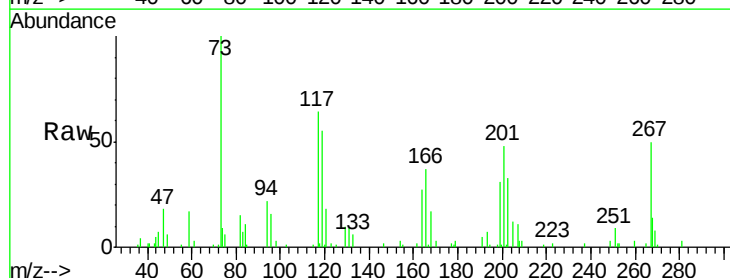
Manual Integrations
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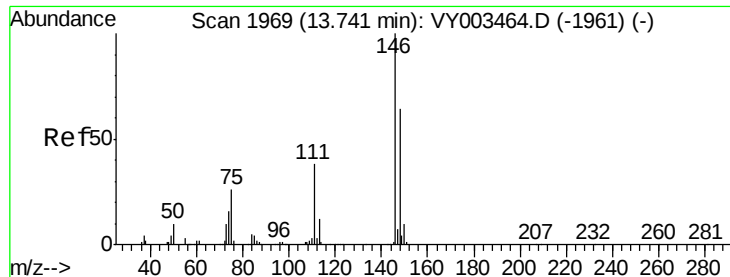
MMDadoda
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#90
Hexachloroethane
Concen: 4.086 ug/l
RT: 13.95 min Scan# 2004
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	99.2	46.6	139.8





#91

1,2-Dichlorobenzene

Concen: 4.249 ug/l

RT: 13.74 min Scan# 1968

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

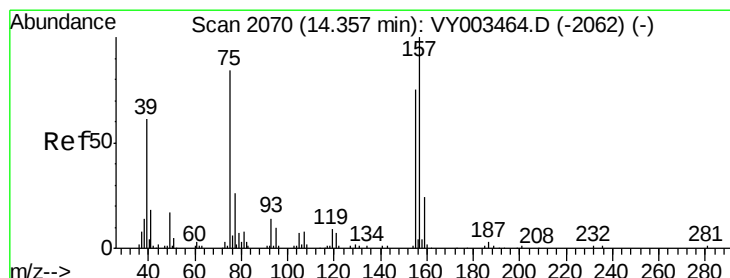
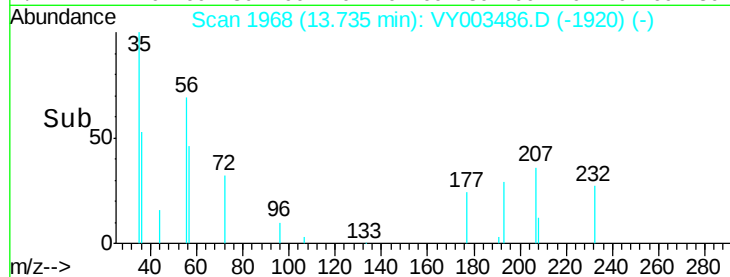
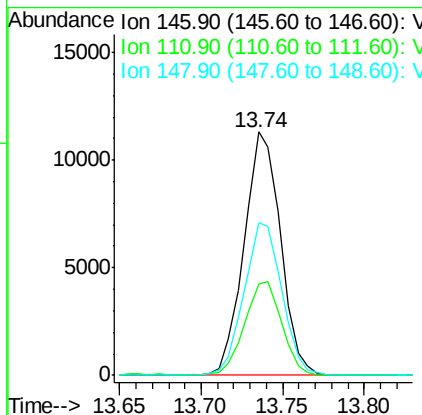
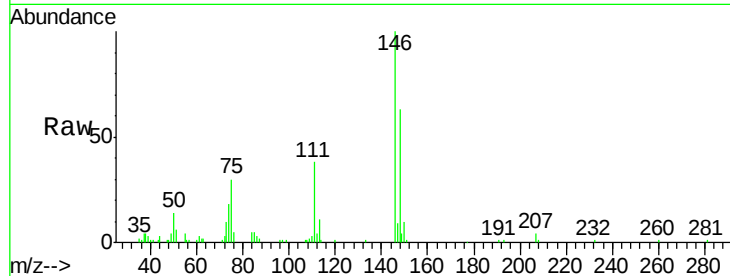
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	146	Resp:	17631
Ion Ratio	Lower	Upper	
146	100		
111	39.1	19.3	57.8
148	64.9	32.3	96.8

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 4.301 ug/l

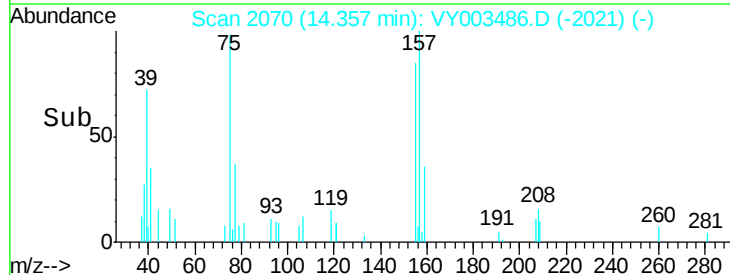
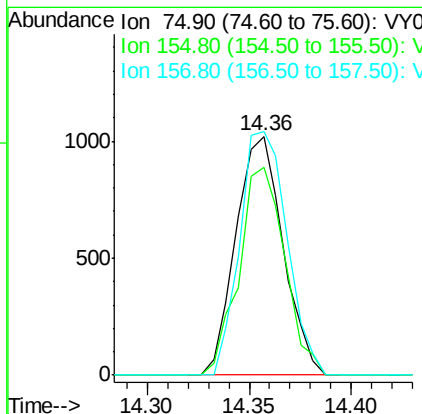
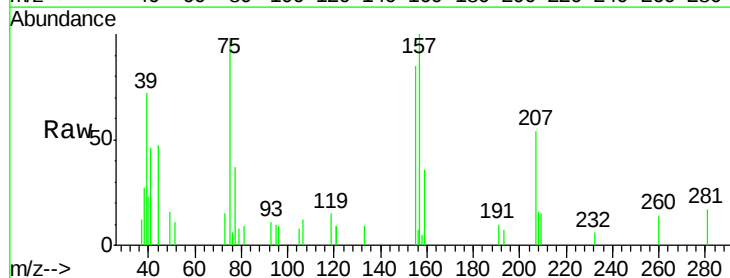
RT: 14.36 min Scan# 2070

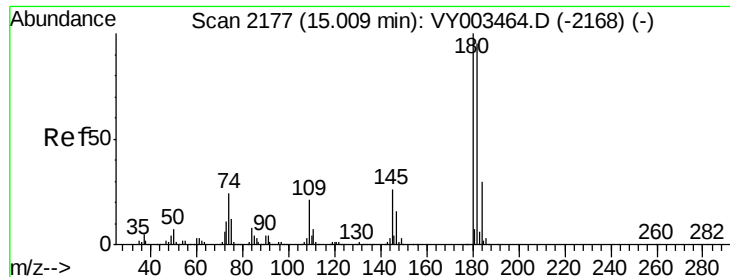
Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:	75	Resp:	1641
Ion Ratio	Lower	Upper	
75	100		
155	84.4	45.6	136.7
157	102.0	60.3	180.8





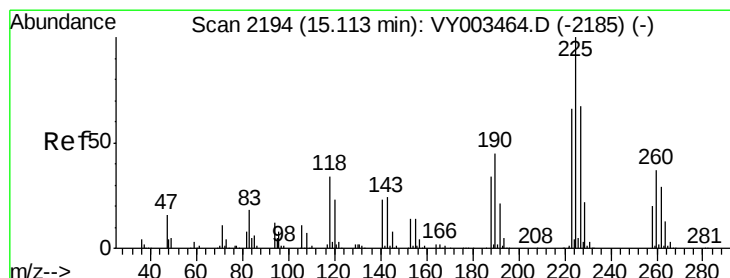
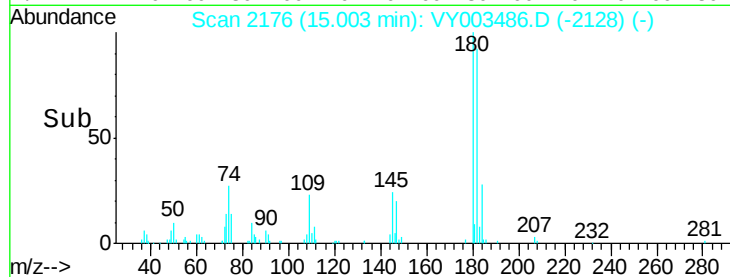
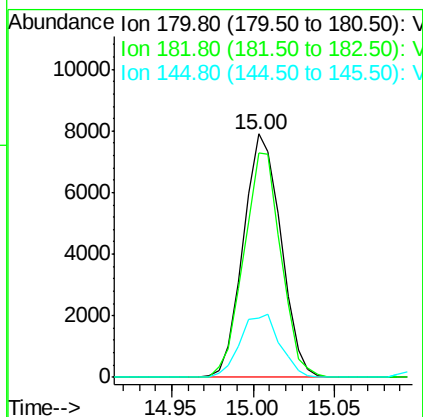
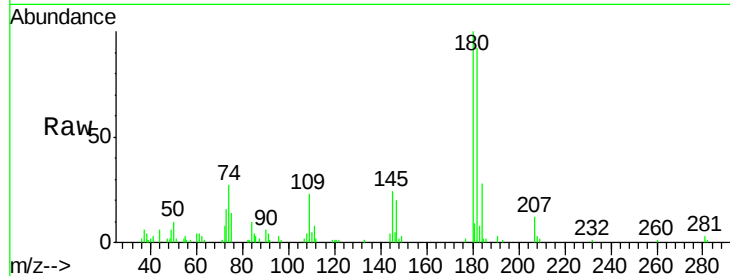
#93
 1,2,4-Trichlorobenzene
 Concen: 4.333 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	180	Resp:	12717
Ion Ratio	Lower	Upper	
180	100		
182	91.3	48.1	144.3
145	27.3	13.8	41.3

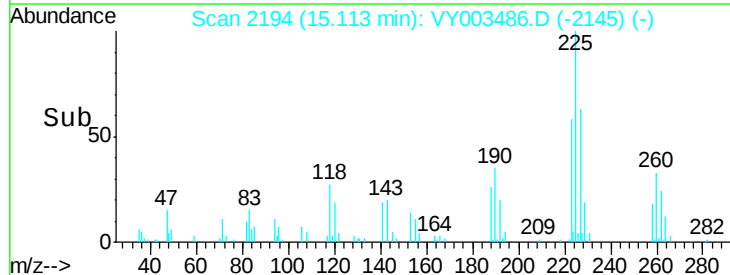
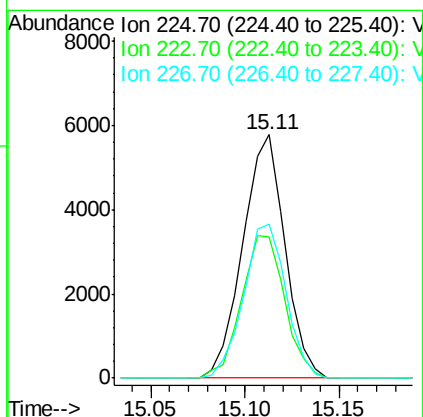
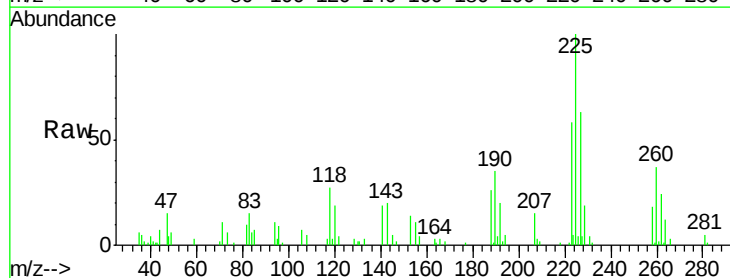
Manual Integrations
 APPROVED

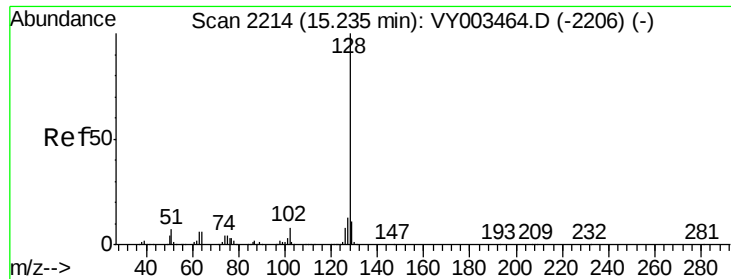
MMDadoda
 11/4/2020 11:57:46 AM



#94
 Hexachlorobutadiene
 Concen: 4.733 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion:	225	Resp:	8936
Ion Ratio	Lower	Upper	
225	100		
223	60.2	32.1	96.3
227	64.1	32.4	97.2





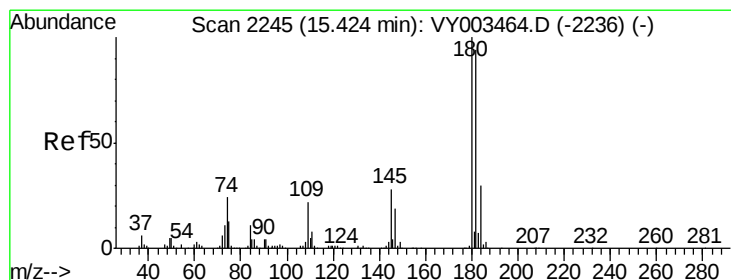
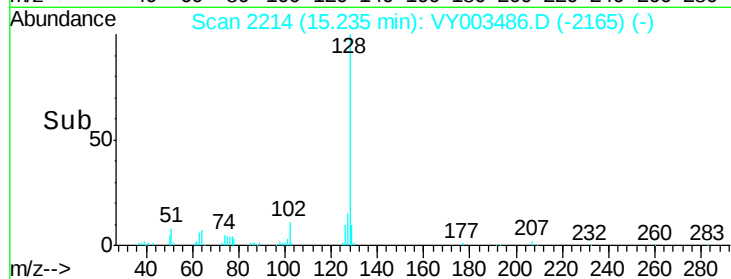
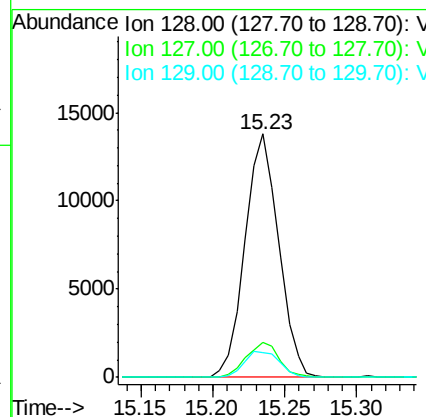
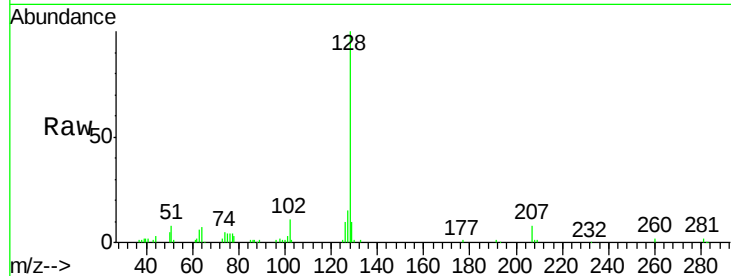
#95
Naphthalene
Concen: 3.795 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.5	15.7
129	11.3	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/4/2020 11:57:46 AM



#96
1,2,3-Trichlorobenzene
Concen: 4.242 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.0	46.9	140.7
145	30.1	14.4	43.2

