

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050720\
 Data File : VY002622.D
 Acq On : 07 May 2020 11:46
 Operator : SY/MD
 Sample : L2182-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 1:23:47 PM

Quant Time: May 08 08:16:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	360890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	537646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	489585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	252131	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	148254	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
35) Dibromofluoromethane	7.74	113	153437	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	
50) Toluene-d8	10.19	98	608436	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.49	95	204475	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	6781	2.474	ug/l	85
3) Chloromethane	2.12	50	8027	2.745	ug/l	97
4) Vinyl Chloride	2.26	62	8622	2.554	ug/l	93
5) Bromomethane	2.66	94	7111	3.054	ug/l	88
6) Chloroethane	2.81	64	5605	2.780	ug/l #	86
7) Trichlorofluoromethane	3.14	101	13578	2.595	ug/l	95
8) Diethyl Ether	3.55	74	4827	2.745	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.92	101	8414	2.631	ug/l	99
10) Methyl Iodide	4.11	142	9841	2.259	ug/l	98
11) Tert butyl alcohol	4.97	59	5517	17.672	ug/l #	85
12) 1,1-Dichloroethene	3.89	96	8457	2.722	ug/l	93
13) Acrolein	3.75	56	2236	10.358	ug/l	87
14) Allyl chloride	4.50	41	11830	2.613	ug/l	99
15) Acrylonitrile	5.19	53	10541	12.712	ug/l	96
16) Acetone	3.96	43	8736	13.950	ug/l	99
17) Carbon Disulfide	4.21	76	24168	2.586	ug/l	99
18) Methyl Acetate	4.50	43	6494	3.104	ug/l	100
19) Methyl tert-butyl Ether	5.24	73	20644	2.547	ug/l	94
20) Methylene Chloride	4.74	84	13465	3.845	ug/l	96
21) trans-1,2-Dichloroethene	5.24	96	9076	2.673	ug/l	94
22) Diisopropyl ether	6.14	45	23882	2.608	ug/l #	90
23) Vinyl Acetate	6.09	43	69823	12.122	ug/l	100
24) 1,1-Dichloroethane	6.05	63	14200	2.621	ug/l	98
25) 2-Butanone	7.01	43	14171	13.824	ug/l	94
26) 2,2-Dichloropropane	7.00	77	15326	2.976	ug/l	94
27) cis-1,2-Dichloroethene	7.01	96	9986	2.658	ug/l	92
28) Bromochloromethane	7.35	49	5805	2.615	ug/l	100
29) Tetrahydrofuran	7.37	42	9121	13.448	ug/l	99
30) Chloroform	7.53	83	15150	2.689	ug/l	94
31) Cyclohexane	7.80	56	19024	3.488	ug/l #	63
32) 1,1,1-Trichloroethane	7.72	97	13786	2.633	ug/l	95
36) 1,1-Dichloropropene	7.93	75	12092	2.683	ug/l	98
37) Ethyl Acetate	7.10	43	6453	2.786	ug/l	97
38) Carbon Tetrachloride	7.92	117	12773	2.596	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	15914	2.673	ug/l	95
40) Benzene	8.18	78	34522	2.652	ug/l	99
41) Methacrylonitrile	7.35	41	3413m	2.741	ug/l	
42) 1,2-Dichloroethane	8.25	62	9861	2.701	ug/l	96
43) Isopropyl Acetate	8.28	43	10745	2.475	ug/l	98
44) Trichloroethene	8.95	130	10805	2.656	ug/l	95
45) 1,2-Dichloropropane	9.23	63	8388	2.670	ug/l	92
46) Dibromomethane	9.31	93	4610	2.550	ug/l	95
47) Bromodichloromethane	9.50	83	11362	2.585	ug/l	92
48) Methyl methacrylate	9.30	41	4637	2.360	ug/l	95
49) 1,4-Dioxane	9.31	88	1327	55.445	ug/l	92
51) 4-Methyl-2-Pentanone	10.08	43	33346	14.900	ug/l	100
52) Toluene	10.25	92	22082	2.639	ug/l	98
53) t-1,3-Dichloropropene	10.47	75	11752	2.552	ug/l	98
54) cis-1,3-Dichloropropene	9.94	75	13137	2.468	ug/l	97
55) 1,1,2-Trichloroethane	10.65	97	7243	2.748	ug/l	96
56) Ethyl methacrylate	10.52	69	8581	2.447	ug/l	98
57) 1,3-Dichloropropane	10.80	76	12291	2.749	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.79	63	23957	12.955	ug/l	97
59) 2-Hexanone	10.84	43	19101	12.400	ug/l	97
60) Dibromochloromethane	10.99	129	8309	2.478	ug/l	98
61) 1,2-Dibromoethane	11.10	107	6907	2.646	ug/l	95
64) Tetrachloroethene	10.73	164	12711	2.922	ug/l	97
65) Chlorobenzene	11.52	112	25263	2.714	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.60	131	9131	2.643	ug/l	97
67) Ethyl Benzene	11.60	91	42747	2.615	ug/l	95
68) m/p-Xylenes	11.70	106	33744	5.335	ug/l	97
69) o-Xylene	12.03	106	15217	2.569	ug/l	98
70) Styrene	12.05	104	25562	2.525	ug/l	99
71) Bromoform	12.21	173	5409	2.523	ug/l #	99
73) Isopropylbenzene	12.33	105	42855	2.623	ug/l	98
74) N-amyl acetate	12.15	43	9861	2.509	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.59	83	6444	2.480	ug/l	91
76) 1,2,3-Trichloropropane	12.64	75	5620m	2.508	ug/l	
77) Bromobenzene	12.61	156	10834	2.654	ug/l	98
78) n-propylbenzene	12.67	91	50321	2.654	ug/l	99
79) 2-Chlorotoluene	12.76	91	27864	2.653	ug/l	100
80) 1,3,5-Trimethylbenzene	12.82	105	34640	2.557	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.39	75	2723m	2.437	ug/l	
82) 4-Chlorotoluene	12.86	91	29751	2.696	ug/l	98
83) tert-Butylbenzene	13.08	119	31266	2.633	ug/l	96
84) 1,2,4-Trimethylbenzene	13.13	105	35456	2.627	ug/l	99
85) sec-Butylbenzene	13.26	105	44240	2.684	ug/l	99
86) p-Isopropyltoluene	13.38	119	41515	2.688	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	21749	2.815	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	21884	2.860	ug/l	89
89) n-Butylbenzene	13.70	91	38975	2.773	ug/l	99
90) Hexachloroethane	13.97	117	7708	2.741	ug/l	93
91) 1,2-Dichlorobenzene	13.75	146	19455	2.822	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1342	2.770	ug/l	97

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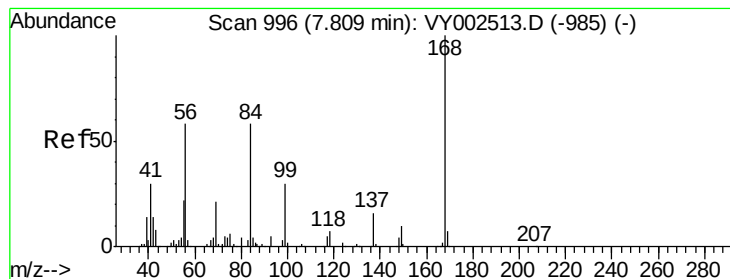
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.02	180	15884	3.173	ug/l	100
94) Hexachlorobutadiene	15.12	225	8795	2.927	ug/l	97
95) Naphthalene	15.24	128	29920	3.277	ug/l	99
96) 1,2,3-Trichlorobenzene	15.43	180	14622	3.441	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 360890

Ion Ratio Lower Upper

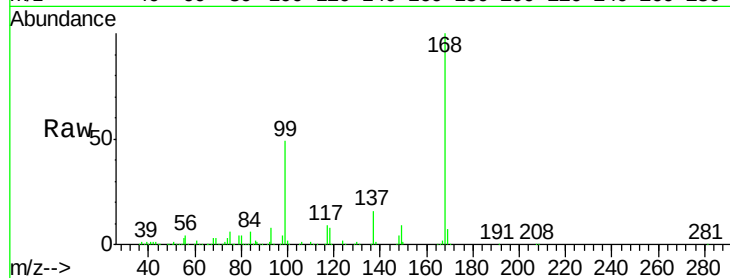
168 100

99 49.3 39.2 58.8

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Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.81

150000

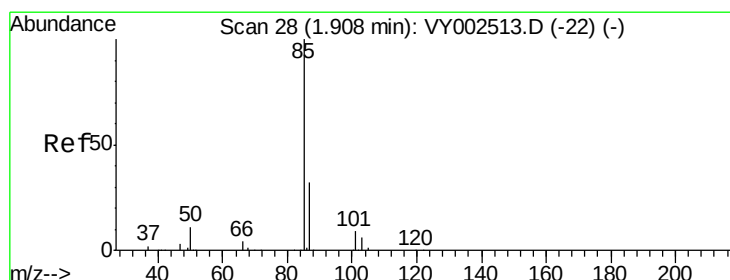
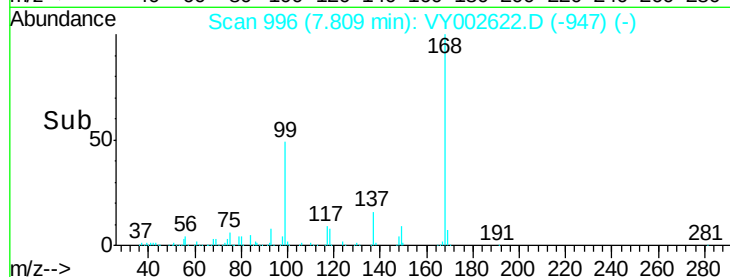
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 2.474 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY002622.D

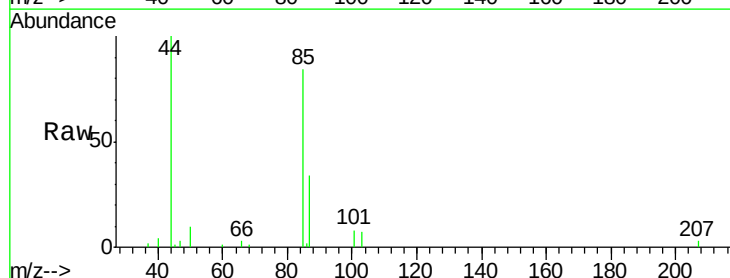
Acq: 07 May 2020 11:46

Tgt Ion: 85 Resp: 6781

Ion Ratio Lower Upper

85 100

87 40.1 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.91

5000

4000

3000

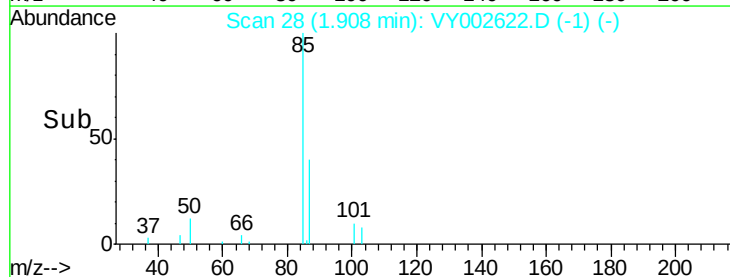
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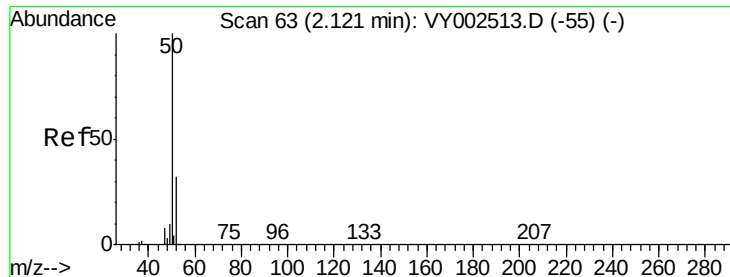
1000

0

1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 2.745 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

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Tot Ion: 50 Resp: 8027

Ion Ratio Lower Upper

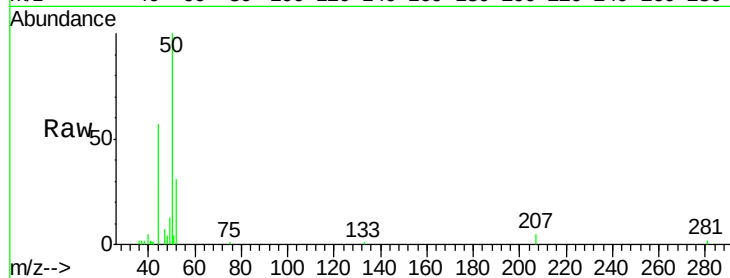
50 100

52 30.9 25.9 38.9

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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

6000

5000

4000

3000

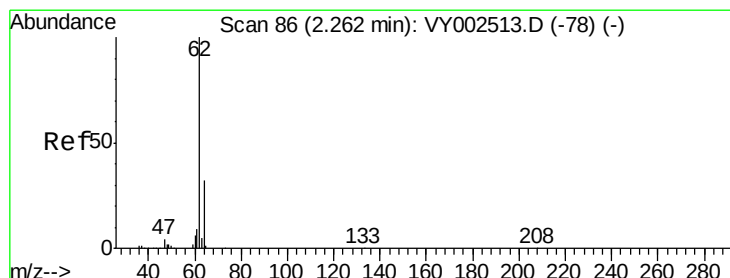
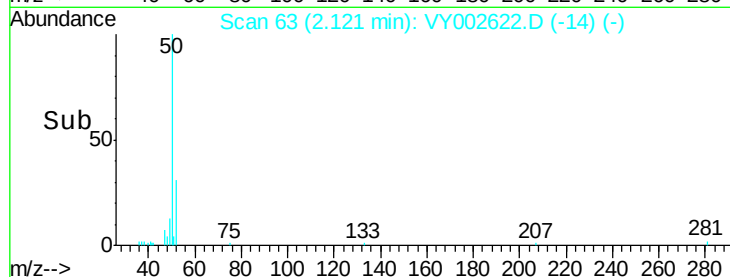
2000

1000

0

Time-->

2.05 2.10 2.15 2.20



#4

Vinyl Chloride

Concen: 2.554 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY002622.D

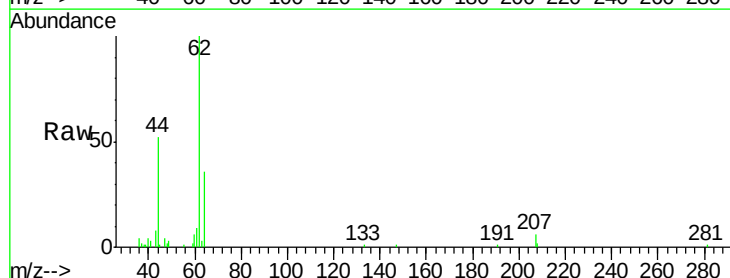
Acq: 07 May 2020 11:46

Tgt Ion: 62 Resp: 8622

Ion Ratio Lower Upper

62 100

64 35.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0

2.26

6000

5000

4000

3000

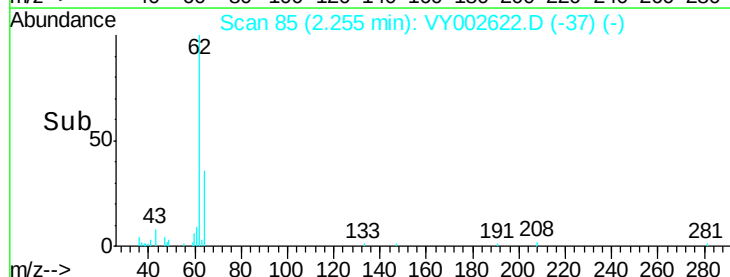
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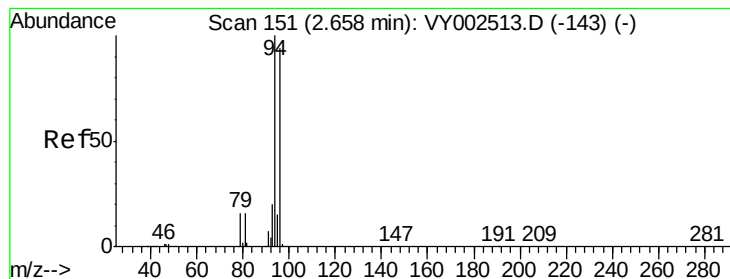
1000

0

Time-->

2.20 2.25 2.30 2.35





#5

Bromomethane

Concen: 3.054 ug/l

RT: 2.66 min Scan# 152

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 7111

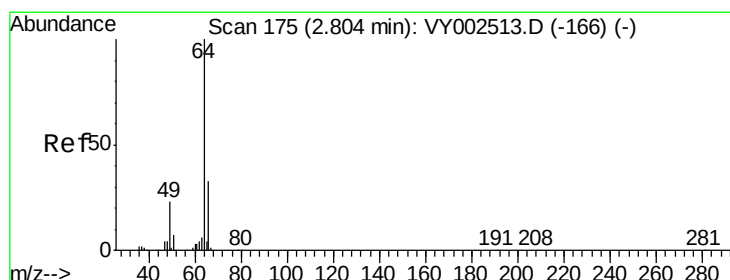
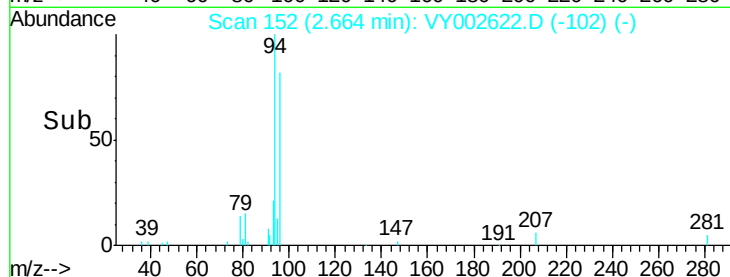
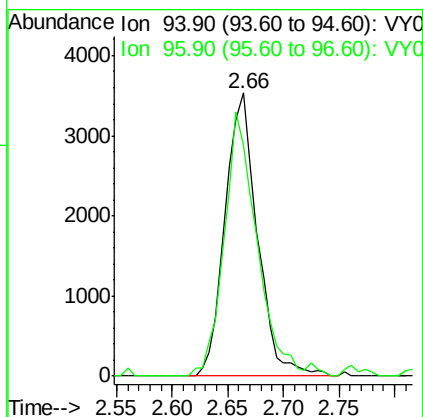
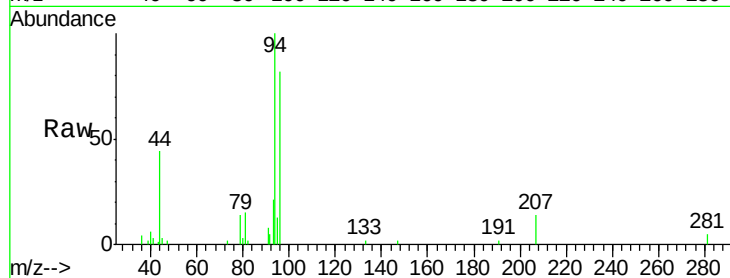
Ion Ratio Lower Upper

94 100

96 81.8 74.9 112.3

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#6

Chloroethane

Concen: 2.780 ug/l

RT: 2.81 min Scan# 176

Delta R.T. 0.01 min

Lab File: VY002622.D

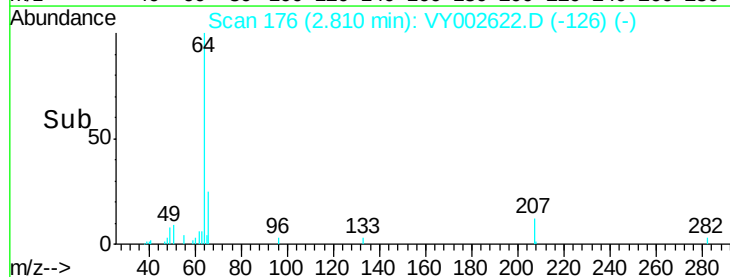
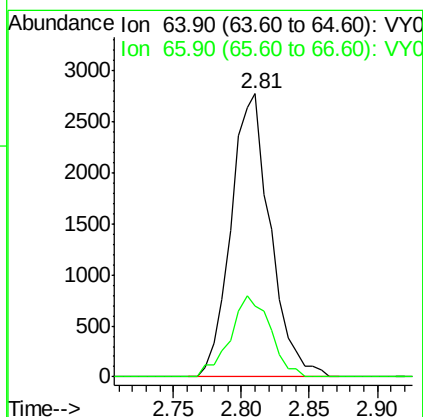
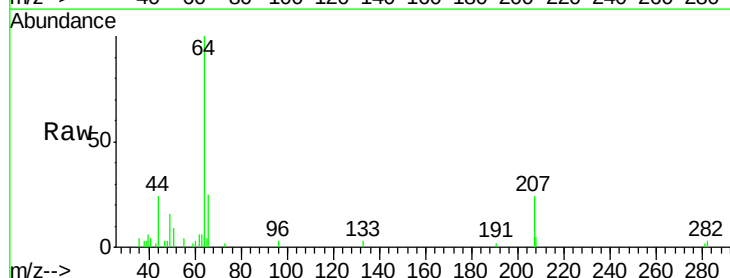
Acq: 07 May 2020 11:46

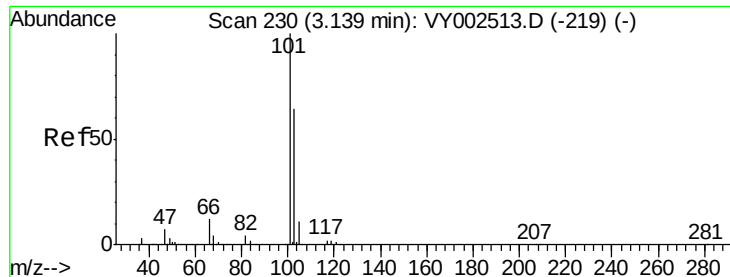
Tgt Ion: 64 Resp: 5605

Ion Ratio Lower Upper

64 100

66 25.2 26.3 39.5#





#7

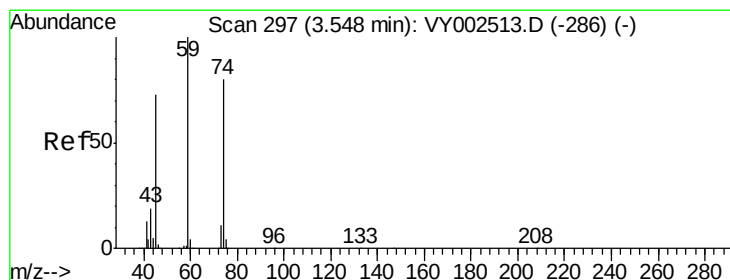
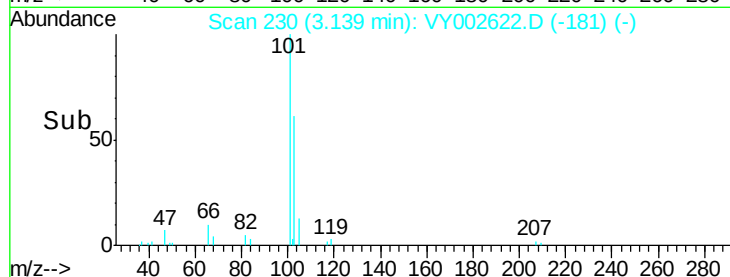
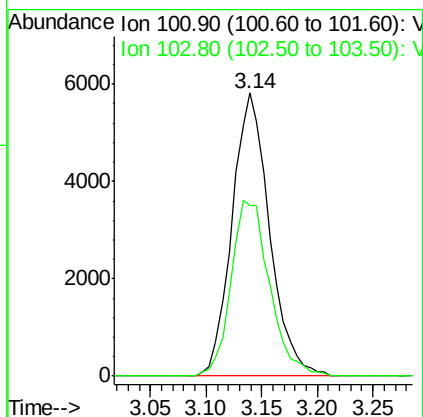
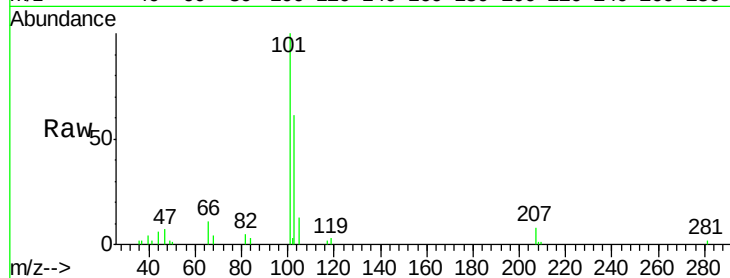
Trichlorofluoromethane
Concen: 2.595 ug/l
RT: 3.14 min Scan# 230
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

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MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.5	51.4	77.0

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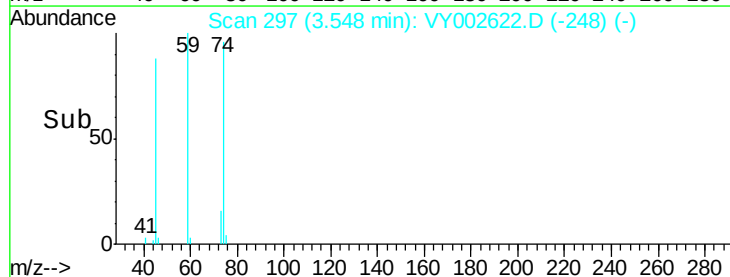
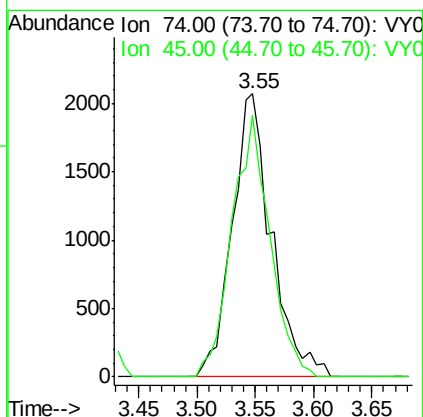
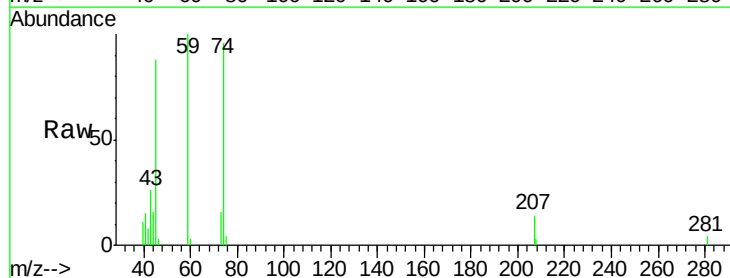
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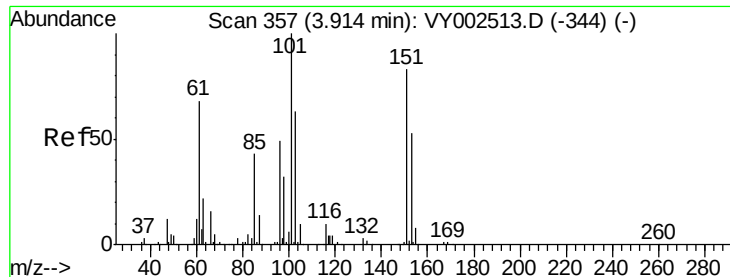


#8

Diethyl Ether
Concen: 2.745 ug/l
RT: 3.55 min Scan# 297
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.0	46.2	138.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.631 ug/l

RT: 3.92 min Scan# 358

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

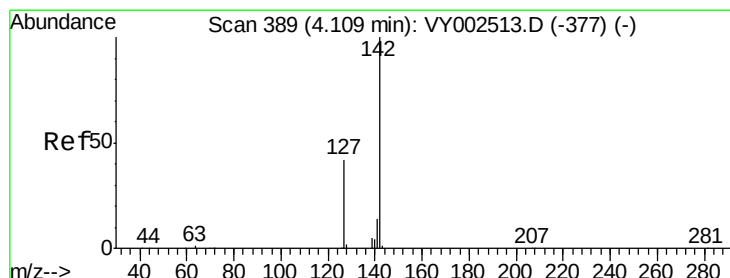
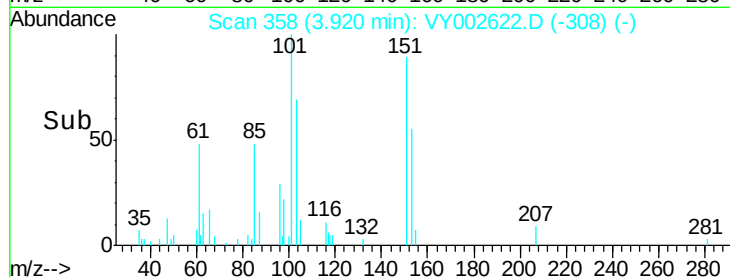
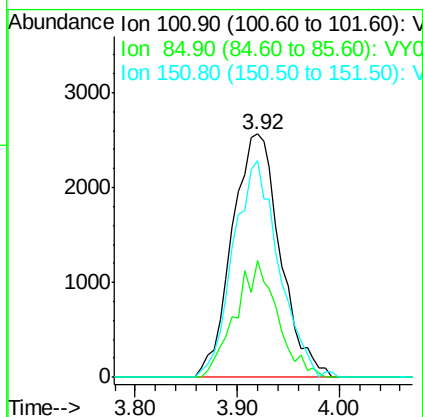
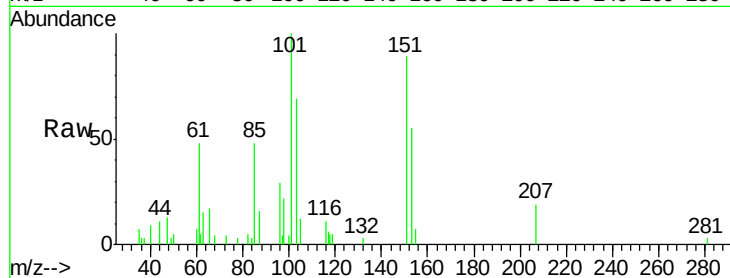
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	101	Resp:	8414
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.4	50.2
151	84.4	66.8	100.2

Manual Integrations
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#10

Methyl Iodide

Concen: 2.259 ug/l

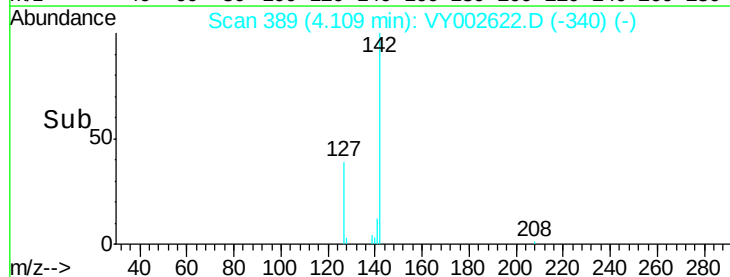
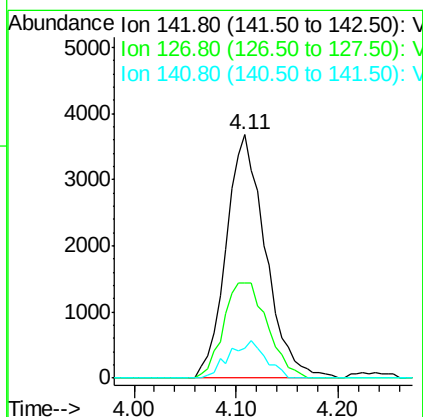
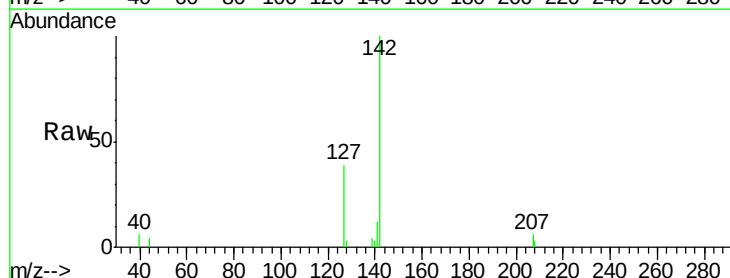
RT: 4.11 min Scan# 389

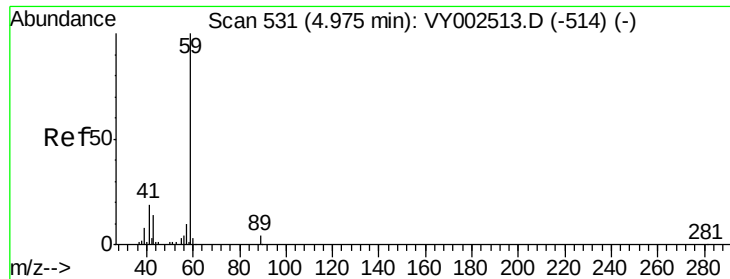
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	142	Resp:	9841
Ion Ratio	Lower	Upper	
142	100		
127	43.7	33.7	50.5
141	14.3	11.4	17.0





#11

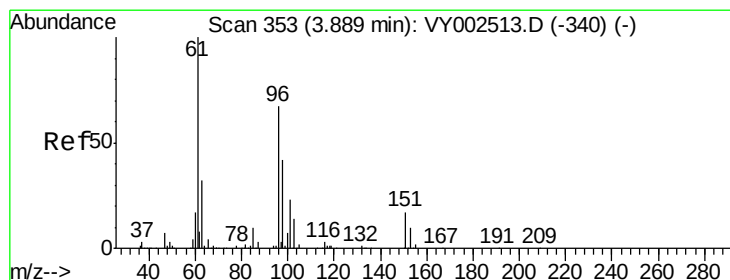
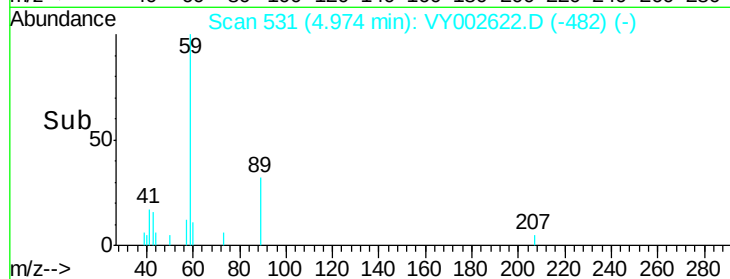
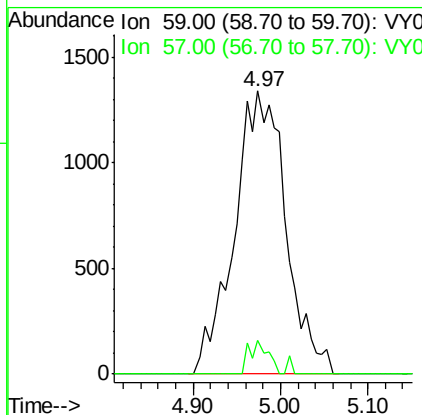
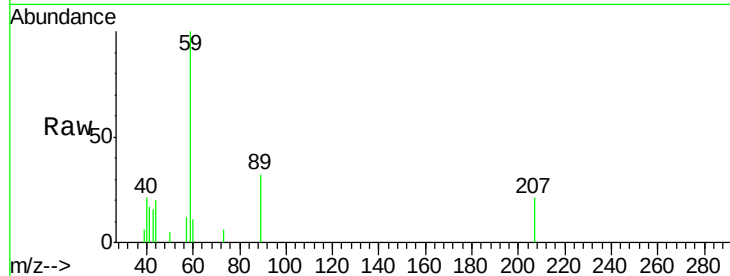
Tert butyl alcohol
Concen: 17.672 ug/l
RT: 4.97 min Scan# 531
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.3	7.8	11.6#

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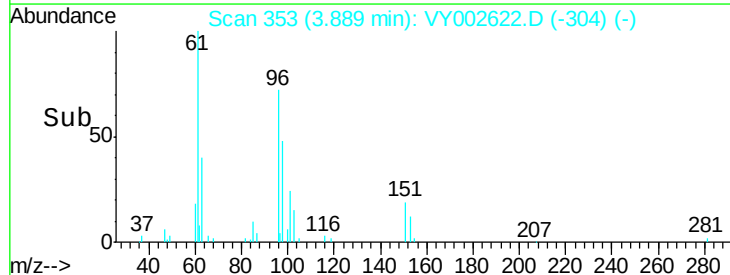
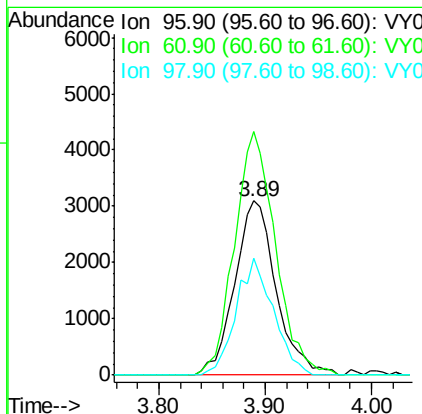
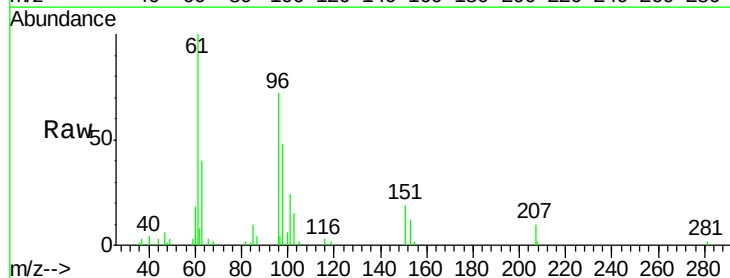
MMDadoda
5/8/2020 1:23:47 PM

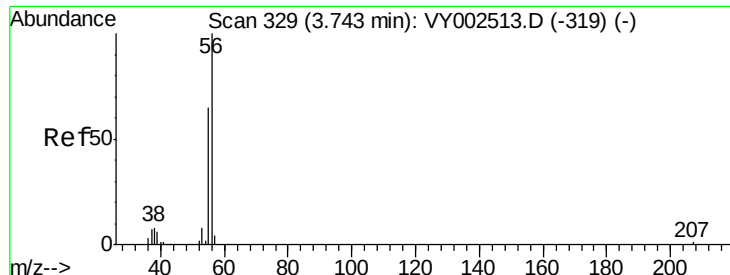


#12

1,1-Dichloroethene
Concen: 2.722 ug/l
RT: 3.89 min Scan# 353
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.8	118.8	178.2
98	67.1	49.6	74.4





#13

Acrolein

Concen: 10.358 ug/l

RT: 3.75 min Scan# 330

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 2236

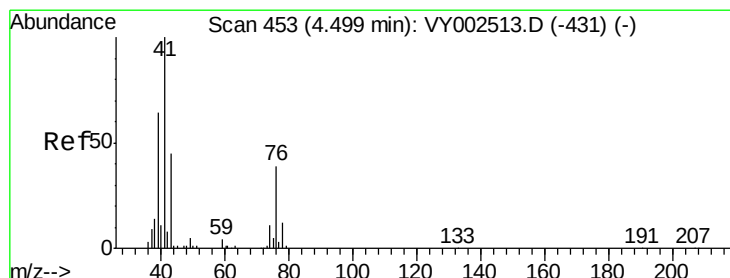
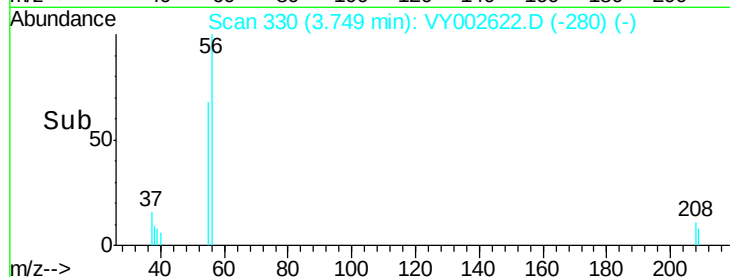
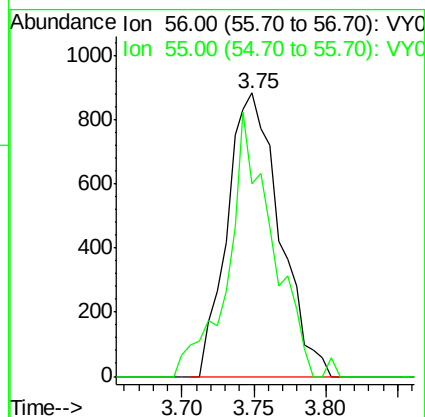
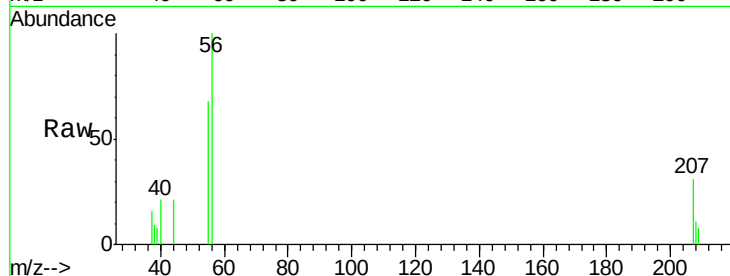
Ion Ratio Lower Upper

56 100

55 77.6 53.8 80.6

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#14

Allyl chloride

Concen: 2.613 ug/l

RT: 4.50 min Scan# 454

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

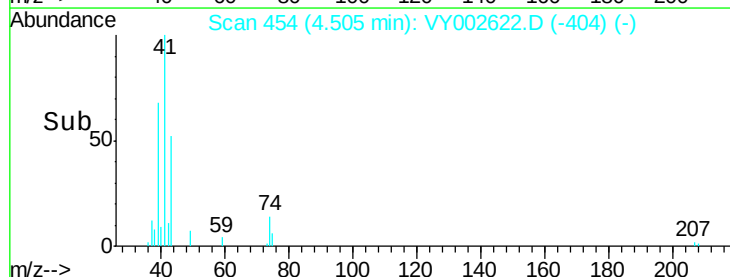
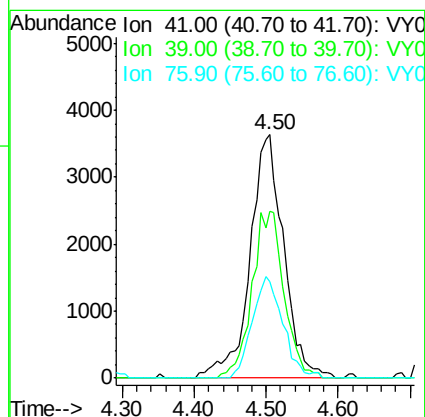
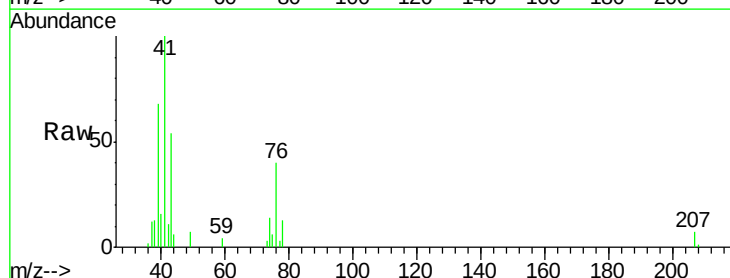
Tgt Ion: 41 Resp: 11830

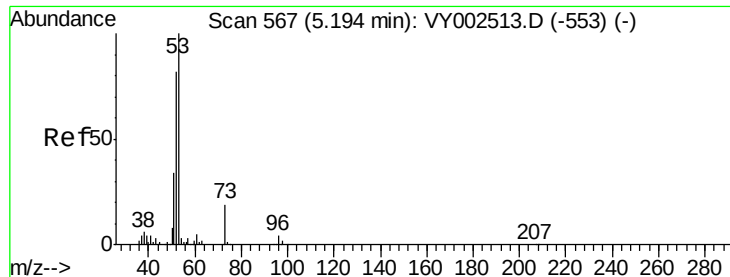
Ion Ratio Lower Upper

41 100

39 64.8 51.8 77.6

76 38.0 31.7 47.5





#15

Acrylonitrile

Concen: 12.712 ug/l

RT: 5.19 min Scan# 567

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

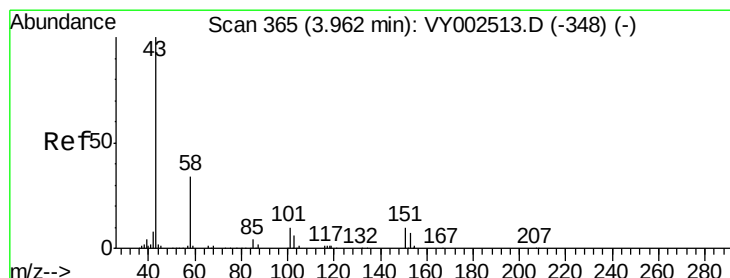
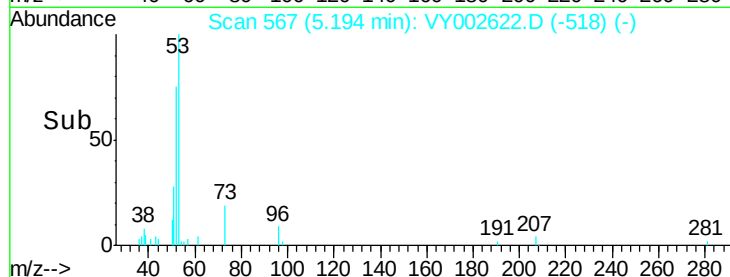
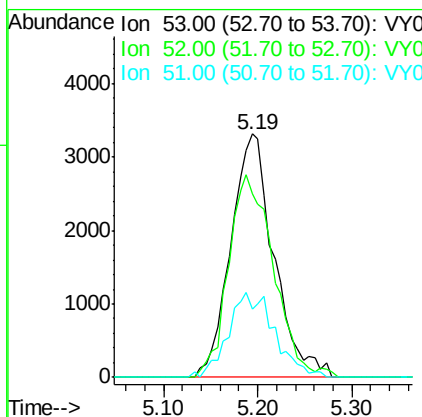
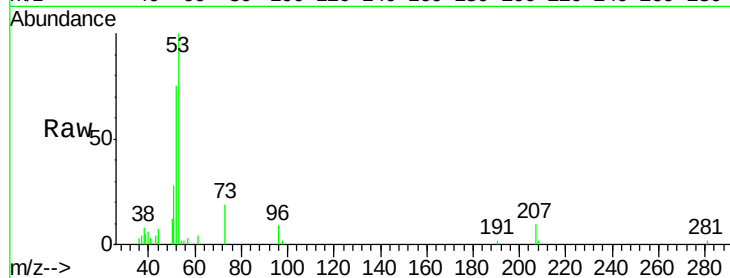
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	53	Resp:	10541
Ion Ratio	Lower	Upper	
53	100		
52	85.8	65.4	98.0
51	37.1	28.7	43.1

Manual Integrations
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#16

Acetone

Concen: 13.950 ug/l

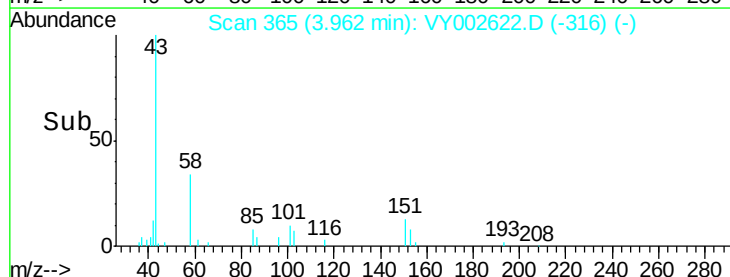
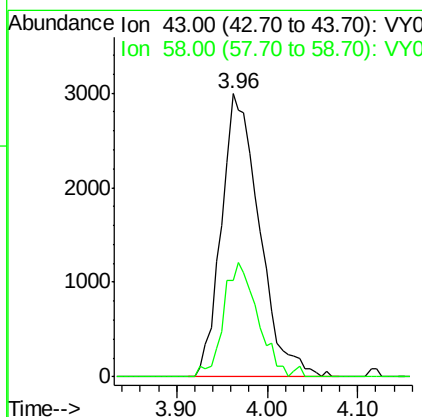
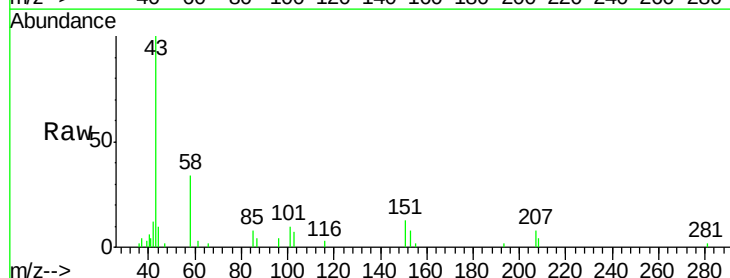
RT: 3.96 min Scan# 365

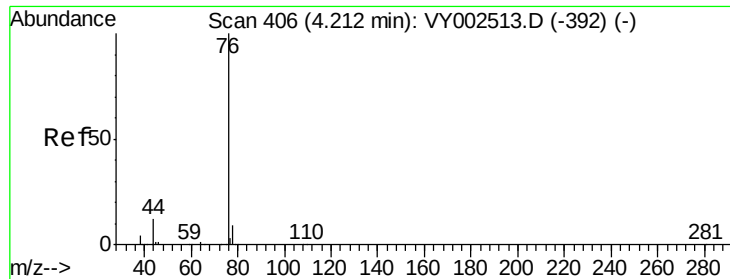
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	43	Resp:	8736
Ion Ratio	Lower	Upper	
43	100		
58	33.9	26.9	40.3





#17

Carbon Disulfide

Concen: 2.586 ug/l

RT: 4.21 min Scan# 406

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 76 Resp: 24168

Ion Ratio Lower Upper

76 100

78 9.7

7.4

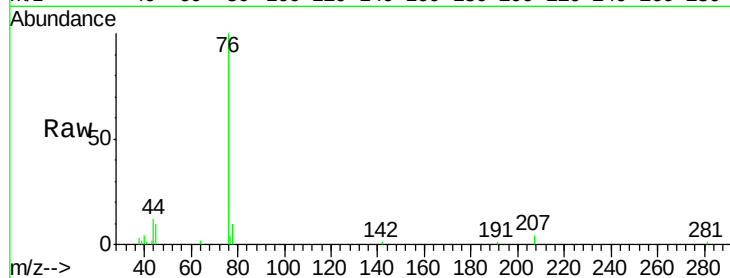
11.2

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Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.21

8000

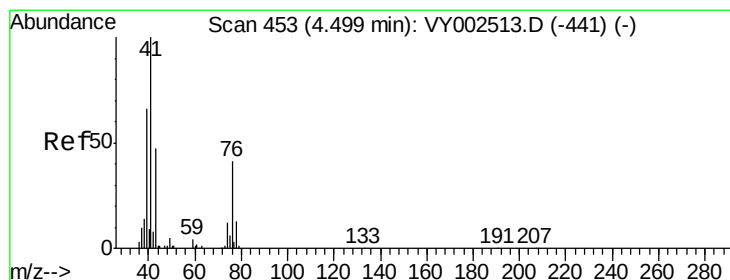
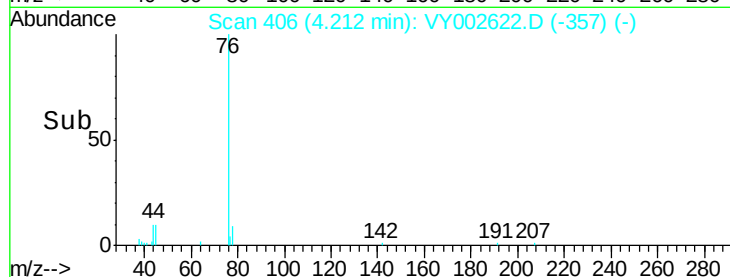
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 3.104 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion: 43 Resp: 6494

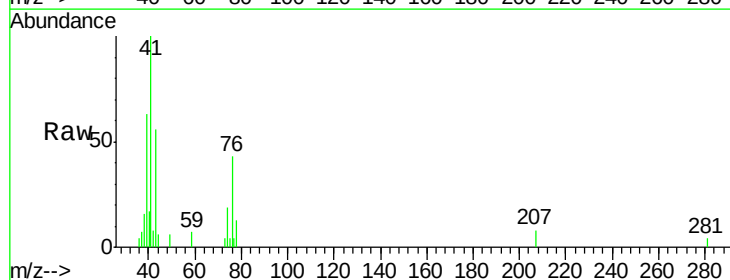
Ion Ratio Lower Upper

43 100

74 26.3

21.2

31.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

4.50

2000

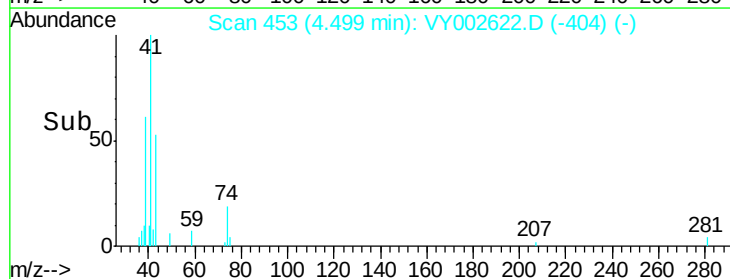
1500

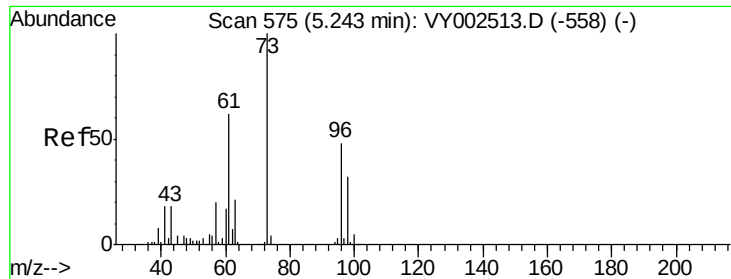
1000

500

0

Time-->





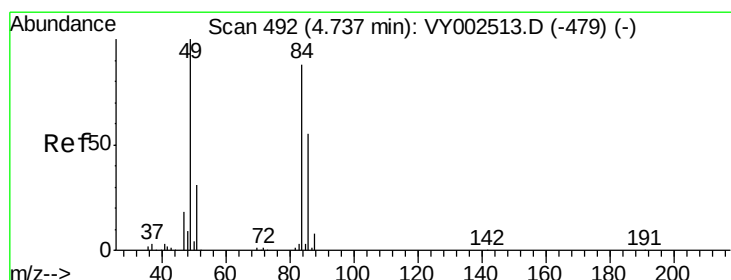
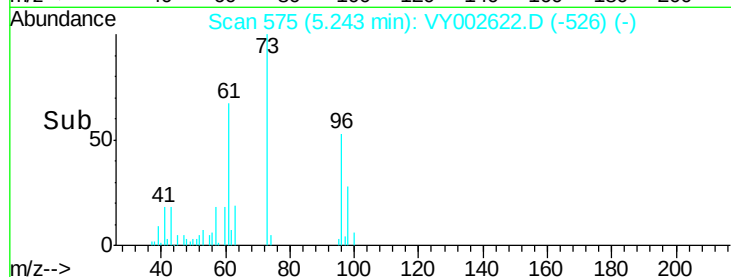
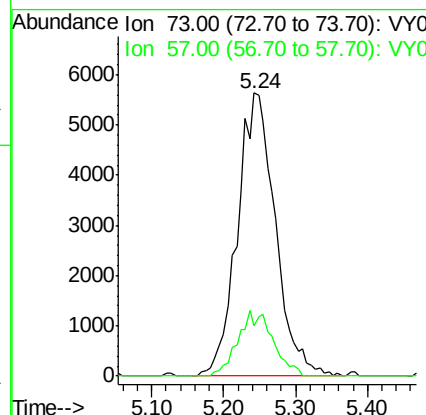
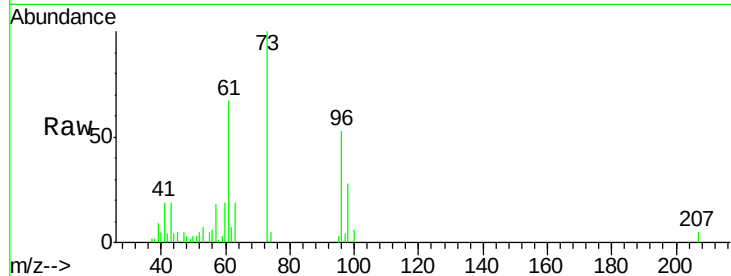
#19
Methyl tert-butyl Ether
Concen: 2.547 ug/l
RT: 5.24 min Scan# 575
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 73 Resp: 20644
Ion Ratio Lower Upper
73 100
57 17.7 16.3 24.5

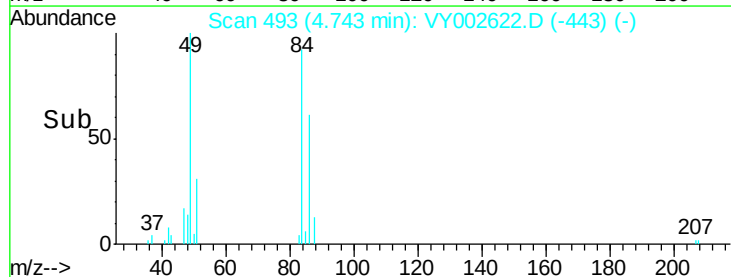
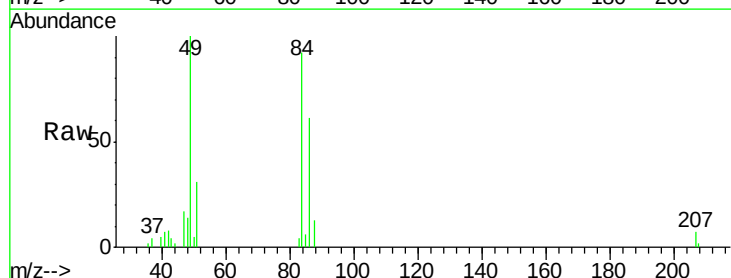
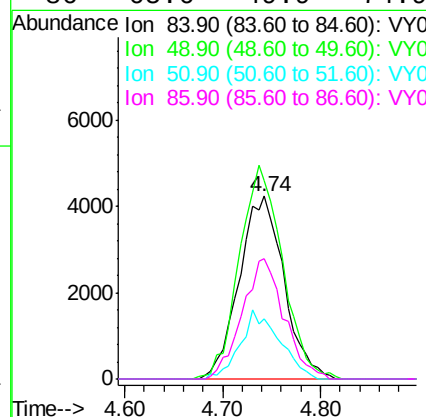
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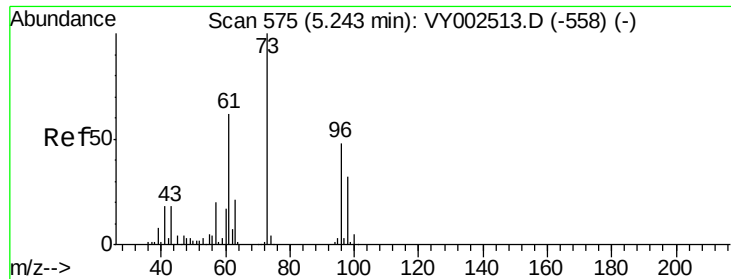
MMDadoda
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#20
Methylene Chloride
Concen: 3.845 ug/l
RT: 4.74 min Scan# 493
Delta R.T. 0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion: 84 Resp: 13465
Ion Ratio Lower Upper
84 100
49 108.3 90.5 135.7
51 33.1 28.3 42.5
86 65.6 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 2.673 ug/l

RT: 5.24 min Scan# 575

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

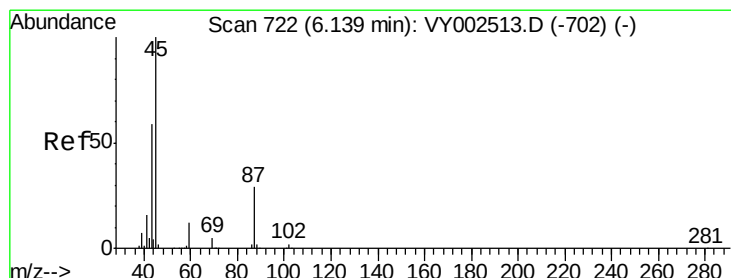
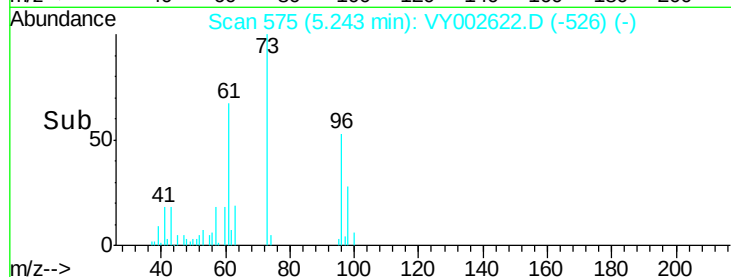
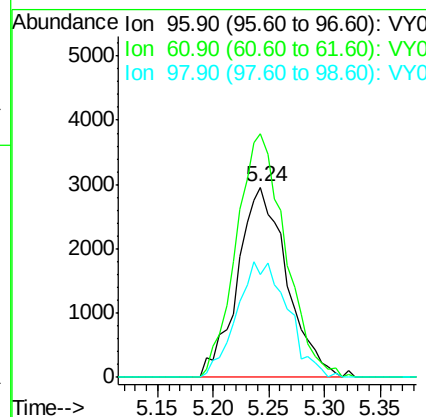
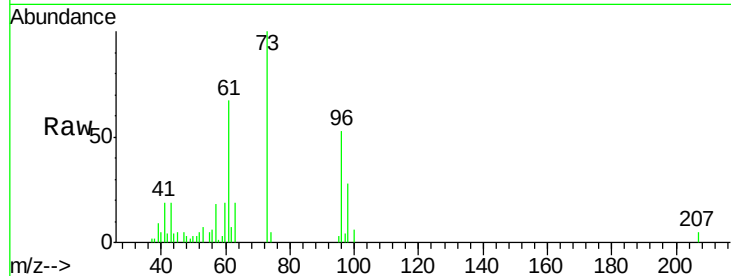
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	96	Resp:	9076
Ion	Ratio	Lower	Upper
96	100		
61	128.0	102.0	153.0
98	54.0	53.0	79.4

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#22

Diisopropyl ether

Concen: 2.608 ug/l

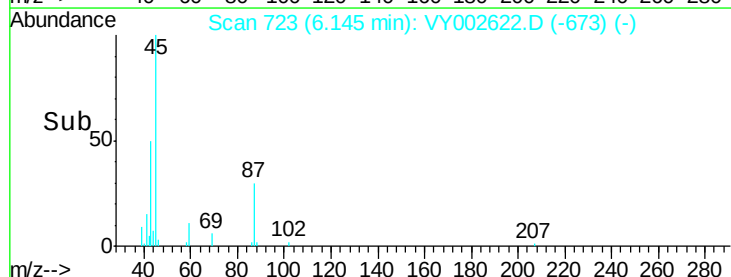
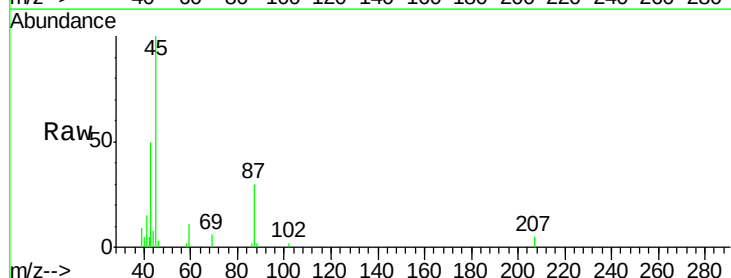
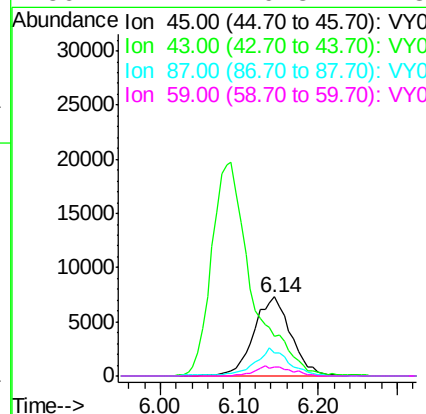
RT: 6.14 min Scan# 723

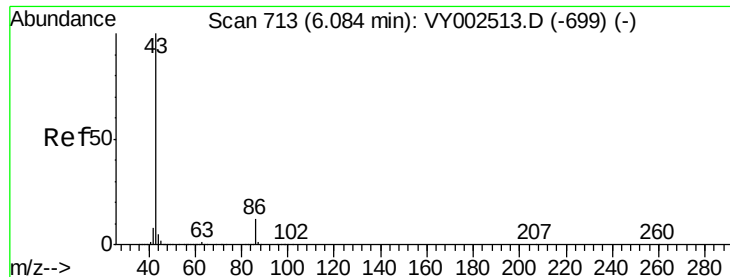
Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	45	Resp:	23882
Ion	Ratio	Lower	Upper
45	100		
43	47.3	47.4	71.0#
87	29.9	24.0	36.0
59	11.1	9.8	14.8





#23

Vinyl Acetate

Concen: 12.122 ug/l

RT: 6.09 min Scan# 714

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 69823

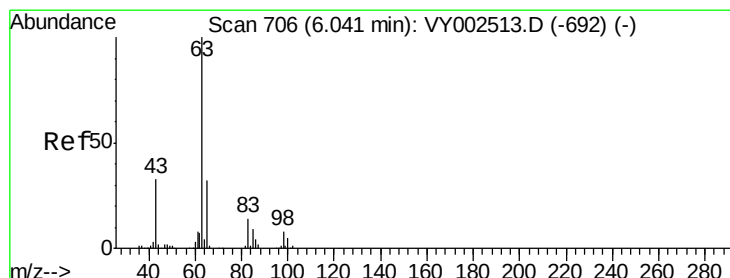
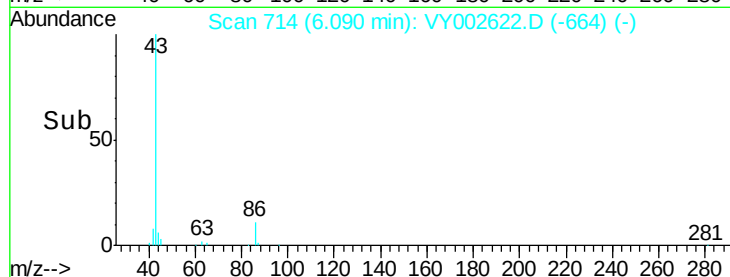
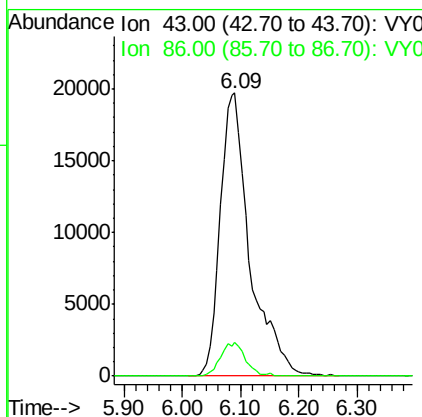
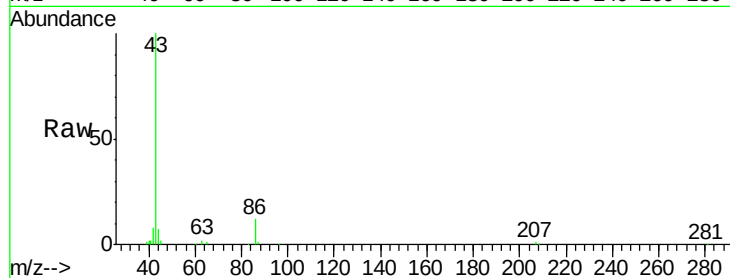
Ion Ratio Lower Upper

43 100

86 12.1 9.8 14.6

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#24

1,1-Dichloroethane

Concen: 2.621 ug/l

RT: 6.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

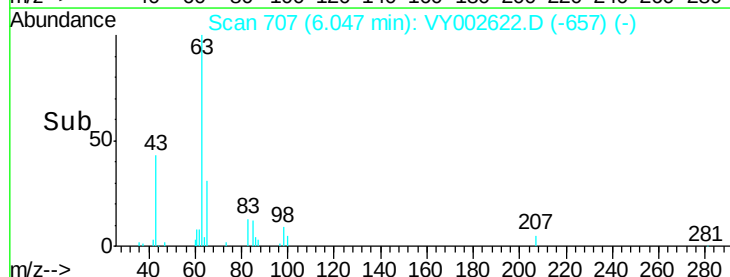
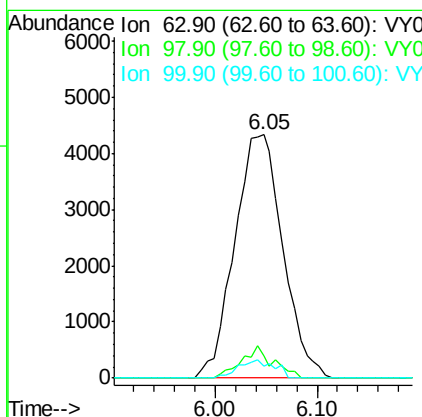
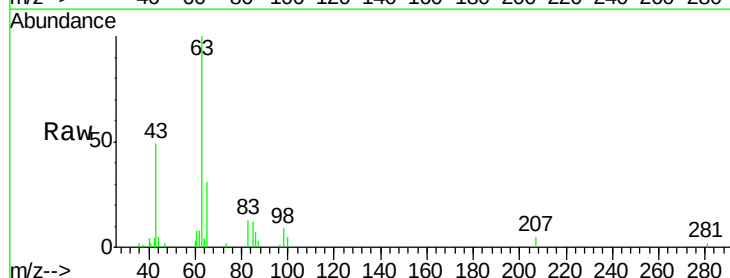
Tgt Ion: 63 Resp: 14200

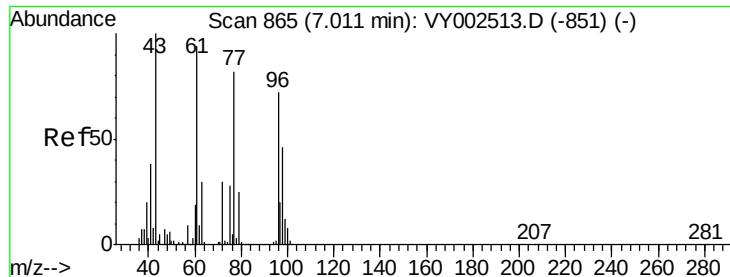
Ion Ratio Lower Upper

63 100

98 8.9 3.9 11.7

100 4.8 2.4 7.2





#25

2-Butanone

Concen: 13.824 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 14171

Ion Ratio Lower Upper

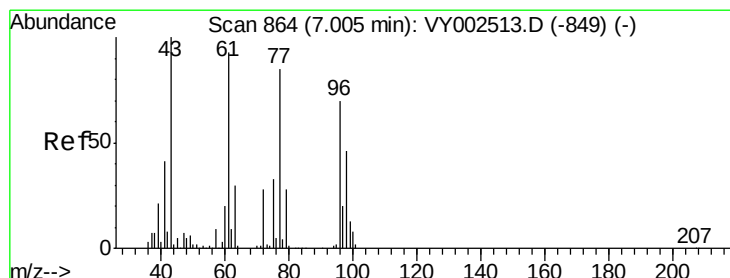
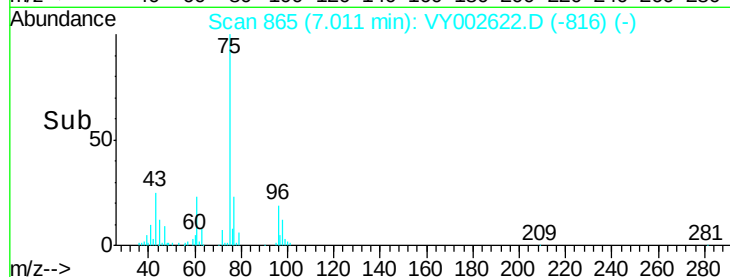
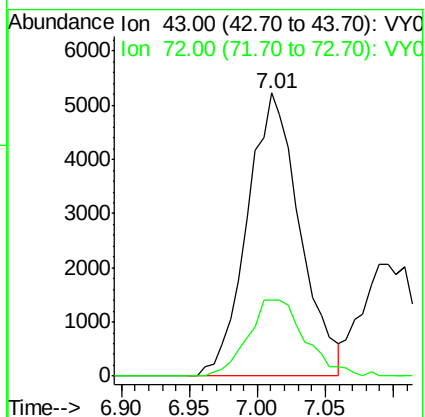
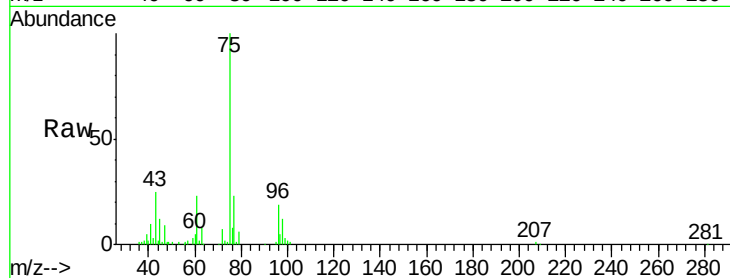
43 100

72 27.0 24.1 36.1

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 2.976 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY002622.D

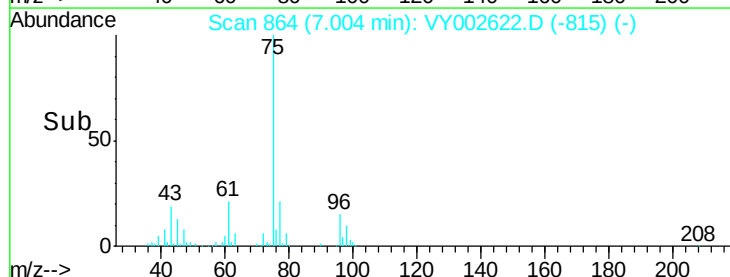
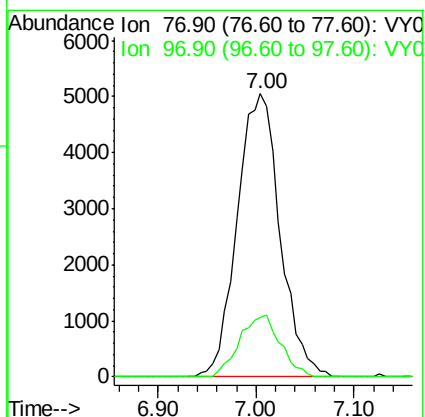
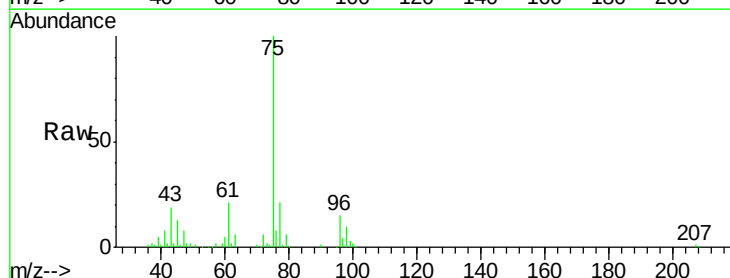
Acq: 07 May 2020 11:46

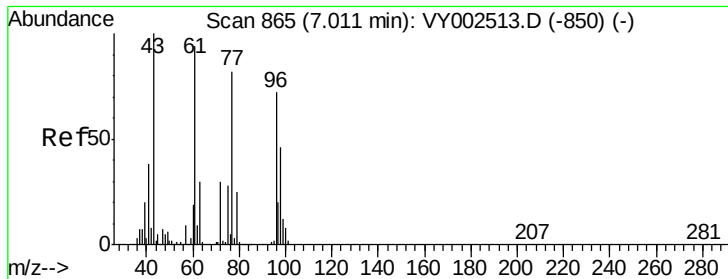
Tgt Ion: 77 Resp: 15326

Ion Ratio Lower Upper

77 100

97 20.7 11.9 35.5





#27

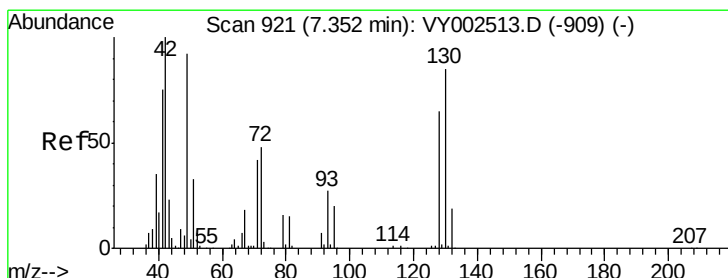
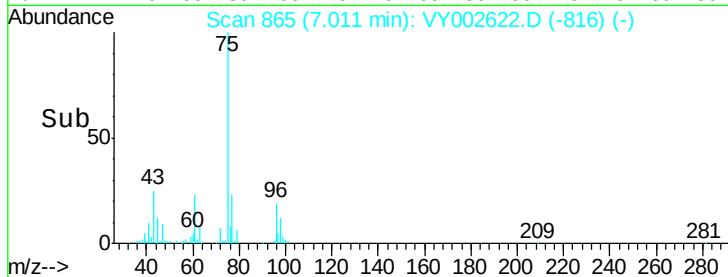
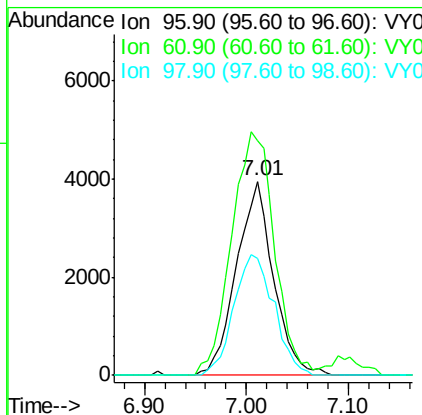
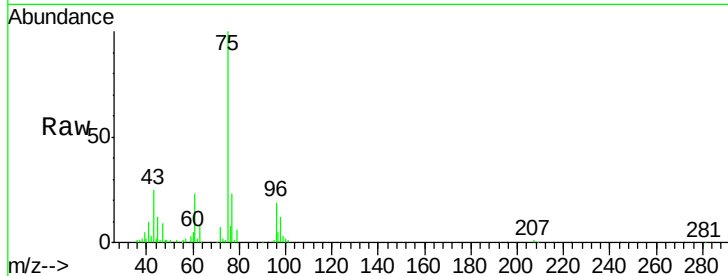
cis-1,2-Dichloroethene
Concen: 2.658 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	266.6
98	66.9	0.0	129.2

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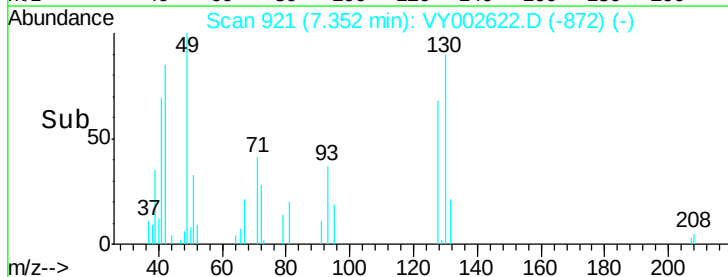
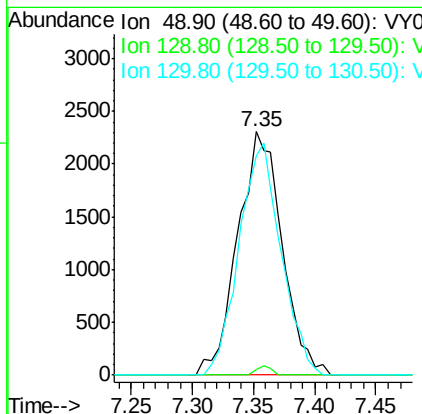
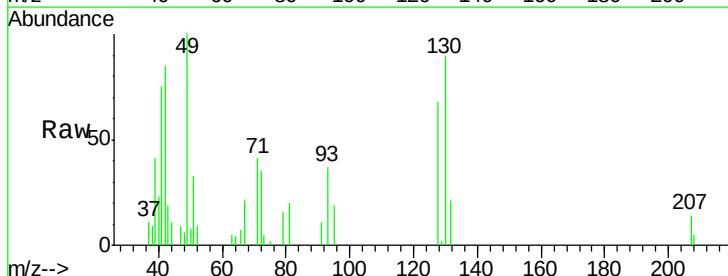
MMDadoda
5/8/2020 1:23:47 PM

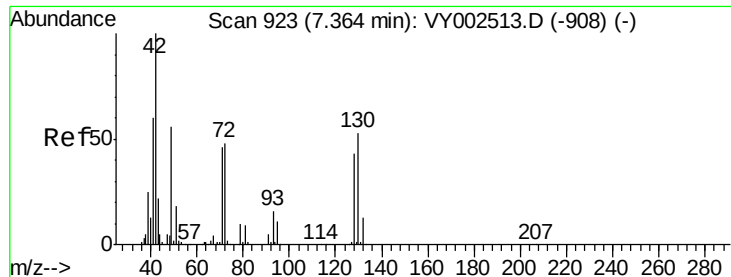


#28

Bromochloromethane
Concen: 2.615 ug/l
RT: 7.35 min Scan# 921
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.8
130	90.3	72.5	108.7





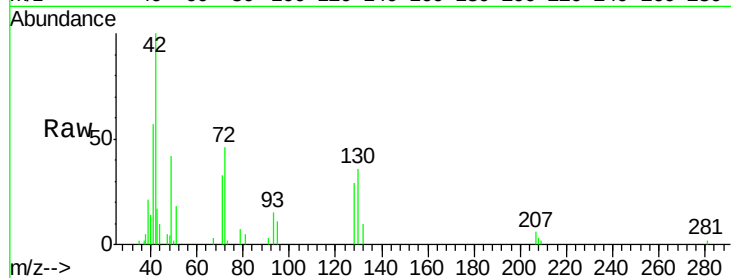
#29
Tetrahydrofuran
Concen: 13.448 ug/l
RT: 7.37 min Scan# 924
Delta R.T. 0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

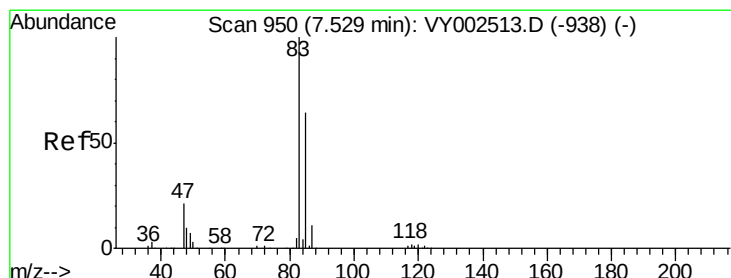
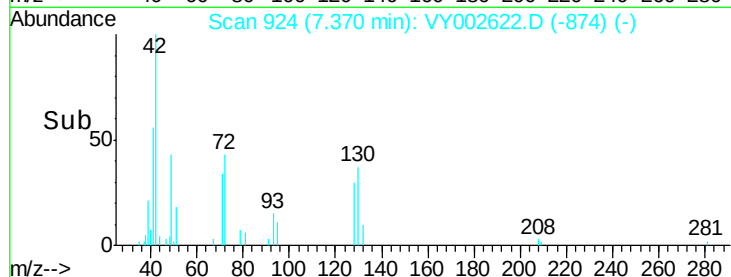
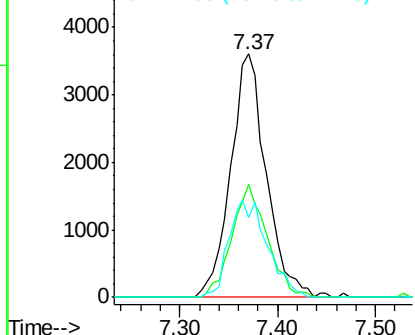
Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.4	56.2
71	43.1	35.0	52.4

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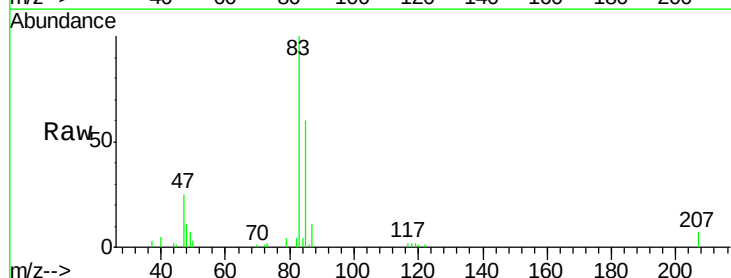


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

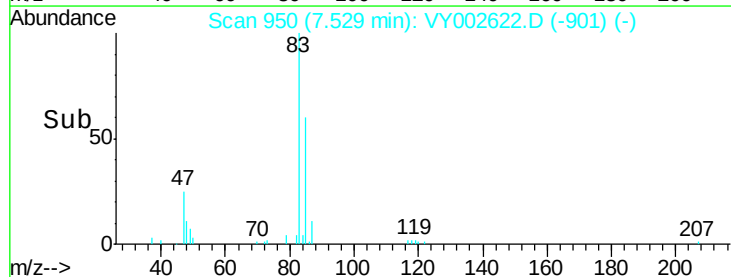
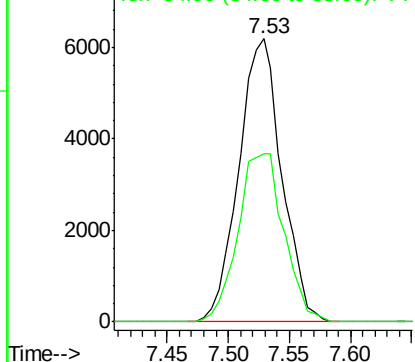


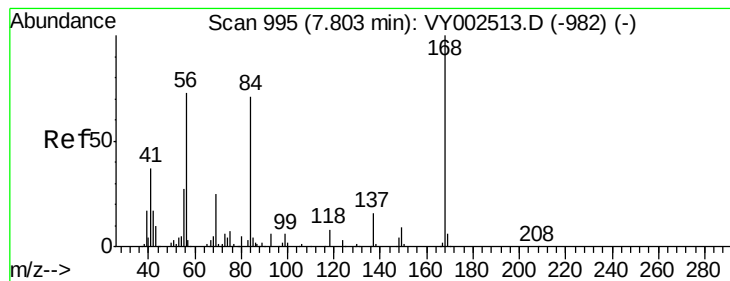
#30
Chloroform
Concen: 2.689 ug/l
RT: 7.53 min Scan# 950
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.5	51.5	77.3



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 3.488 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

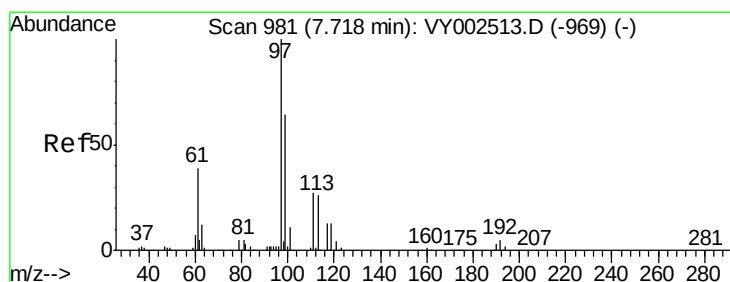
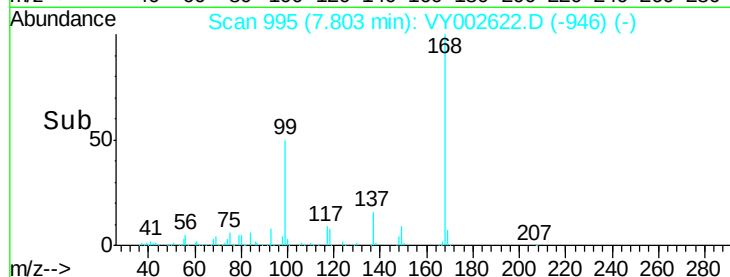
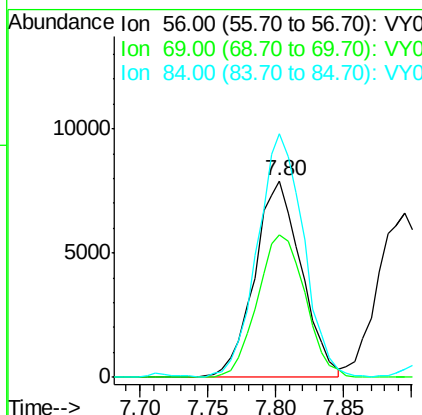
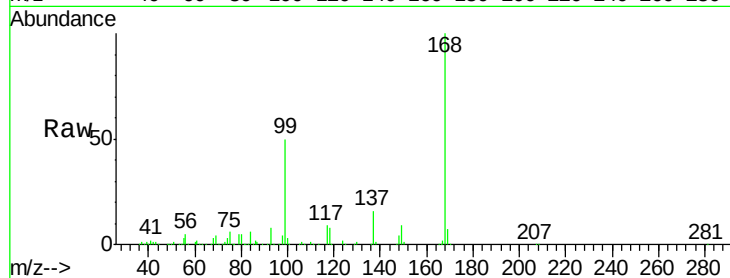
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	56	Resp:	19024
Ion	Ratio	Lower	Upper
56	100		
69	72.6	27.6	41.4#
84	123.0	77.7	116.5#

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#32

1,1,1-Trichloroethane

Concen: 2.633 ug/l

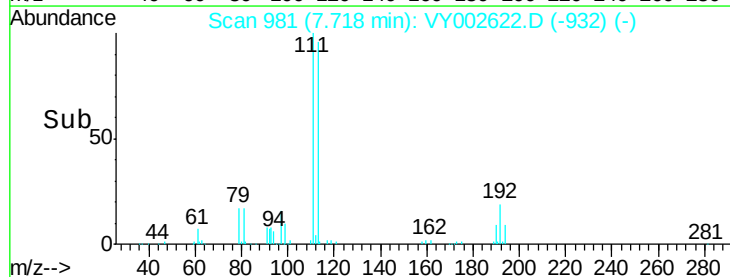
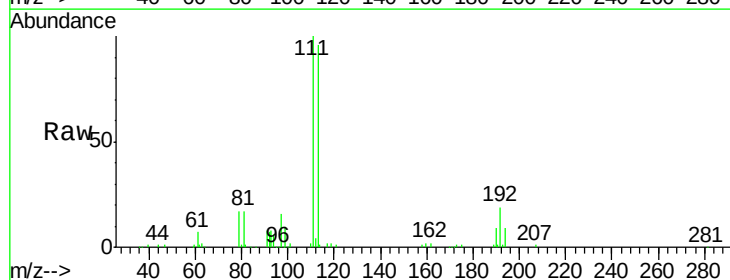
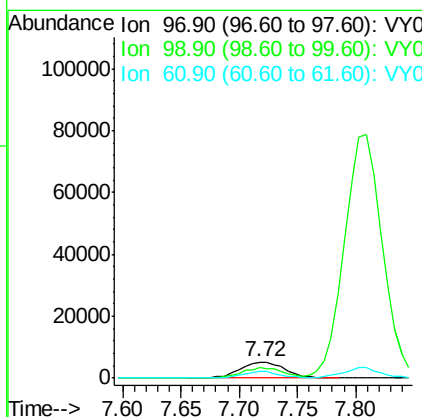
RT: 7.72 min Scan# 981

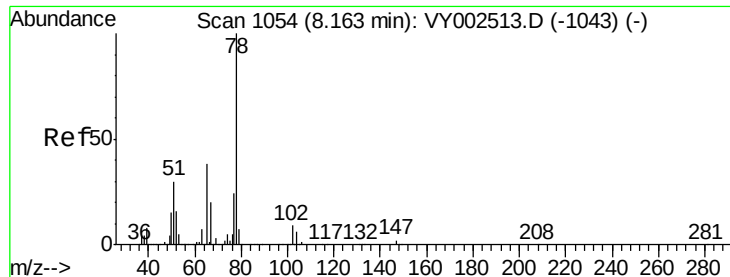
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	97	Resp:	13786
Ion	Ratio	Lower	Upper
97	100		
99	59.8	51.9	77.9
61	37.3	31.0	46.6





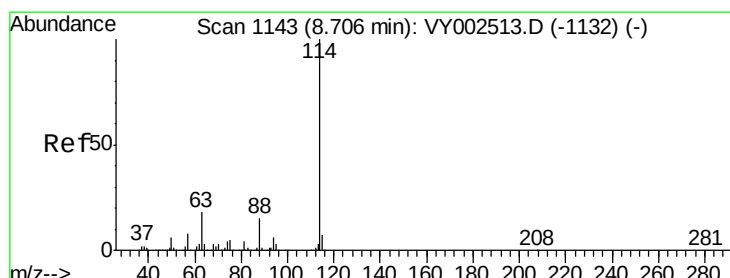
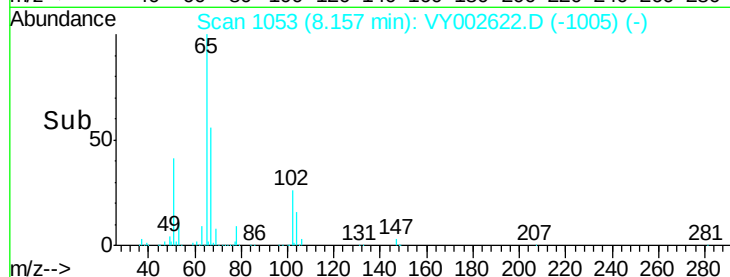
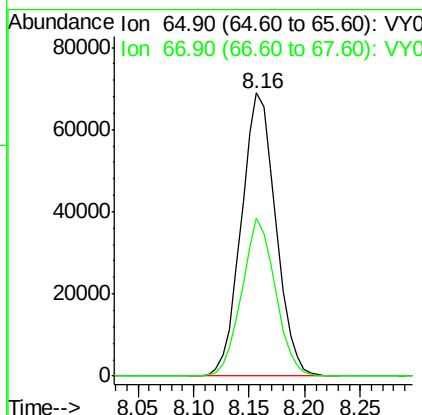
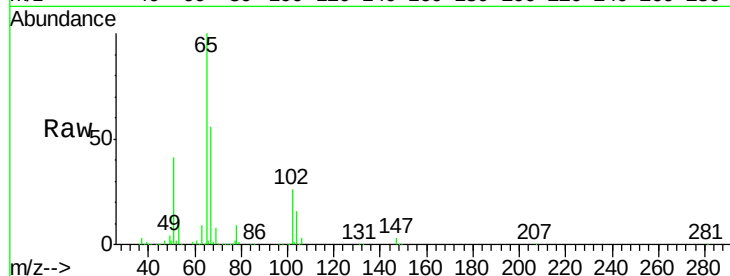
#33
 1,2-Dichloroethane-d4
 Concen: 48.857 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.3	0.0	107.2	

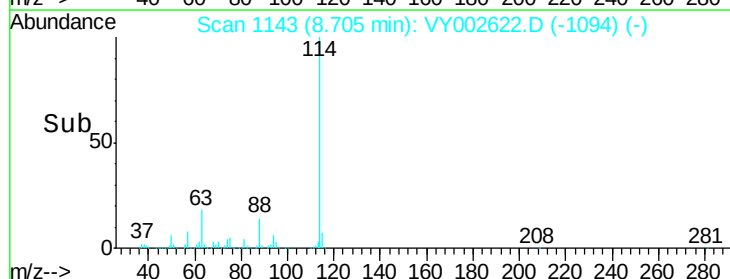
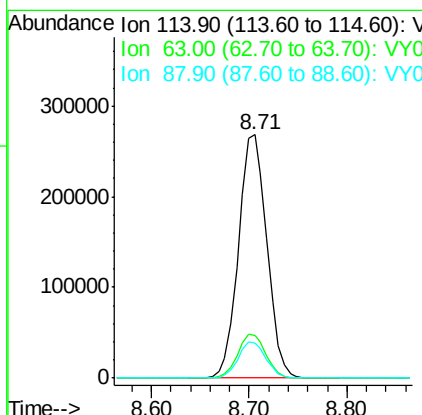
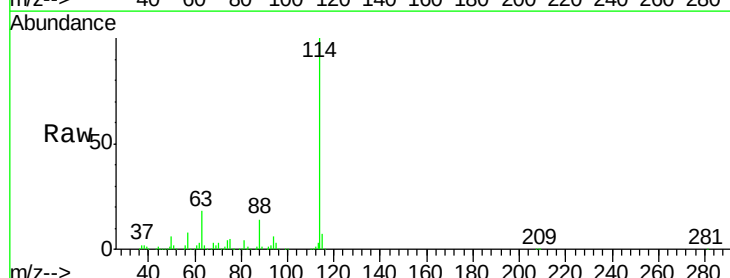
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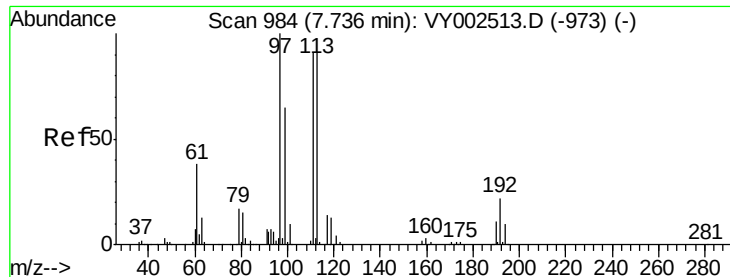
MMDadoda
 5/8/2020 1:23:47 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.7	0.0	36.4	
88	14.4	0.0	29.6	





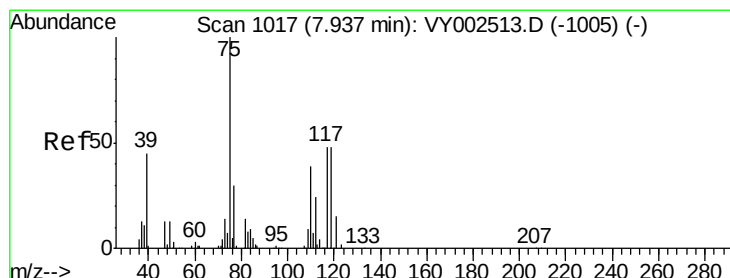
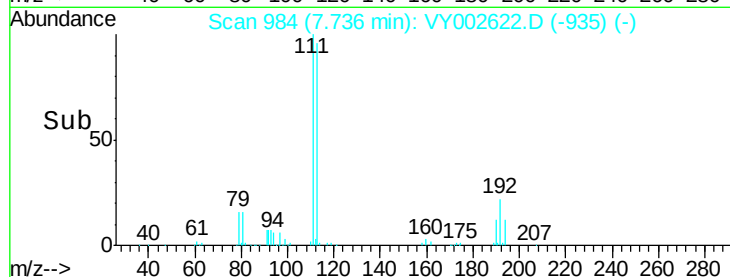
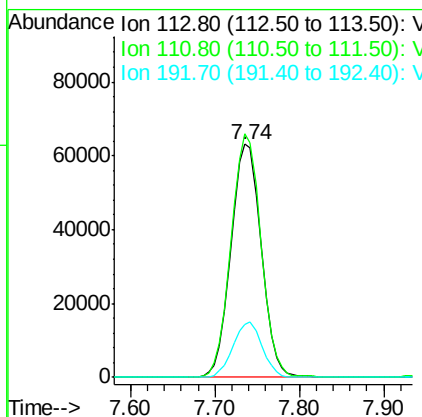
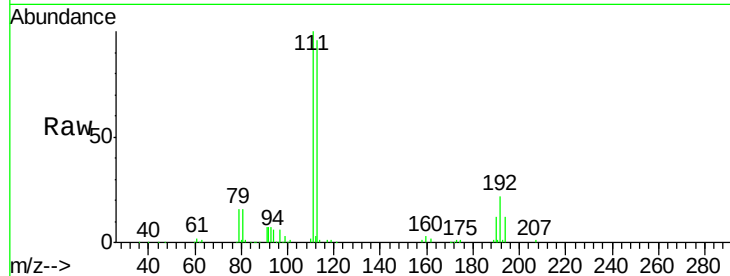
#35
 Dibromofluoromethane
 Concen: 49.901 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	23.0	18.2	27.4

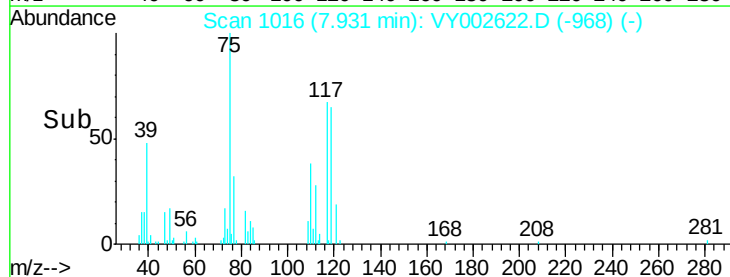
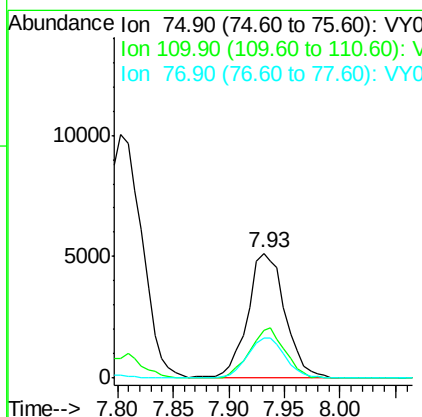
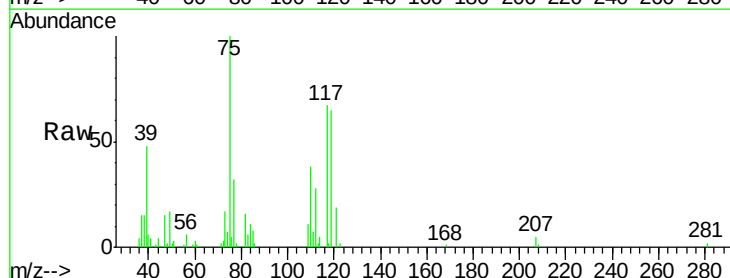
Manual Integrations
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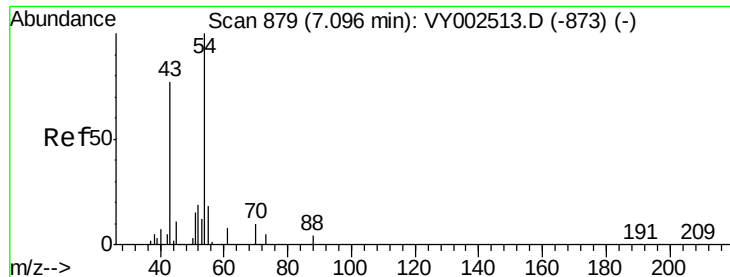
MMDadoda
 5/8/2020 1:23:47 PM



#36
 1,1-Dichloropropene
 Concen: 2.683 ug/l
 RT: 7.93 min Scan# 1016
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.3	19.1	57.3
77	32.1	24.6	37.0





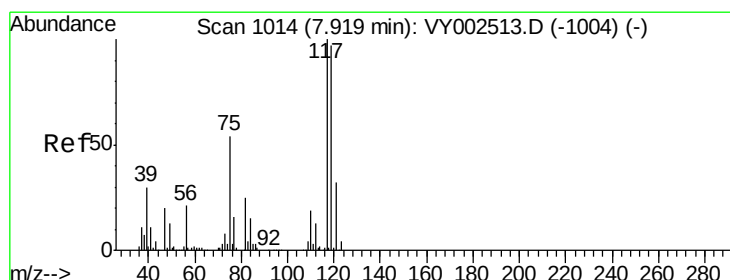
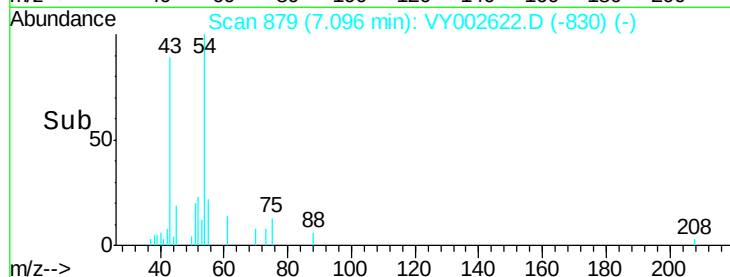
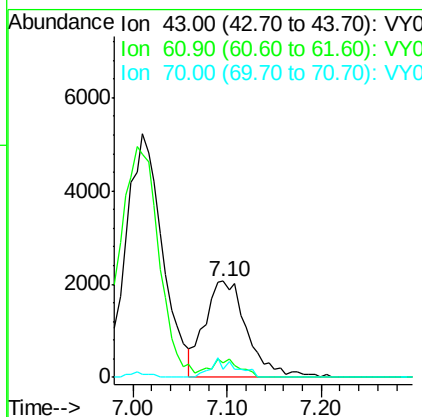
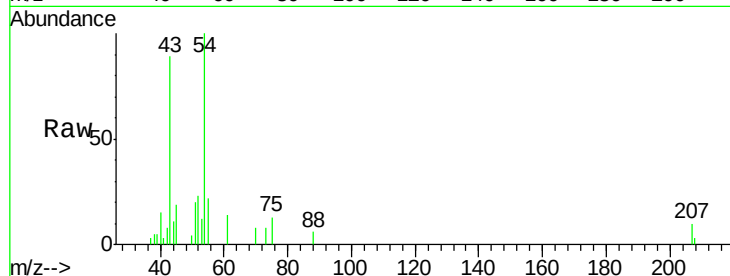
#37
Ethyl Acetate
Concen: 2.786 ug/l
RT: 7.10 min Scan# 879
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	11.6	17.4
70	11.5	9.0	13.6

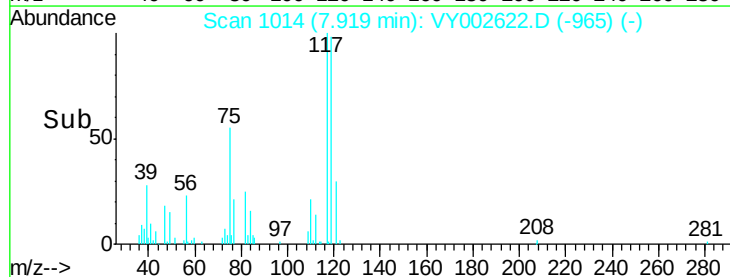
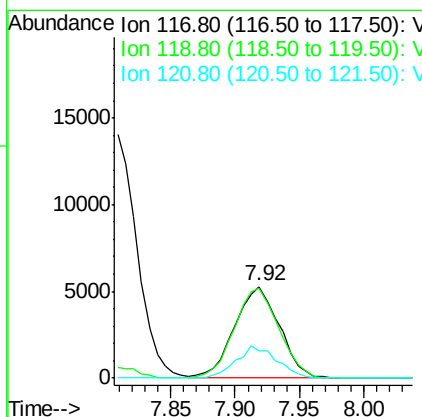
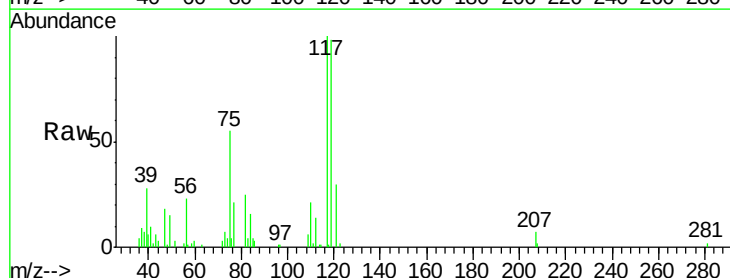
Manual Integrations
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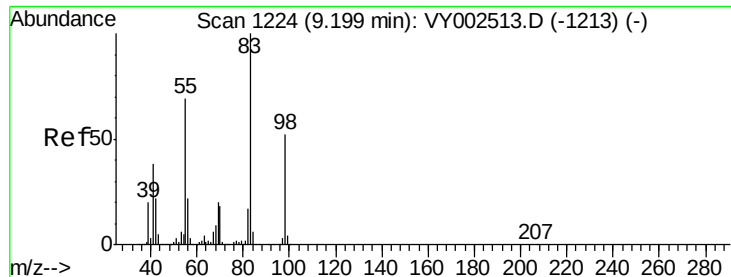
MMDadoda
5/8/2020 1:23:47 PM



#38
Carbon Tetrachloride
Concen: 2.596 ug/l
RT: 7.92 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.1	115.7
121	29.9	25.2	37.8





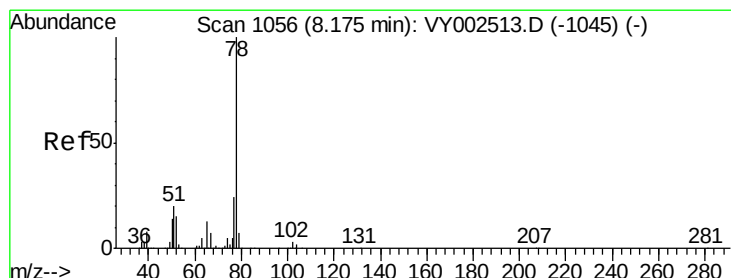
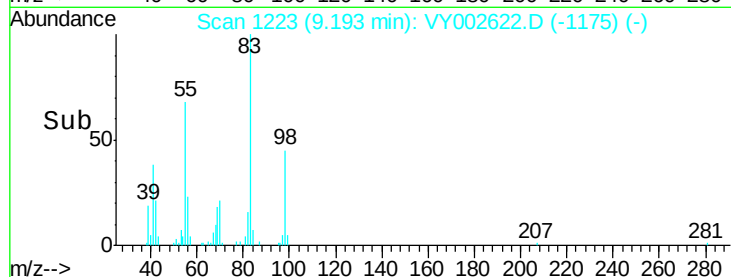
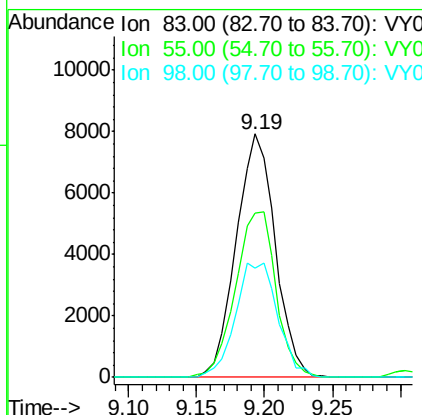
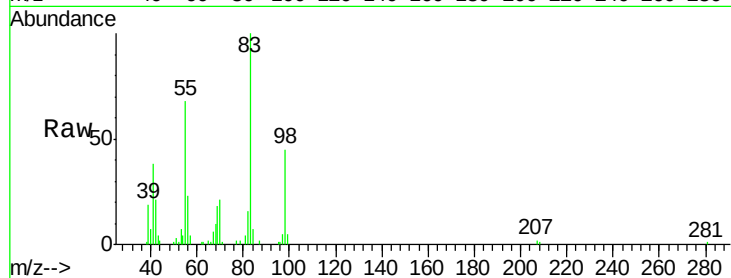
#39
Methylvlcyclohexane
Concen: 2.673 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	83	Resp	15914
Ion Ratio	Lower	Upper	
83	100		
55	67.7	55.4	83.0
98	44.7	41.3	61.9

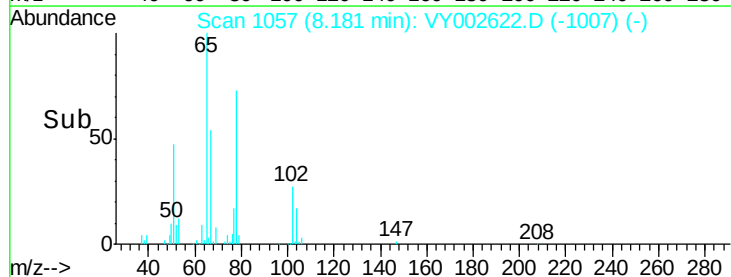
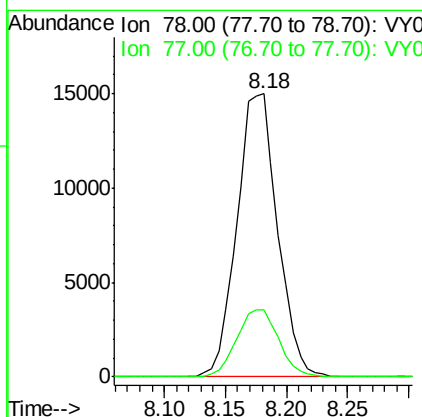
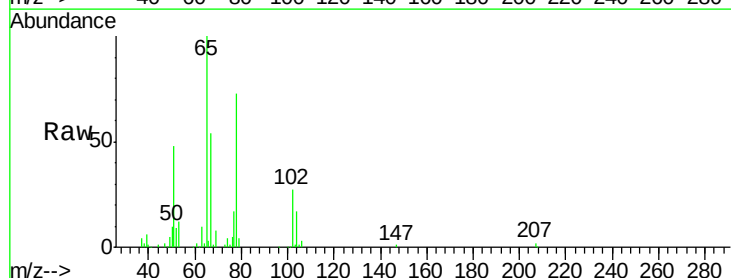
Manual Integrations
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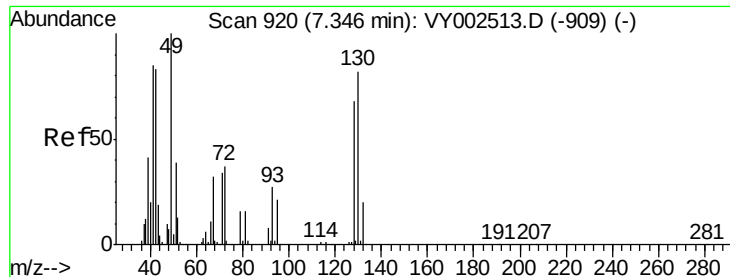
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#40
Benzene
Concen: 2.652 ug/l
RT: 8.18 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	78	Resp	34522
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.2	28.8





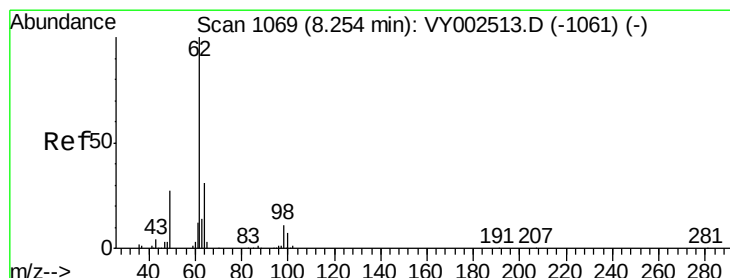
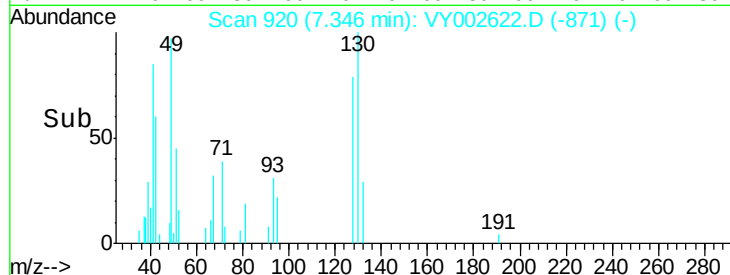
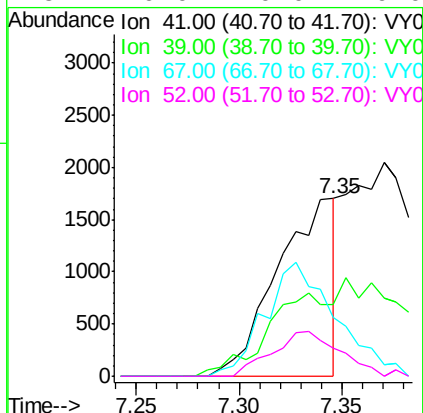
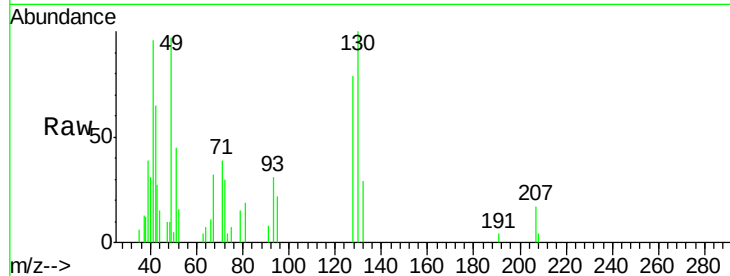
#41
Methacrylonitrile
Concen: 2.741 ug/l m
RT: 7.35 min Scan# 920
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	41	Resp	3413
Ion	Ratio	Lower	Upper
41	100		
39	63.1	83.1	124.7#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

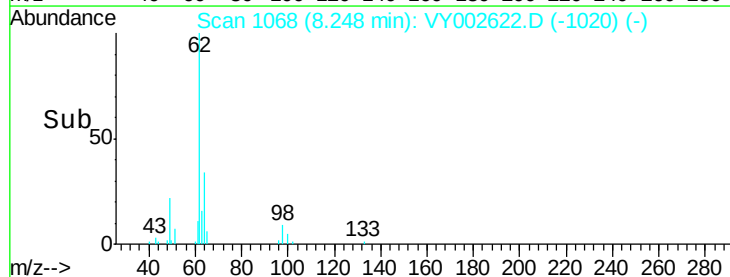
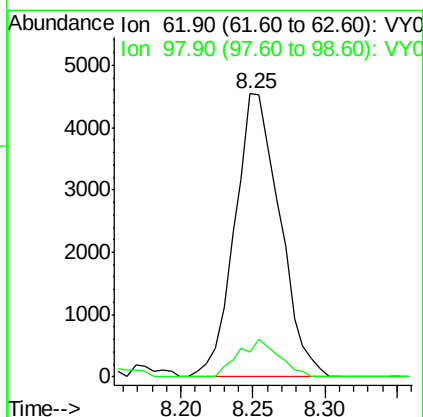
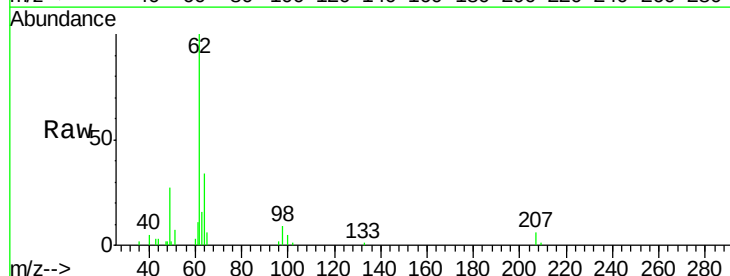
Manual Integrations
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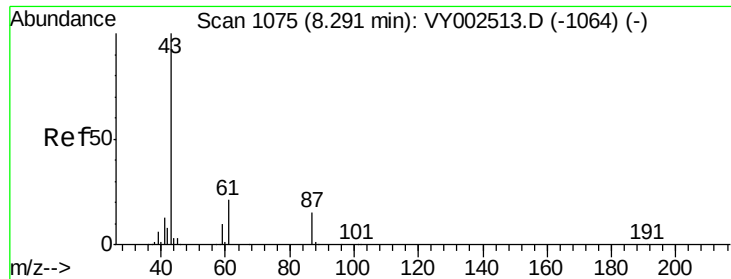
MMDadoda
5/8/2020 1:23:47 PM



#42
1,2-Dichloroethane
Concen: 2.701 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	62	Resp	9861
Ion	Ratio	Lower	Upper
62	100		
98	11.9	0.0	21.0





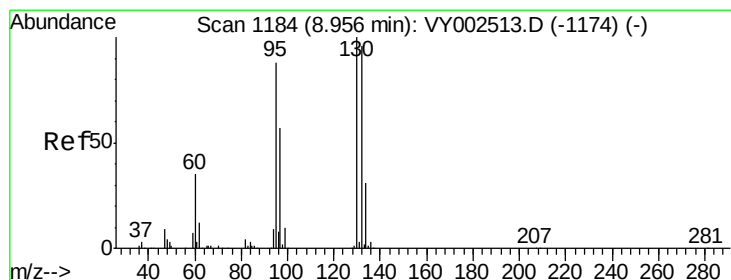
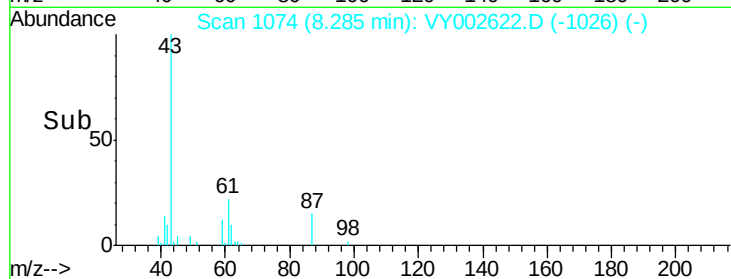
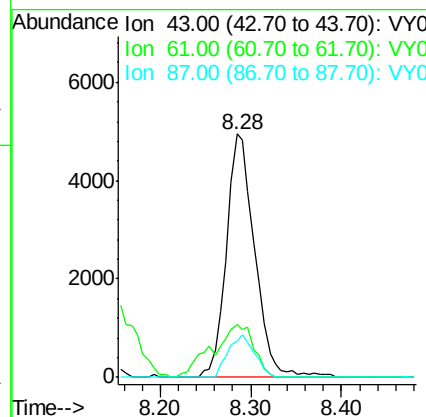
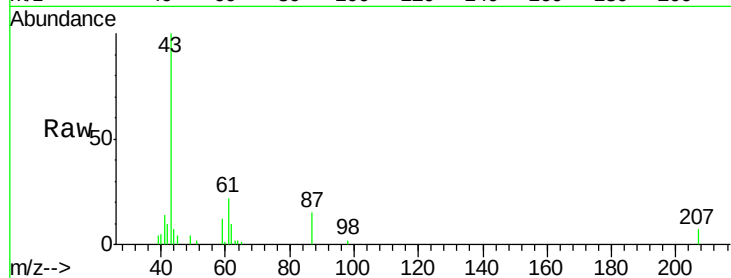
#43
Isopropyl Acetate
Concen: 2.475 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.7	24.8	37.2
87	16.2	12.2	18.2

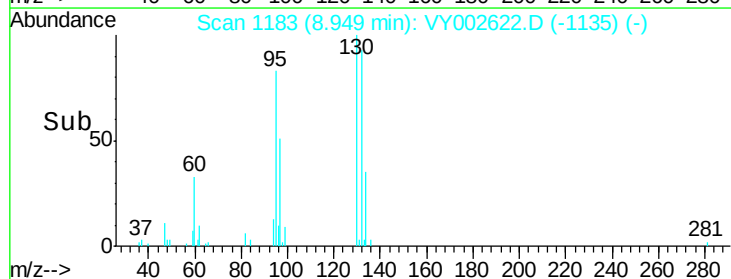
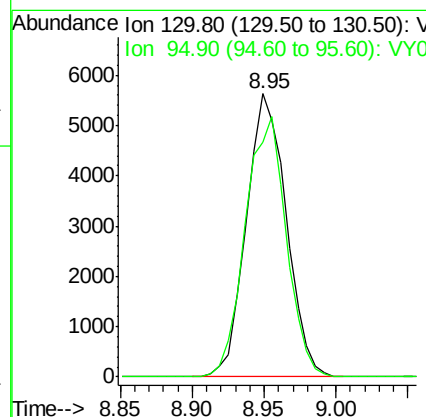
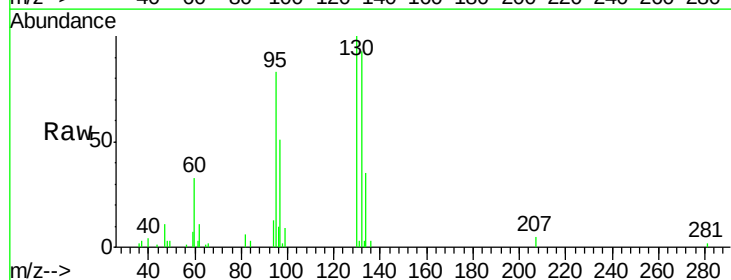
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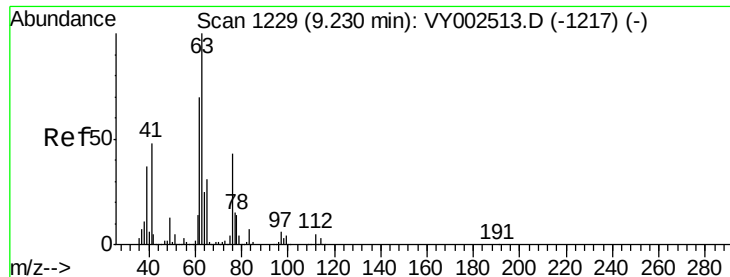
MMDadoda
5/8/2020 1:23:47 PM



#44
Trichloroethene
Concen: 2.656 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	83.0	0.0	175.8





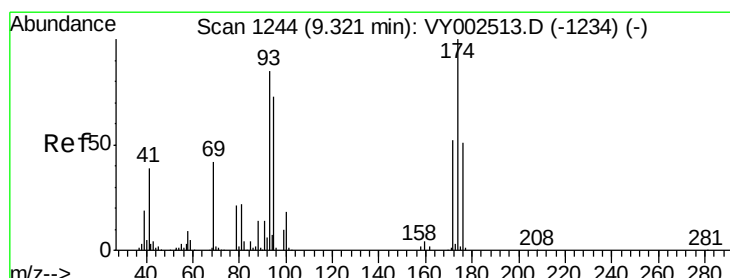
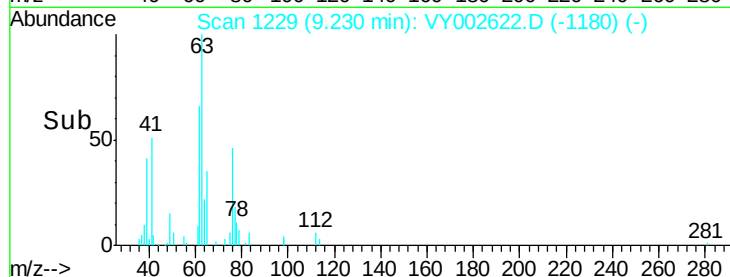
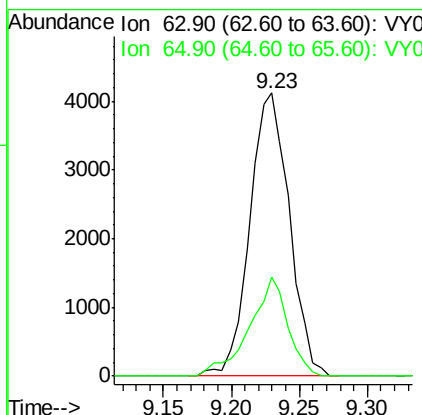
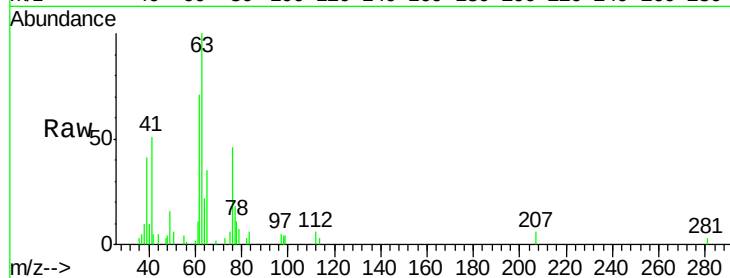
#45
 1,2-Dichloropropane
 Concen: 2.670 ug/l
 RT: 9.23 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.2	24.5	36.7

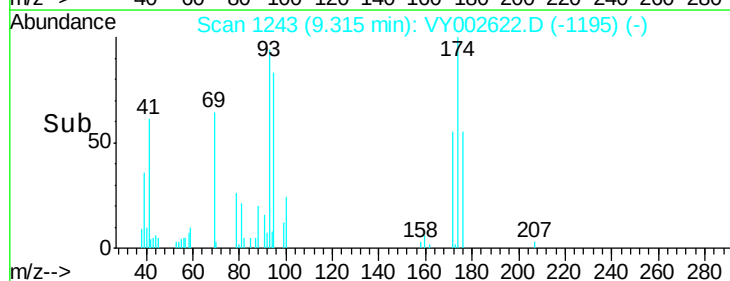
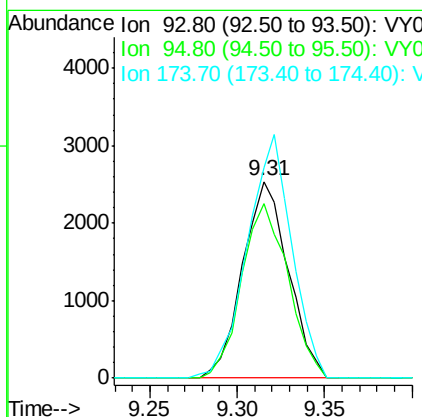
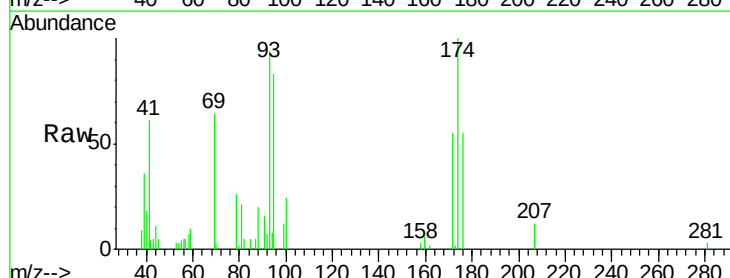
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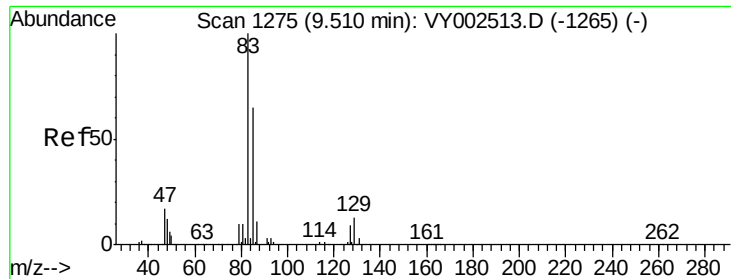
MMDadoda
 5/8/2020 1:23:47 PM



#46
 Dibromomethane
 Concen: 2.550 ug/l
 RT: 9.31 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
93	100		
95	89.9	67.0	100.4
174	120.6	92.7	139.1





#47

Bromodichloromethane

Concen: 2.585 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

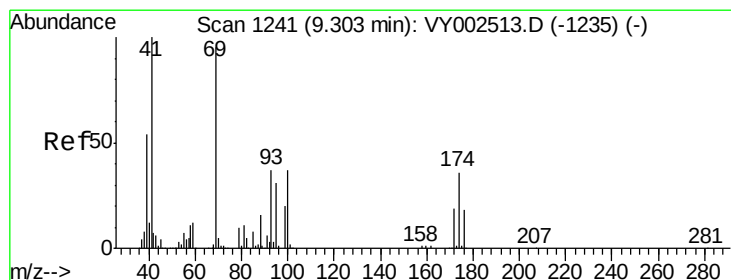
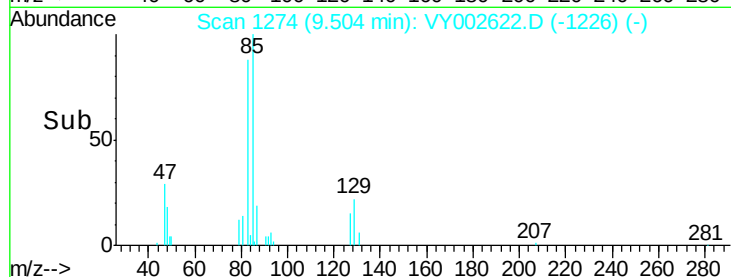
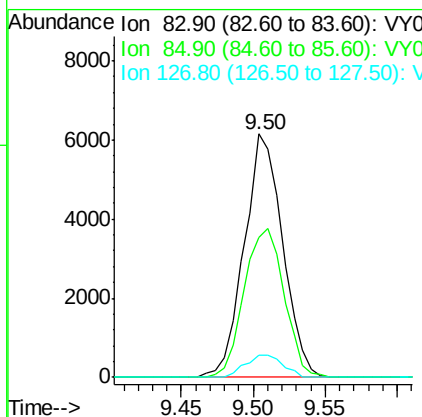
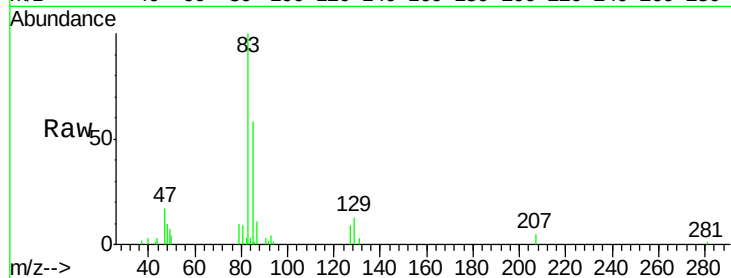
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	83	Resp:	11362
Ion	Ratio	Lower	Upper
83	100		
85	57.6	51.8	77.8
127	8.9	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.360 ug/l

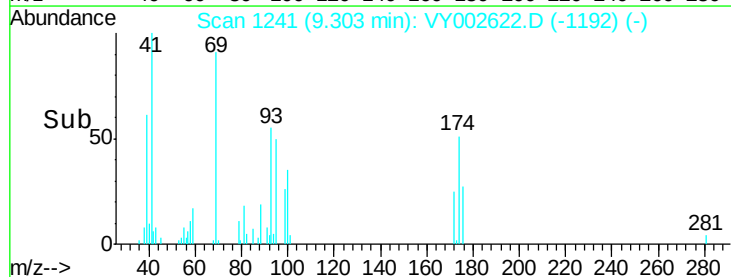
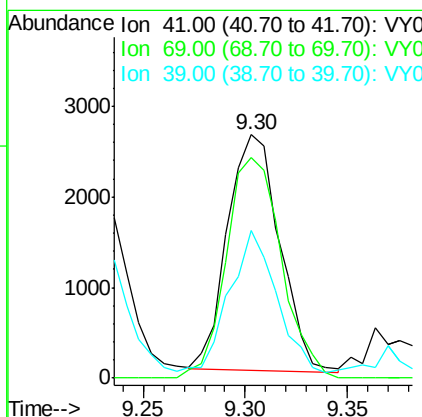
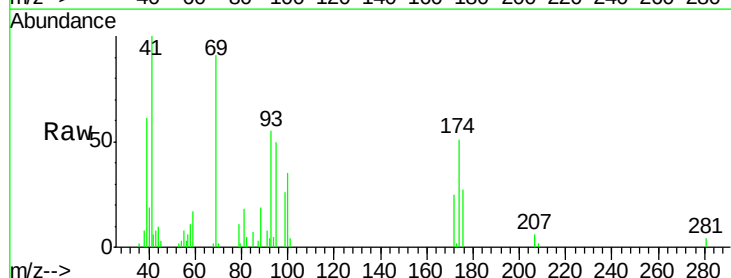
RT: 9.30 min Scan# 1241

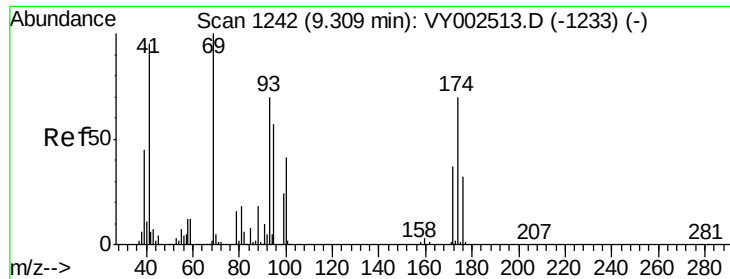
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	41	Resp:	4637
Ion	Ratio	Lower	Upper
41	100		
69	98.5	76.2	114.4
39	59.9	42.7	64.1





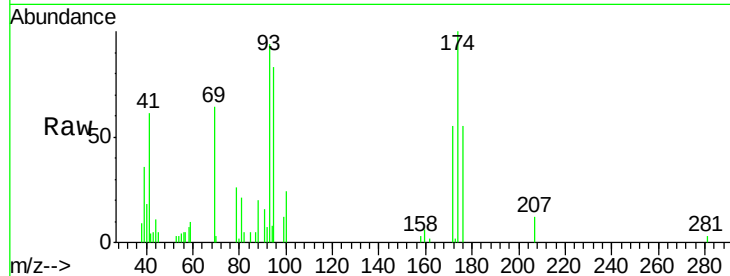
#49
1,4-Dioxane
Concen: 55.445 ug/l
RT: 9.31 min Scan# 1243
Delta R.T. 0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

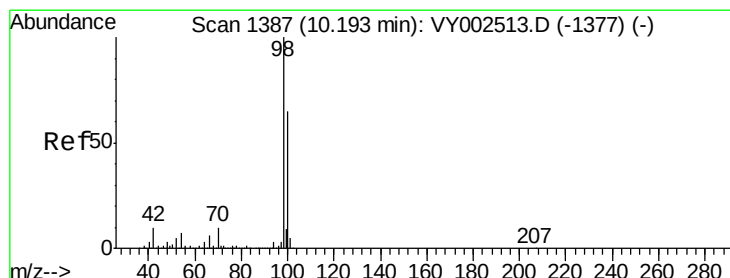
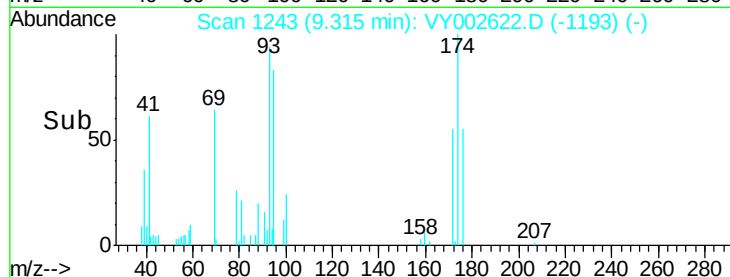
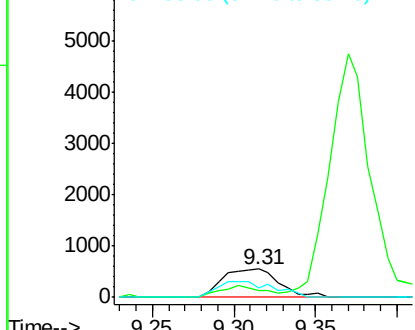
Tot Ion	88	Resp	1327
Ion	Ratio	Lower	Upper
88	100		
43	31.1	22.8	34.2
58	56.7	51.4	77.2

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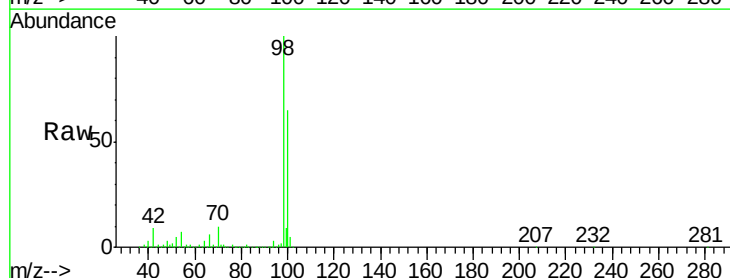


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

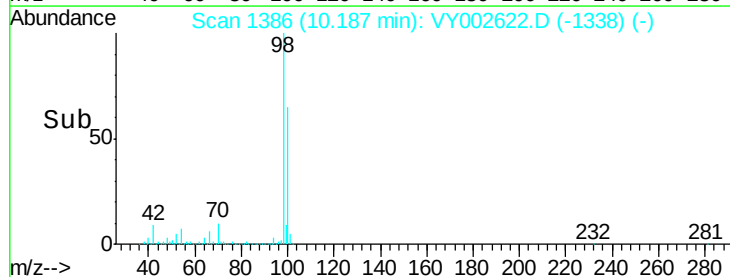
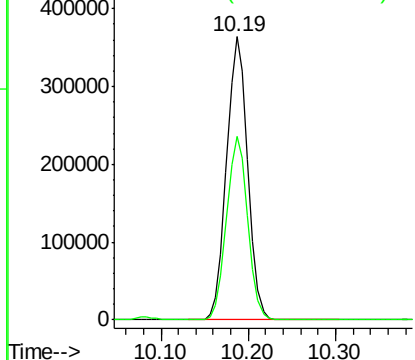


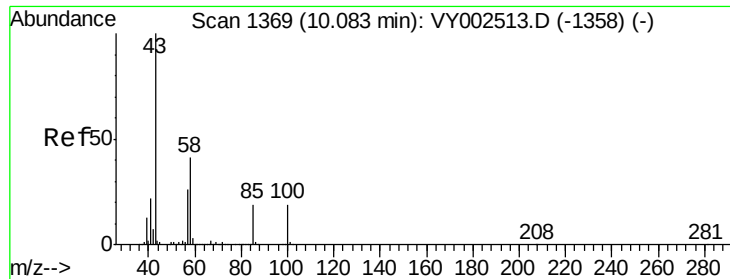
#50
Toluene-d8
Concen: 50.671 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	98	Resp	608436
Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





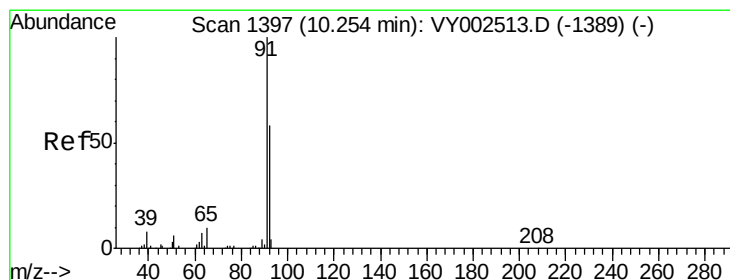
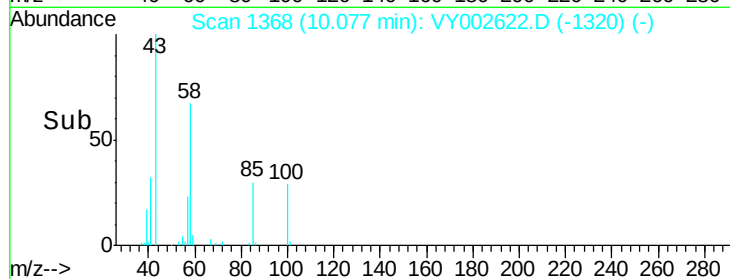
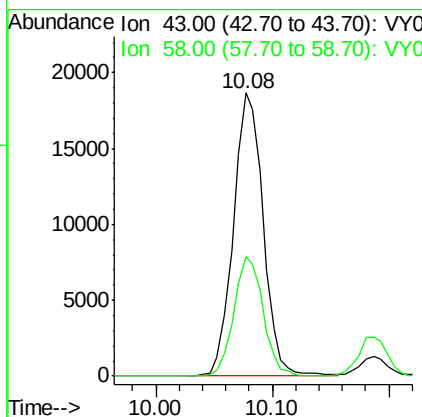
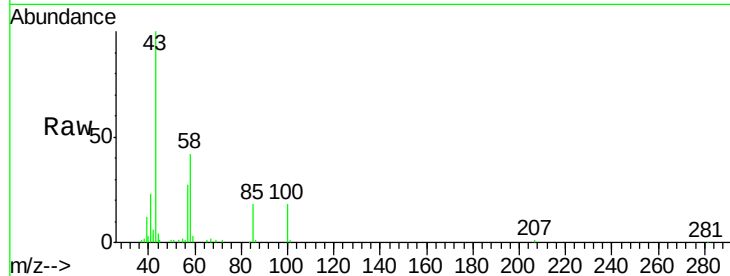
#51
4-Methyl-2-Pentanone
Concen: 14.900 ug/l
RT: 10.08 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.4	33.2	49.8

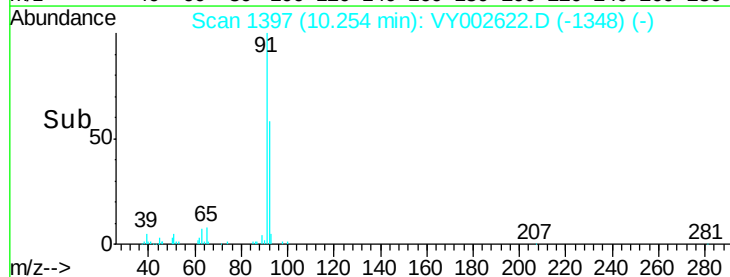
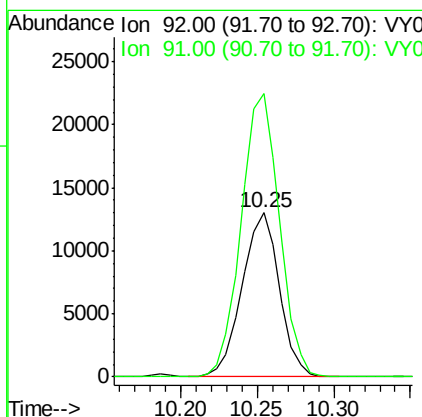
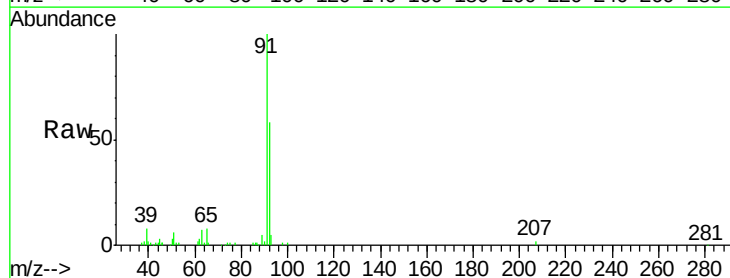
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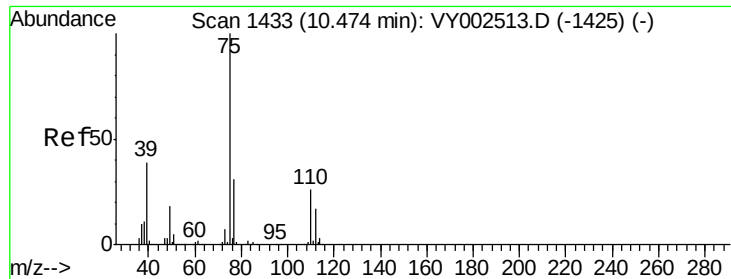
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#52
Toluene
Concen: 2.639 ug/l
RT: 10.25 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.3	139.3	208.9





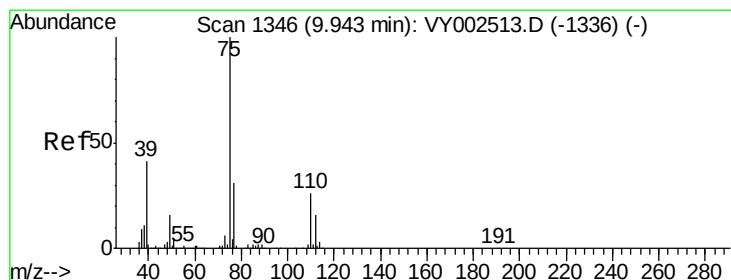
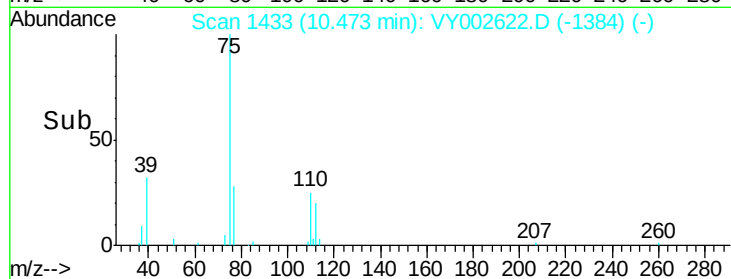
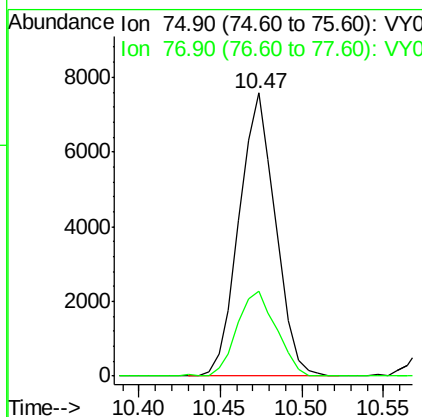
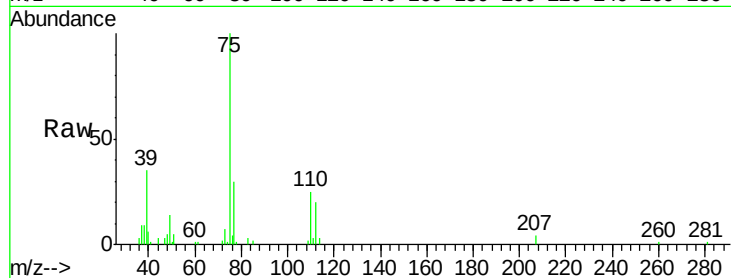
#53
t-1,3-Dichloropropene
Concen: 2.552 ug/l
RT: 10.47 min Scan# 1433
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.0	37.6

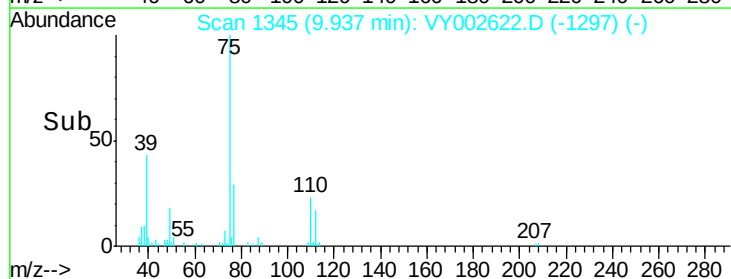
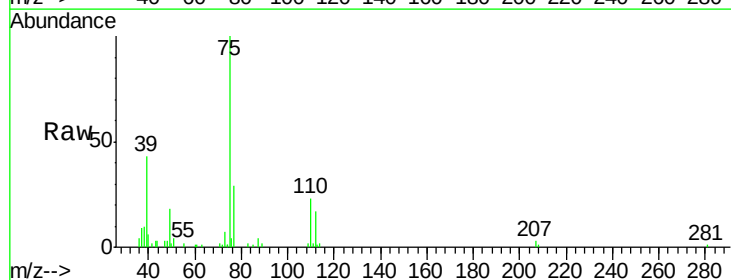
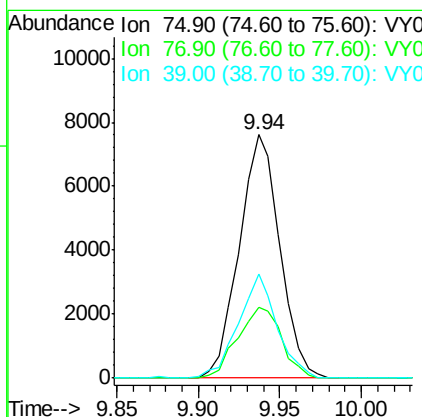
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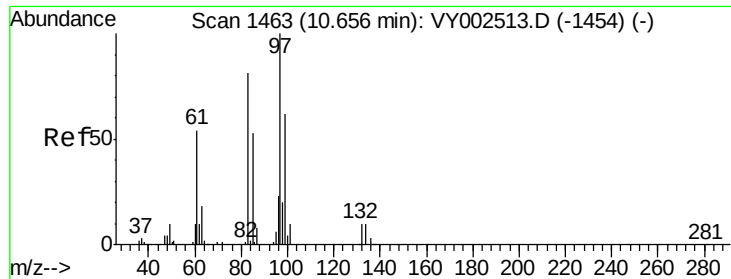
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 2.468 ug/l
RT: 9.94 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.1	37.7
39	42.6	32.7	49.1





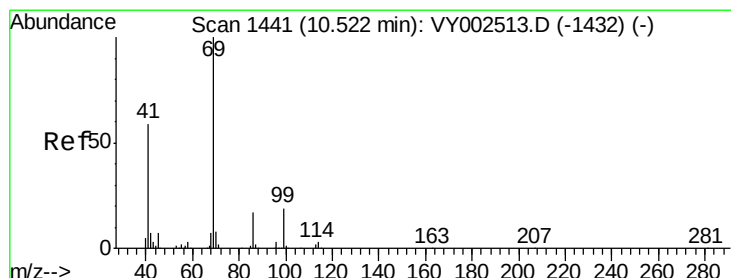
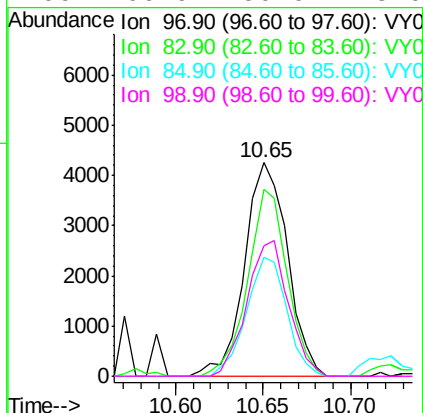
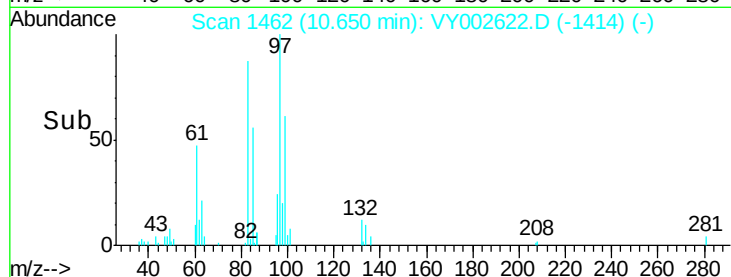
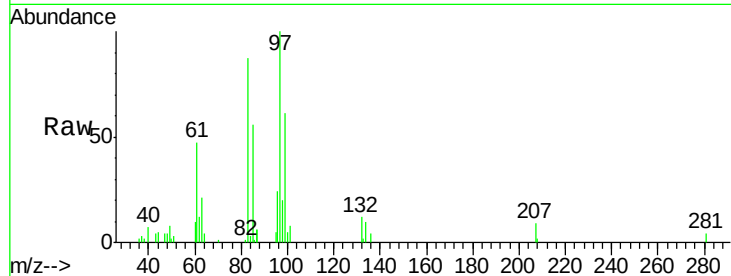
#55
 1,1,2-Trichloroethane
 Concen: 2.748 ug/l
 RT: 10.65 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion:	97	Resp:	7243
Ion	Ratio	Lower	Upper
97	100		
83	87.4	65.1	97.7
85	55.5	42.7	64.1
99	60.9	50.0	75.0

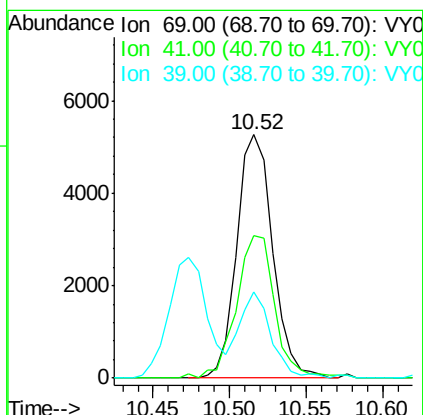
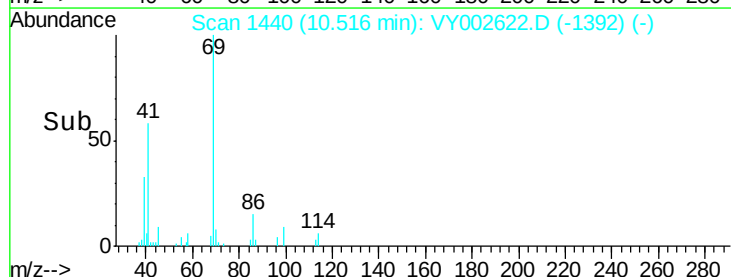
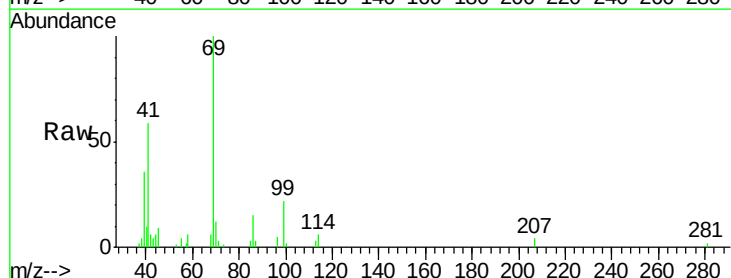
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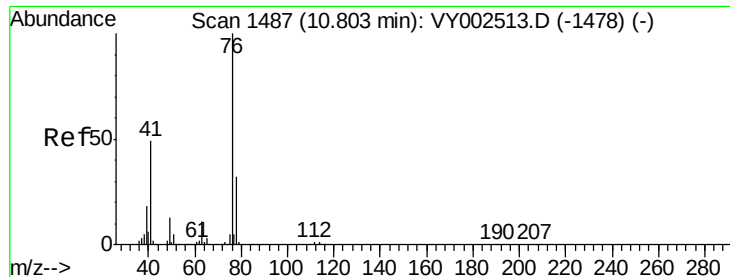
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#56
 Ethyl methacrylate
 Concen: 2.447 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion:	69	Resp:	8581
Ion	Ratio	Lower	Upper
69	100		
41	62.9	48.6	73.0
39	31.5	25.0	37.4





#57

1,3-Dichloropropane

Concen: 2.749 ug/l

RT: 10.80 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 76 Resp: 12291

Ion Ratio Lower Upper

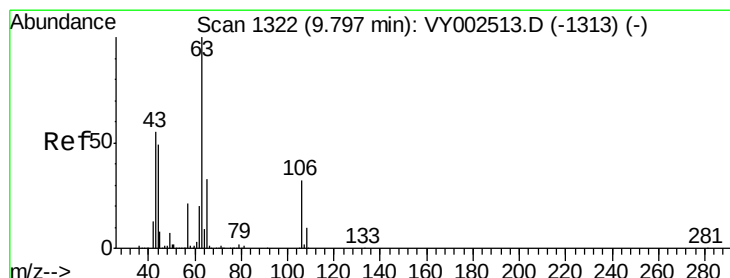
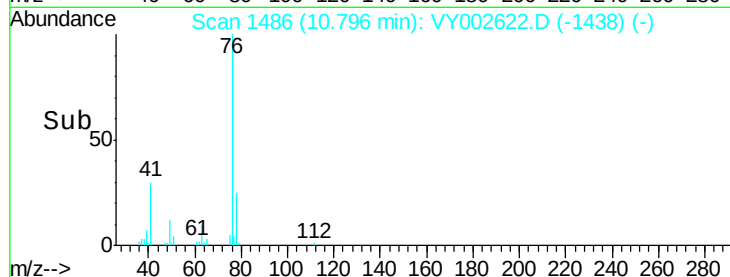
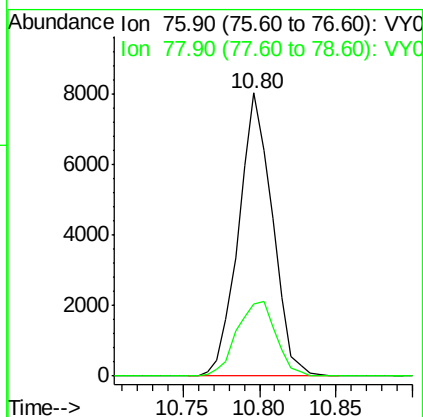
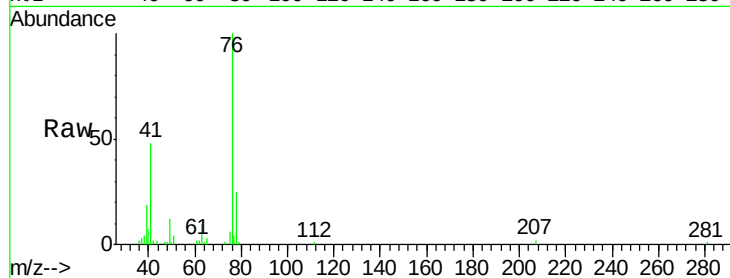
76 100

78 30.6 25.4 38.2

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#58

2-Chloroethyl Vinyl ether

Concen: 12.955 ug/l

RT: 9.79 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VY002622.D

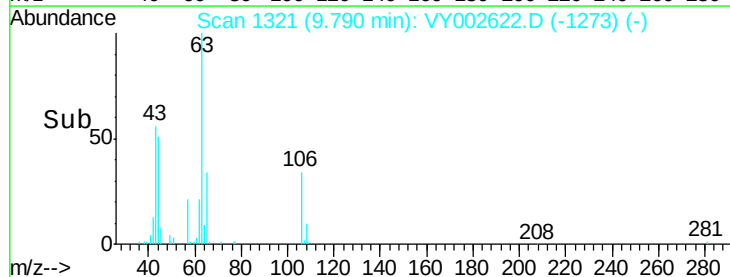
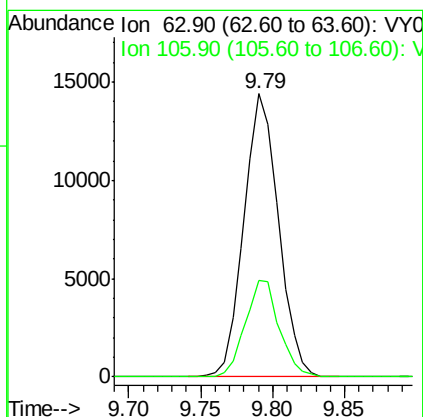
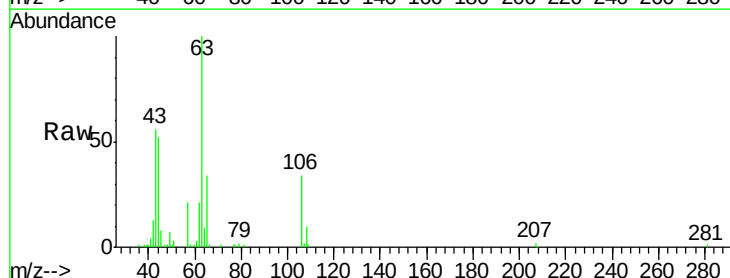
Acq: 07 May 2020 11:46

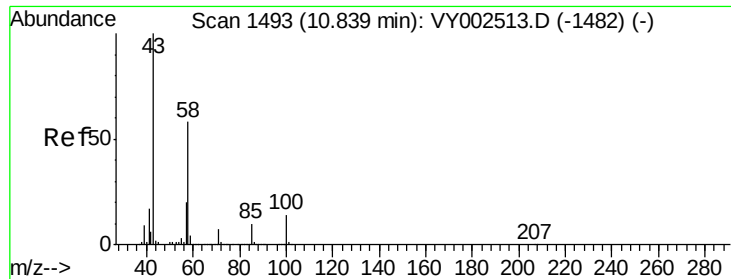
Tgt Ion: 63 Resp: 23957

Ion Ratio Lower Upper

63 100

106 33.4 25.2 37.8





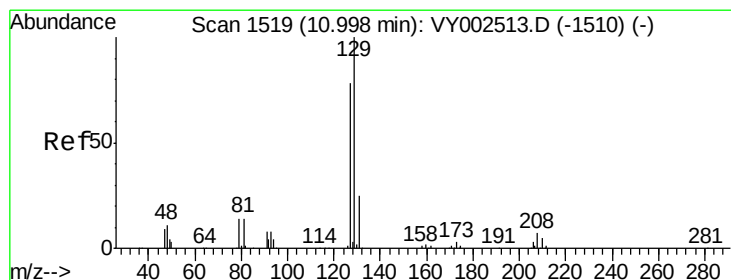
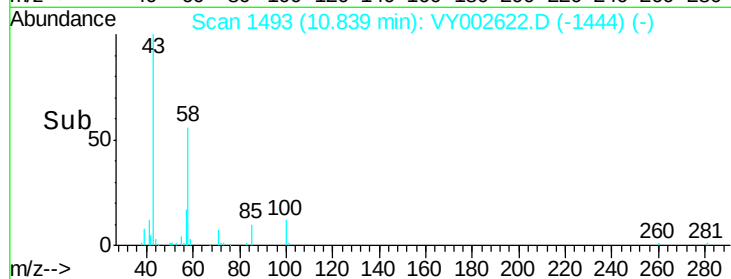
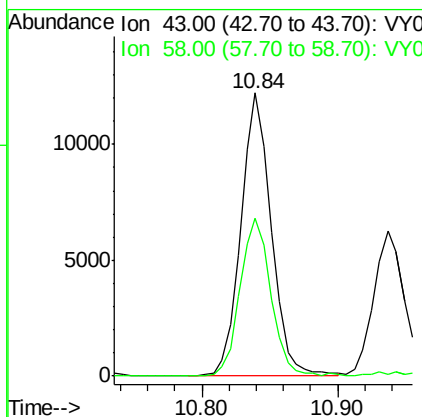
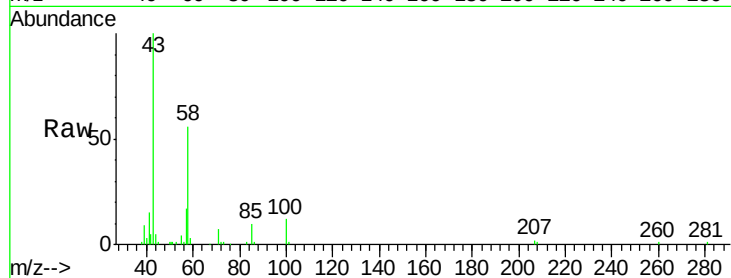
#59
2-Hexanone
Concen: 12.400 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.2	29.1	87.3

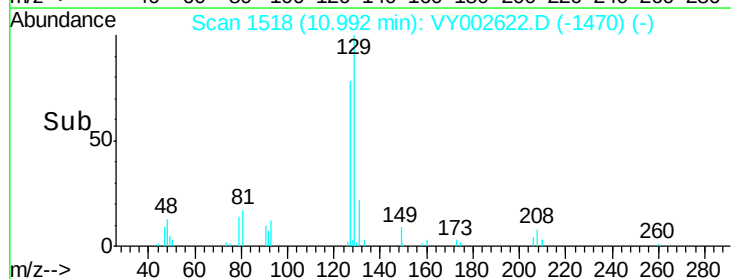
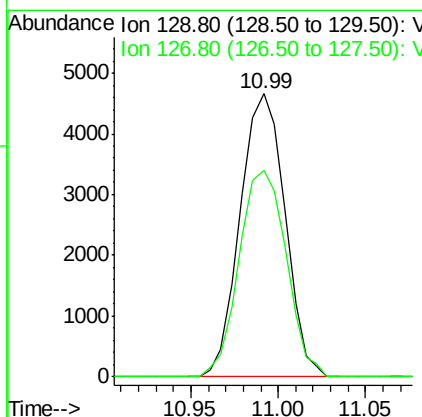
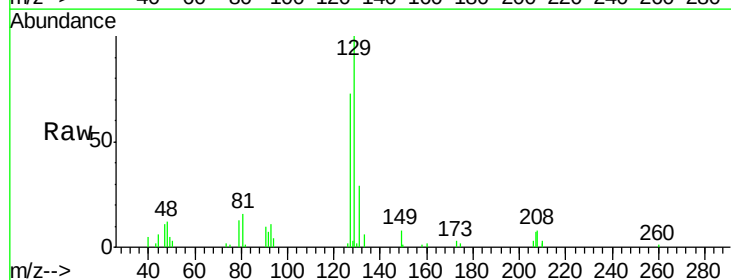
Manual Integrations
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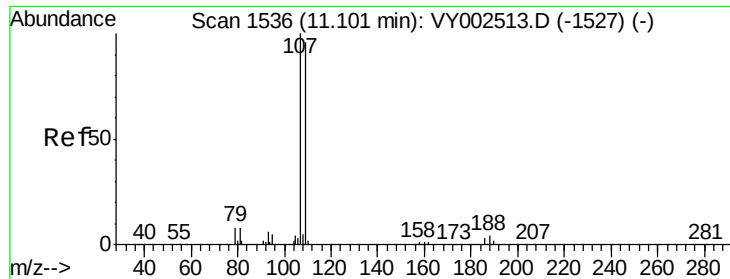
MMDadoda
5/8/2020 1:23:47 PM



#60
Dibromochloromethane
Concen: 2.478 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	117.0





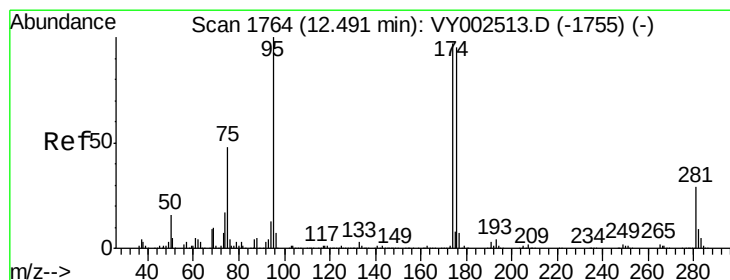
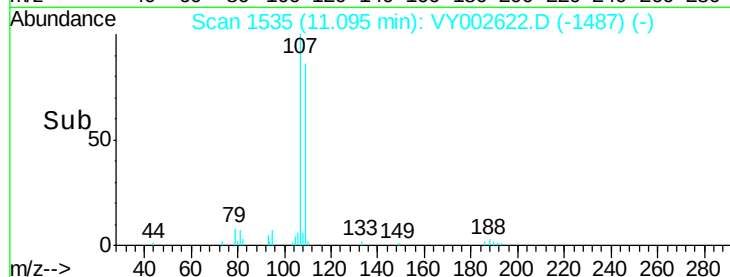
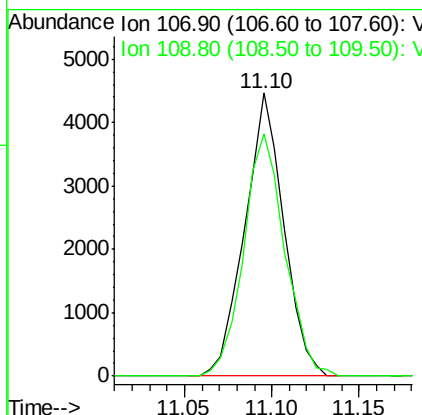
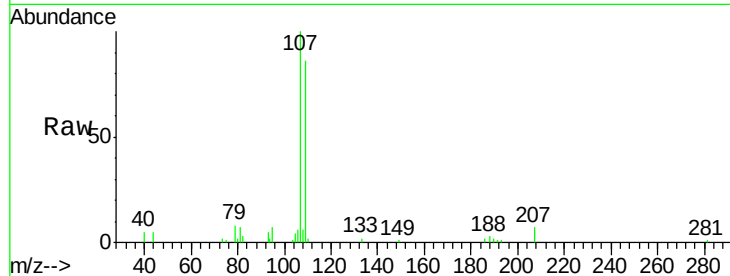
#61
 1,2-Dibromoethane
 Concen: 2.646 ug/l
 RT: 11.10 min Scan# 1535
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.3	75.8	113.8

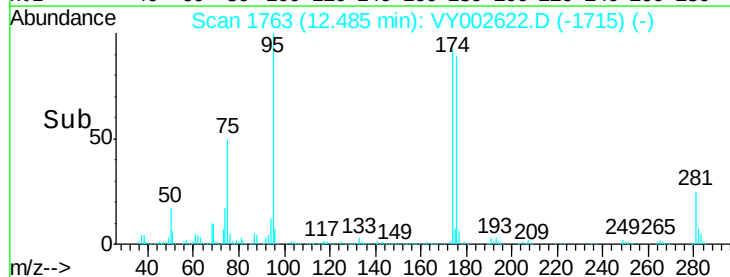
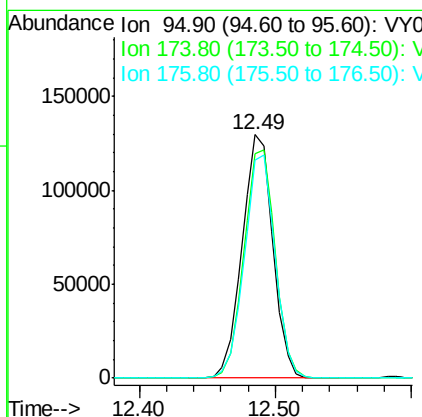
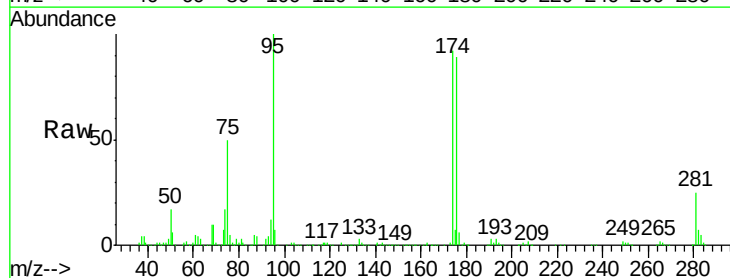
Manual Integrations
 APPROVED

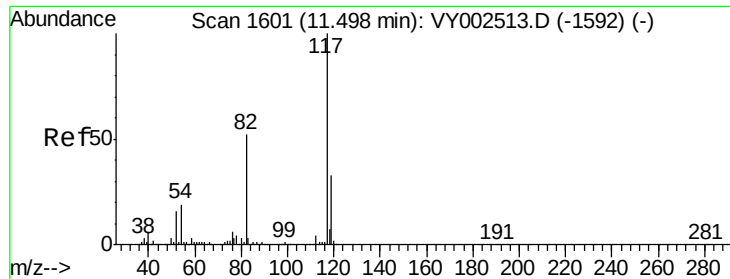
MMDadoda
 5/8/2020 1:23:47 PM



#62
 4-Bromofluorobenzene
 Concen: 50.184 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.4	0.0	188.8
176	91.8	0.0	183.2





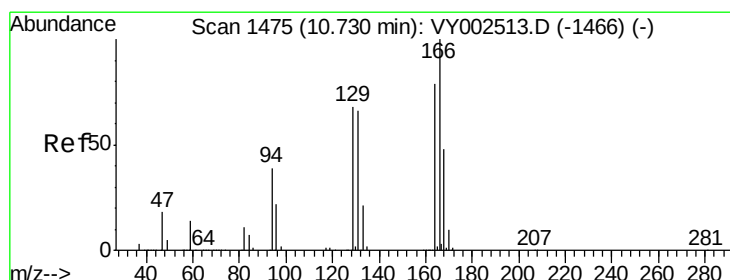
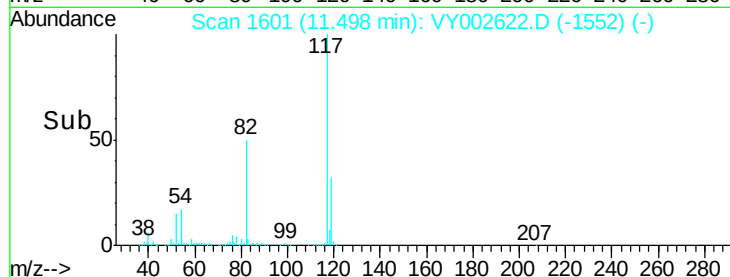
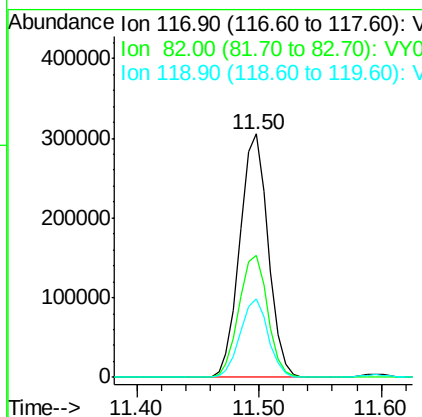
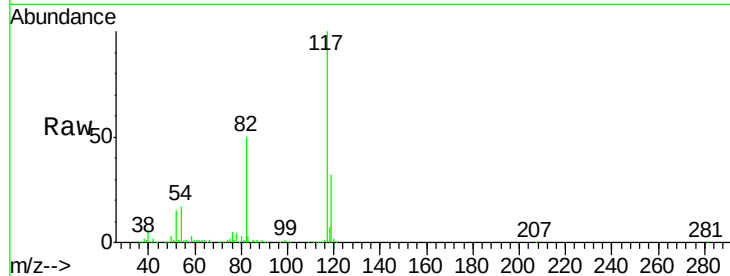
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	489585		
82	50.2		41.3	61.9
119	32.1		26.0	39.0

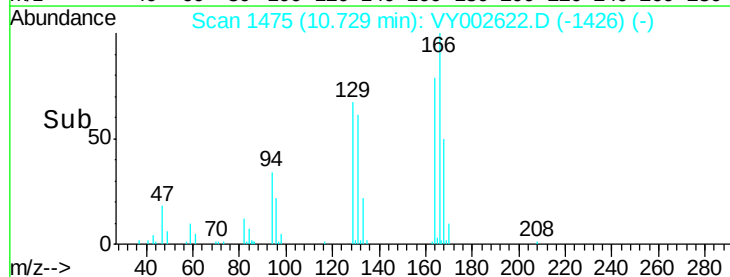
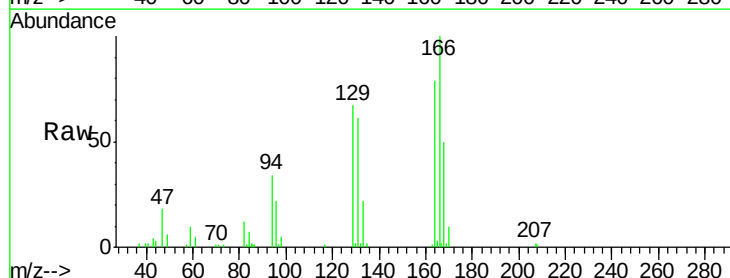
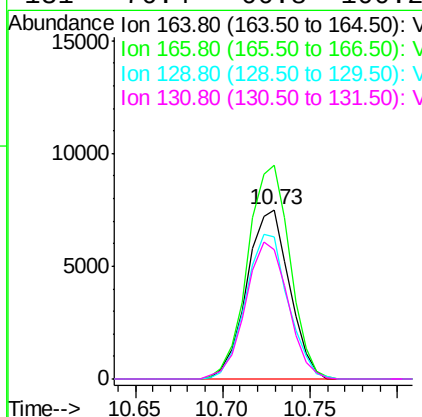
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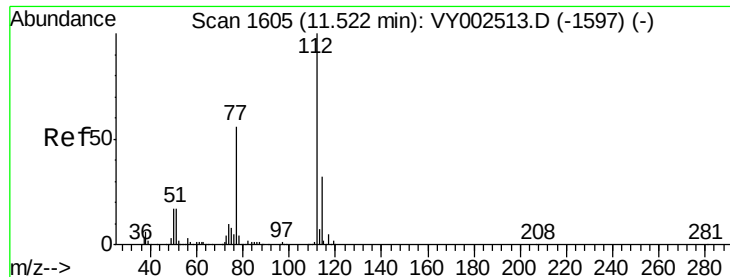
MMDadoda
5/8/2020 1:23:47 PM



#64
Tetrachloroethene
Concen: 2.922 ug/l
RT: 10.73 min Scan# 1475
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	12711		
166	126.2		100.7	151.1
129	84.3		68.3	102.5
131	76.4		66.8	100.2





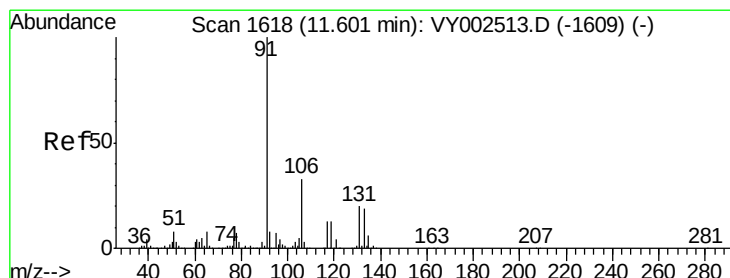
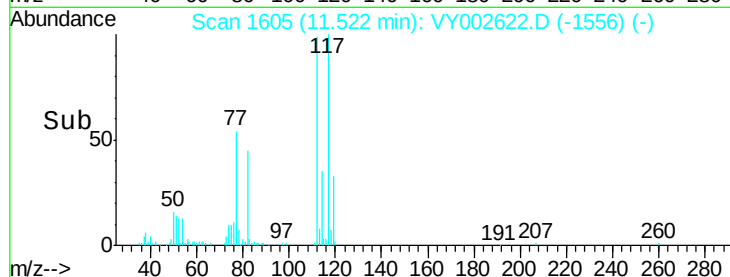
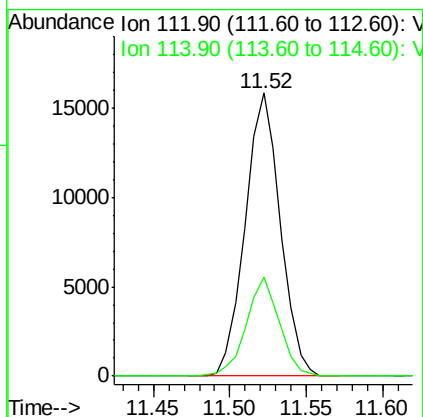
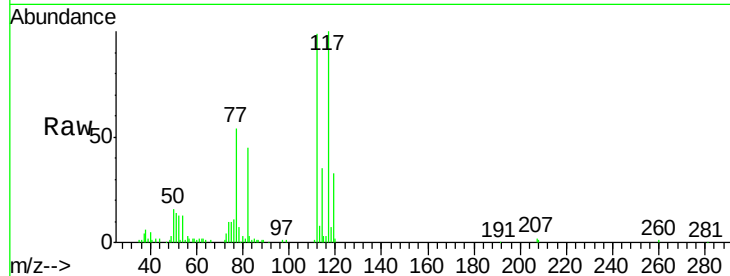
#65
Chlorobenzene
Concen: 2.714 ug/l
RT: 11.52 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:112 Resp: 25263
Ion Ratio Lower Upper
112 100
114 34.9 25.8 38.6

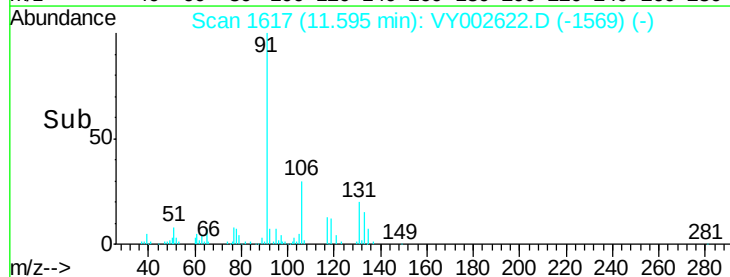
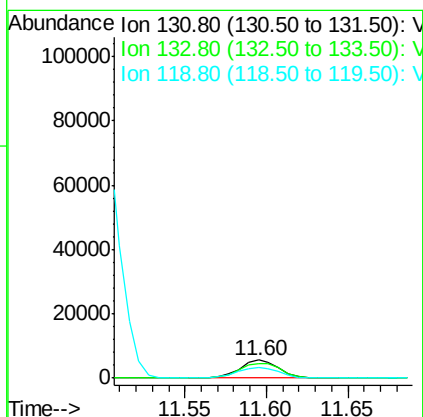
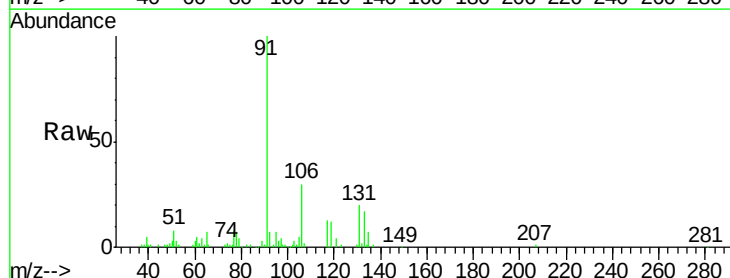
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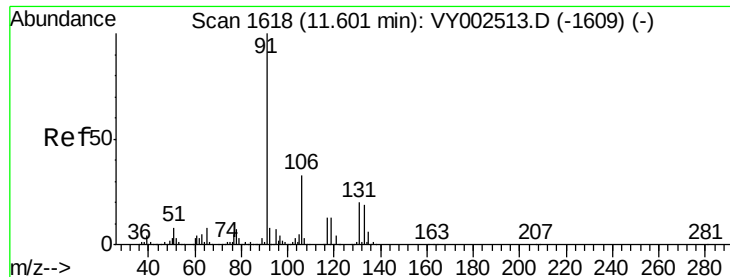
MMDadoda
5/8/2020 1:23:47 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.643 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion:131 Resp: 9131
Ion Ratio Lower Upper
131 100
133 92.1 48.1 144.4
119 62.2 31.6 95.0





#67

Ethyl Benzene

Concen: 2.615 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 42747

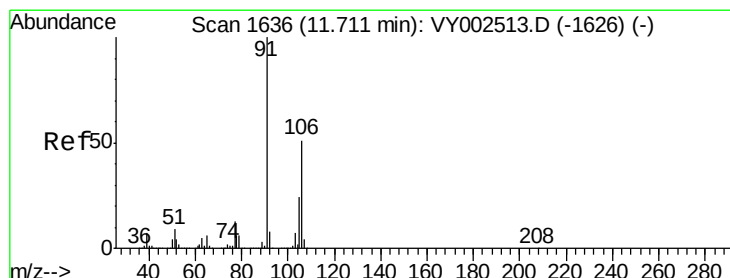
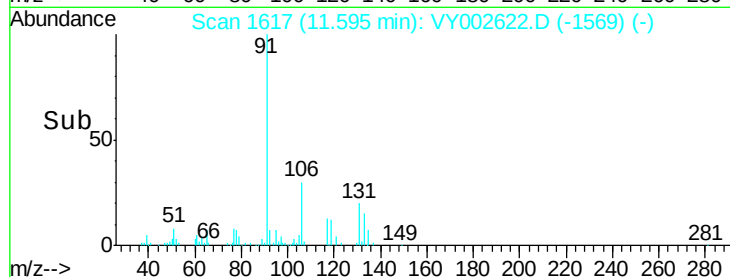
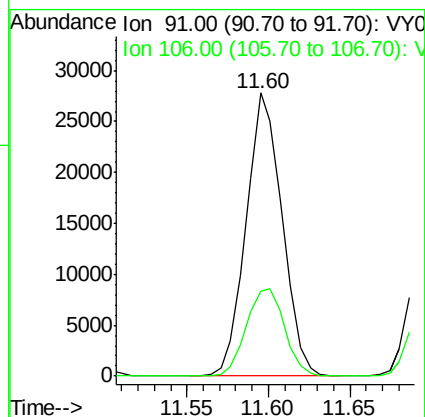
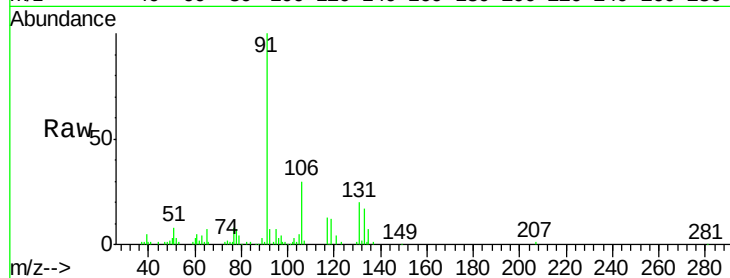
Ion Ratio Lower Upper

91 100

106 30.0 26.1 39.1

Manual Integrations
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#68

m/p-Xylenes

Concen: 5.335 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY002622.D

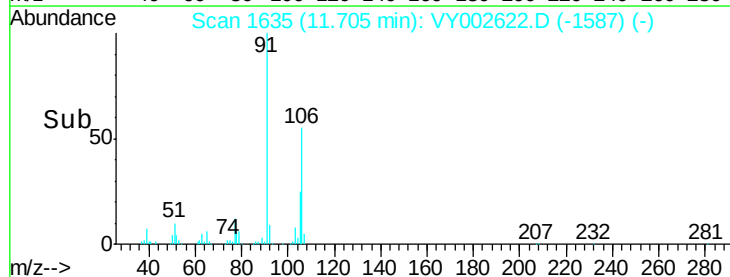
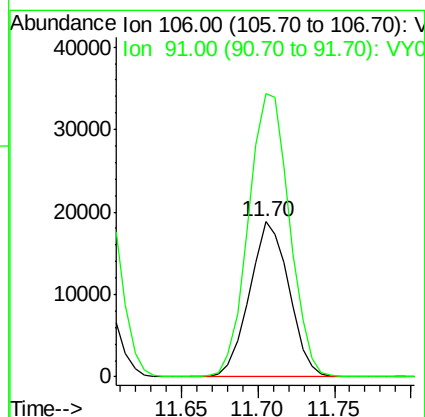
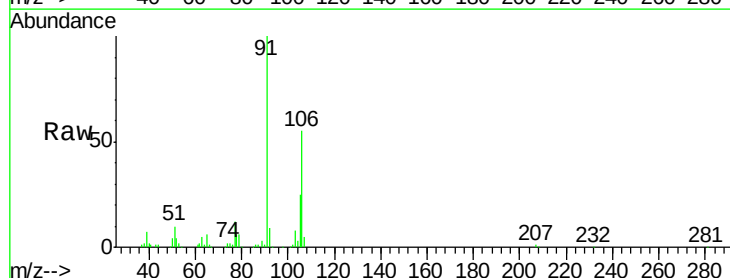
Acq: 07 May 2020 11:46

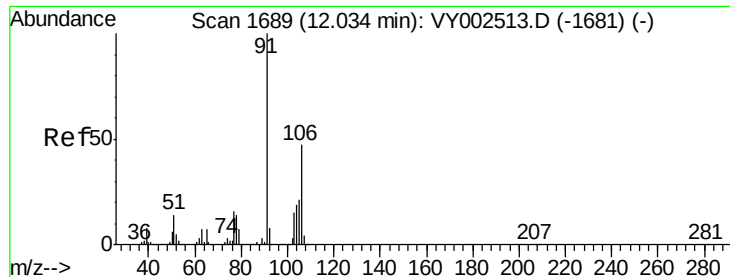
Tgt Ion: 106 Resp: 33744

Ion Ratio Lower Upper

106 100

91 190.1 155.2 232.8





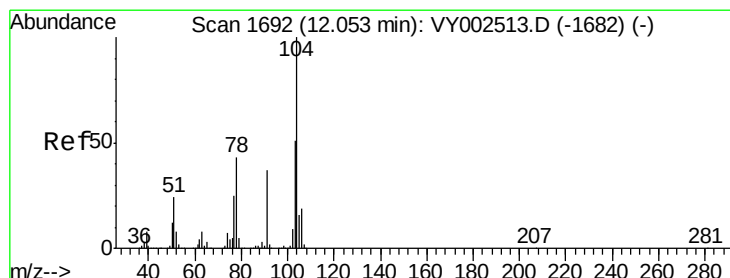
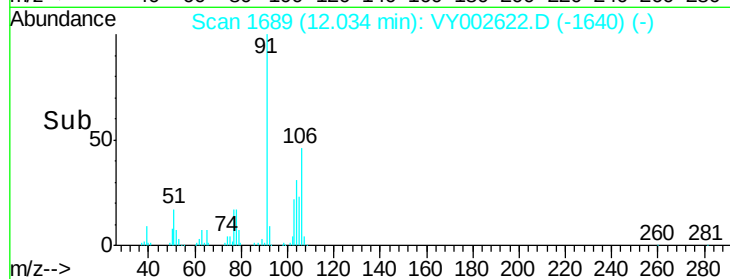
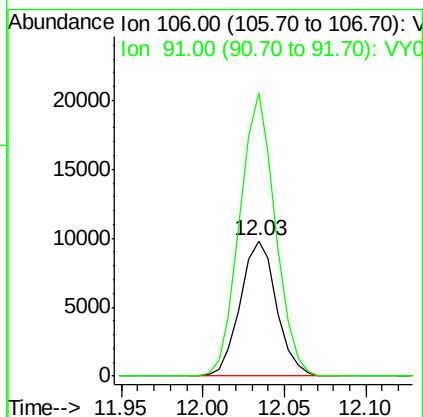
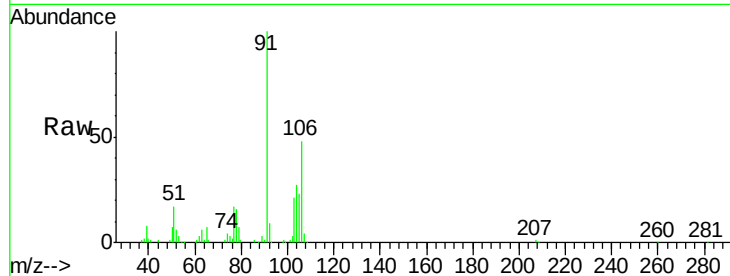
#69
o-Xylene
Concen: 2.569 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	204.9	103.8	311.3

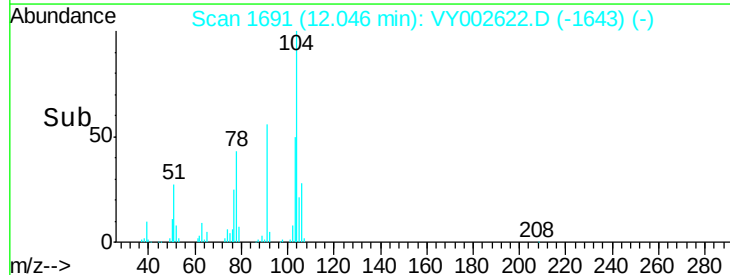
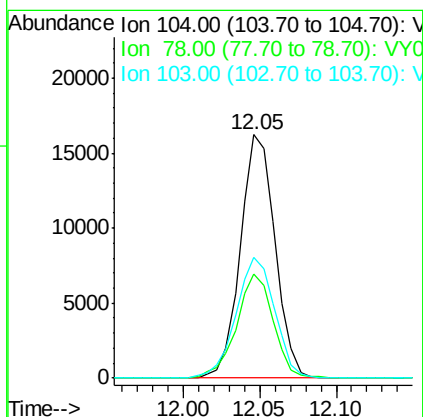
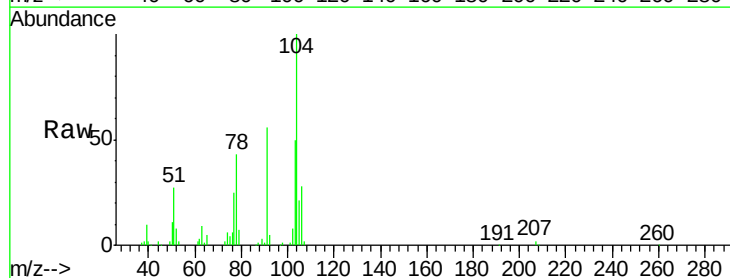
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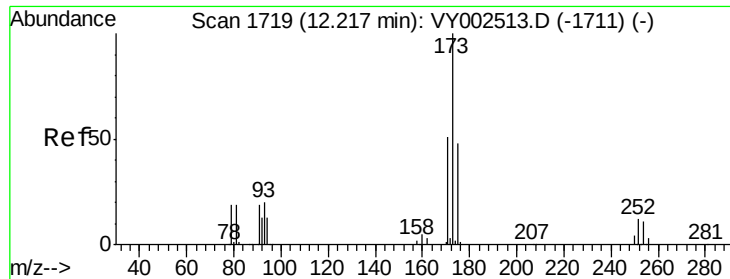
MMDadoda
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#70
Styrene
Concen: 2.525 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	45.3	37.4	56.0
103	103	55.5	43.9	65.9





#71

Bromoform

Concen: 2.523 ug/l

RT: 12.21 min Scan# 1718

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

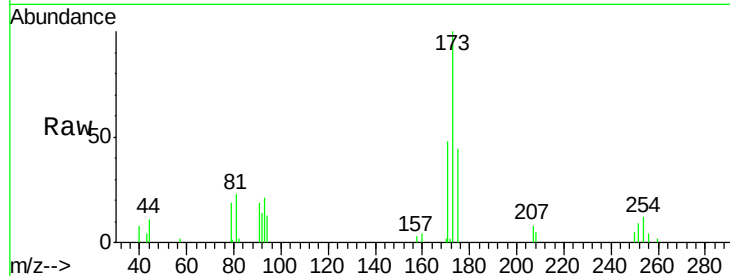
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

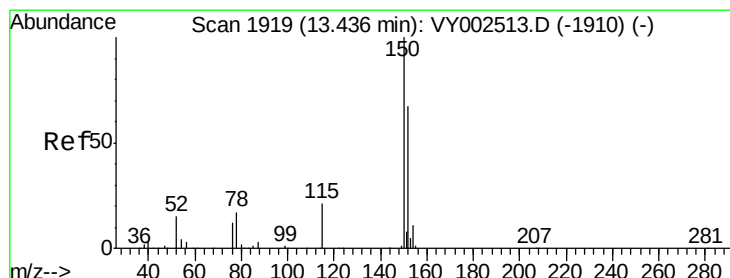
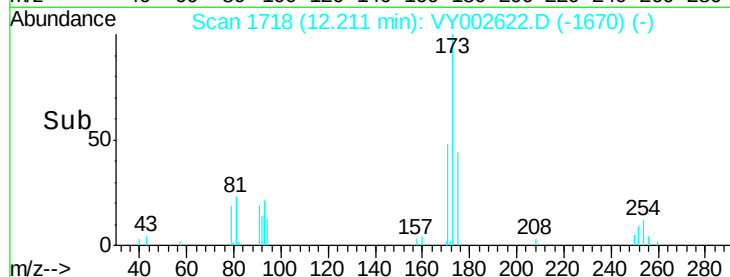
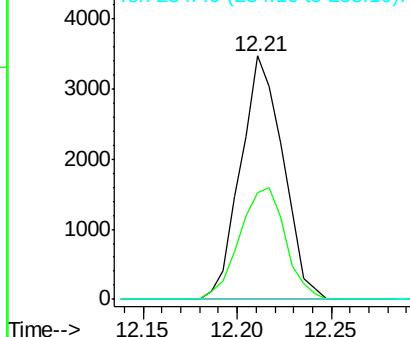
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	72.8
254	0.0	0.2	0.2

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

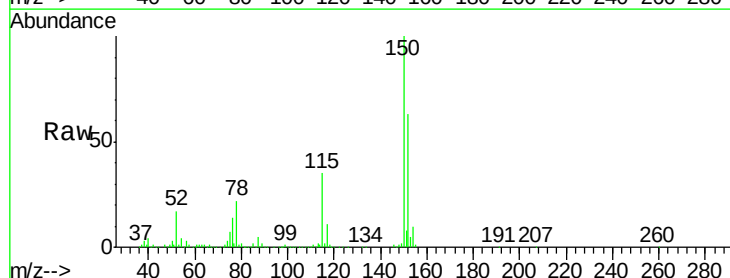
RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

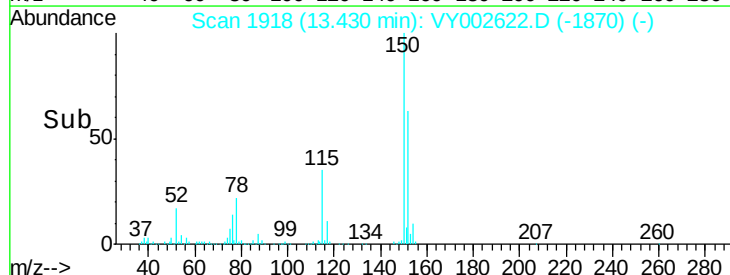
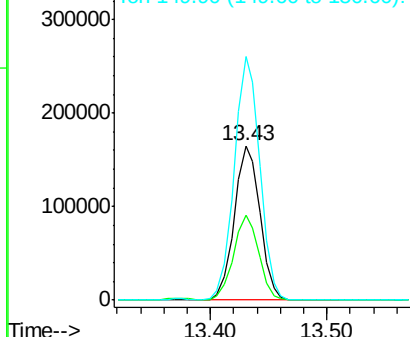
Lab File: VY002622.D

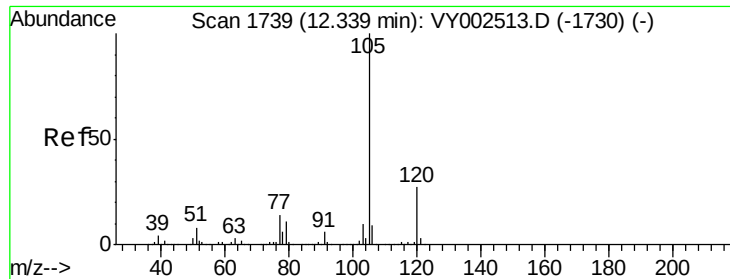
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.5	82.4
150	157.5	0.0	346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





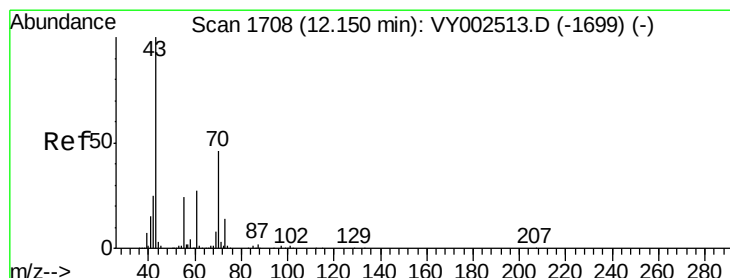
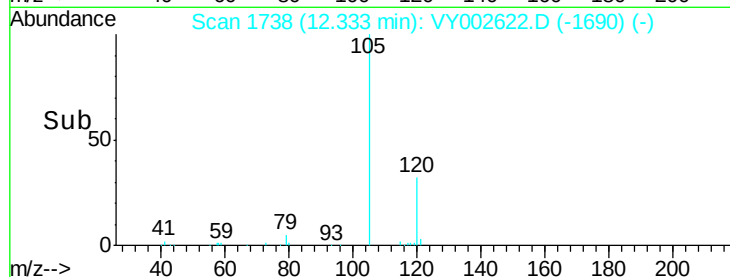
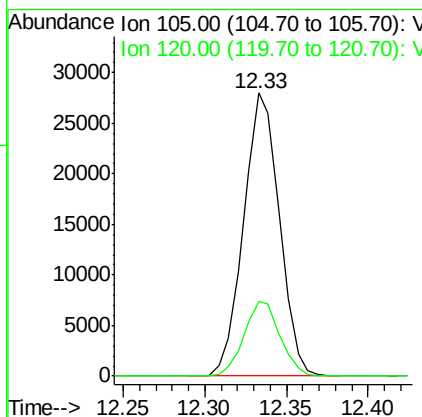
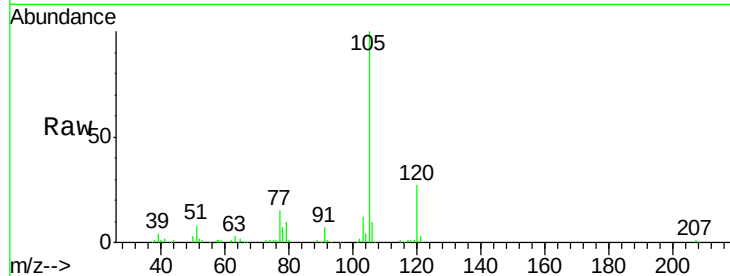
#73
Isopropylbenzene
Concen: 2.623 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
105	100	42855		
120	26.7		13.8	41.3

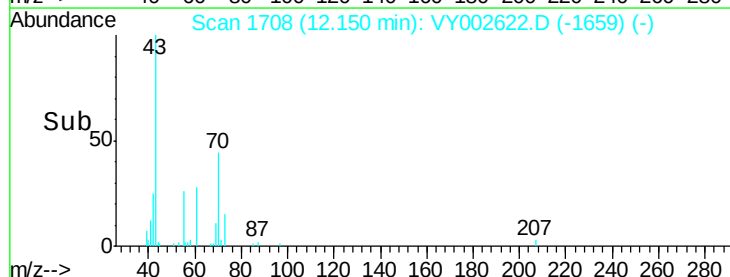
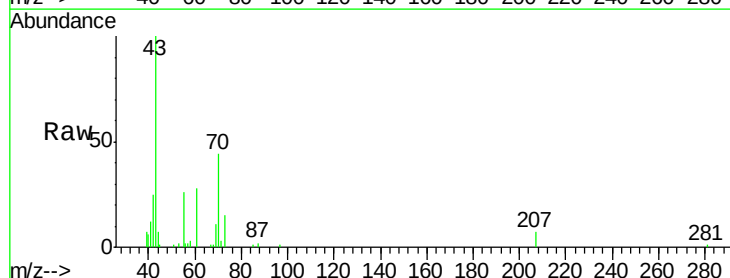
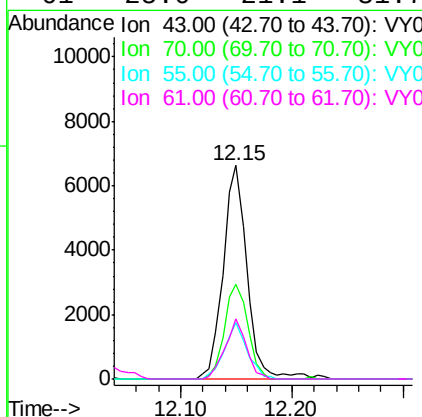
Manual Integrations
APPROVED

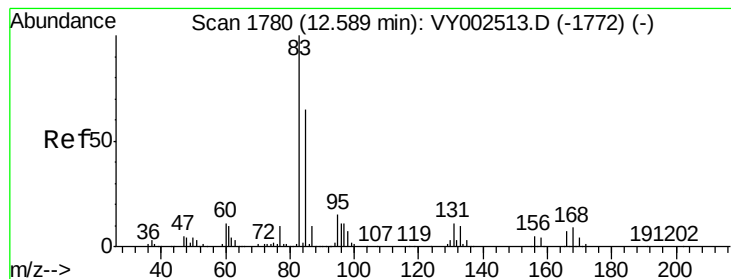
MMDadoda
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#74
N-ethyl acetate
Concen: 2.509 ug/l
RT: 12.15 min Scan# 1708
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	9861		
70	43.3		36.7	55.1
55	25.1		19.2	28.8
61	25.0		21.1	31.7





#75

1,1,2,2-Tetrachloroethane

Concen: 2.480 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

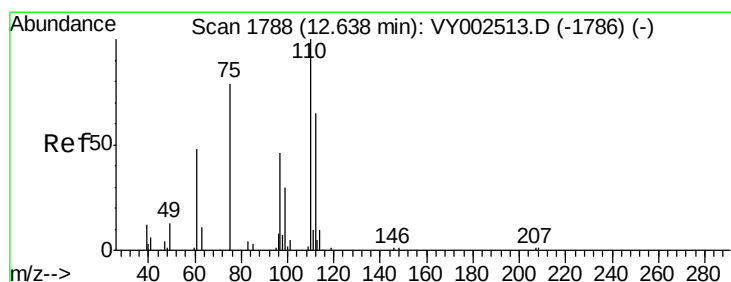
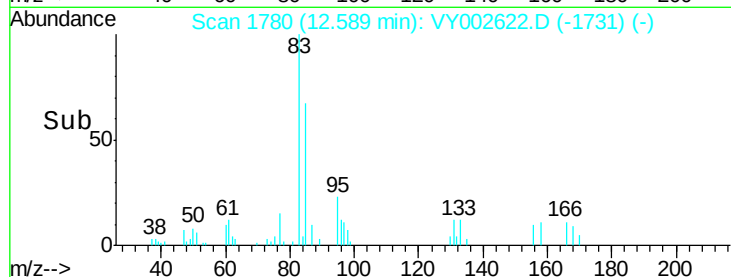
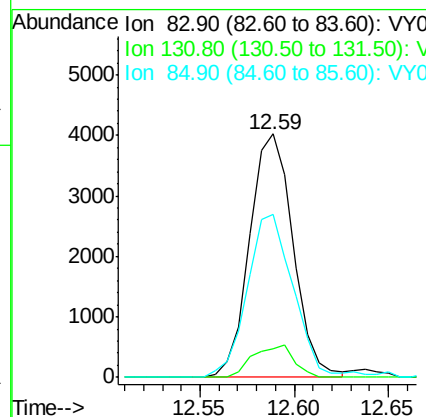
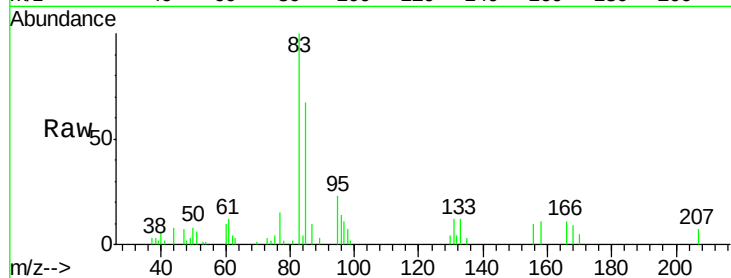
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	83	Resp:	6444
Ion	Ratio	Lower	Upper
83	100		
131	12.3	5.9	17.8
85	72.0	31.9	95.9

Manual Integrations
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5/8/2020 1:23:47 PM



#76

1,2,3-Trichloropropane

Concen: 2.508 ug/l m

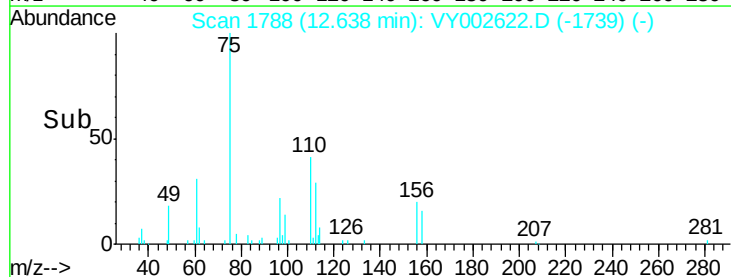
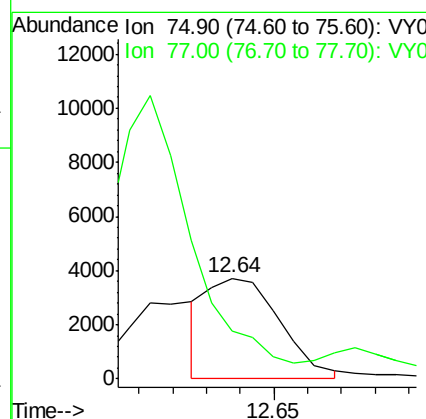
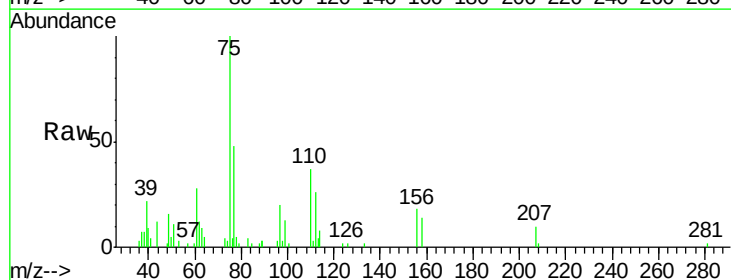
RT: 12.64 min Scan# 1788

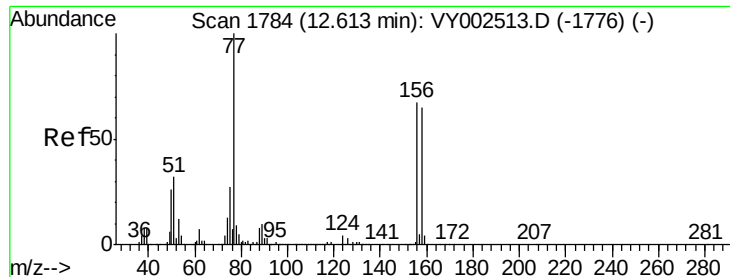
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	75	Resp:	5620
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.654 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

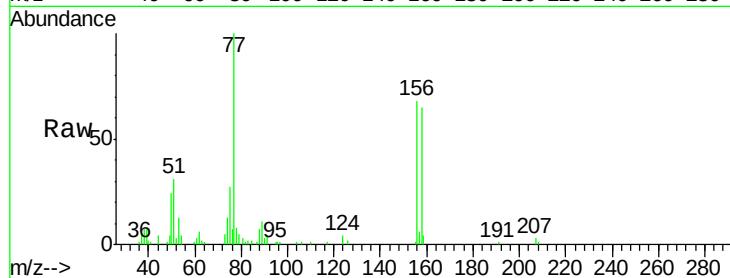
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
156	100		
77	167.4	82.0	245.8
158	96.1	48.5	145.6

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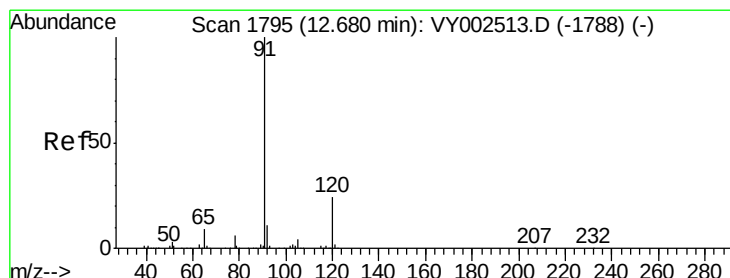
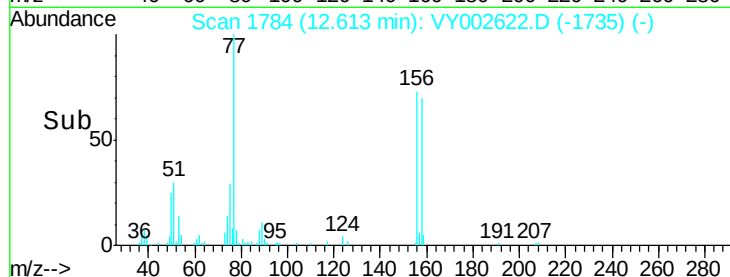
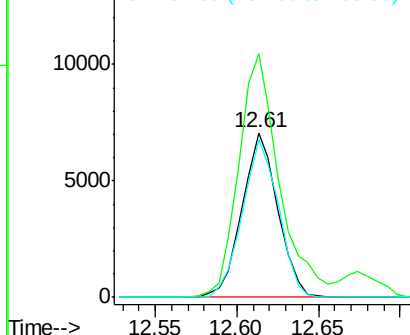
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.654 ug/l

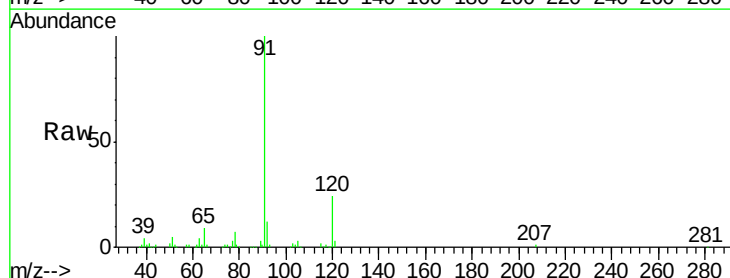
RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY002622.D

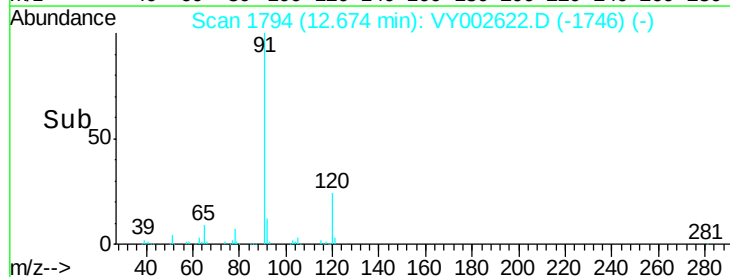
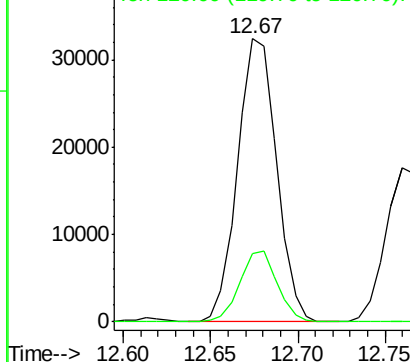
Acq: 07 May 2020 11:46

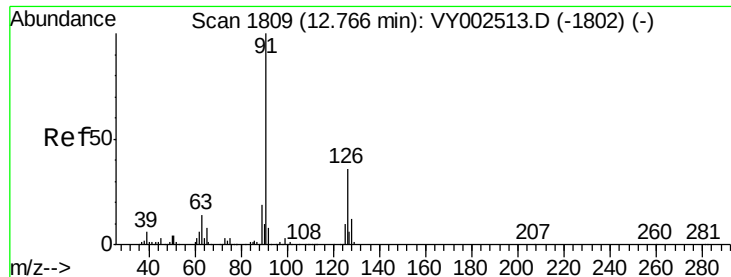
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	12.2	36.4



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.653 ug/l

RT: 12.76 min Scan# 1808

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 27864

Ion Ratio Lower Upper

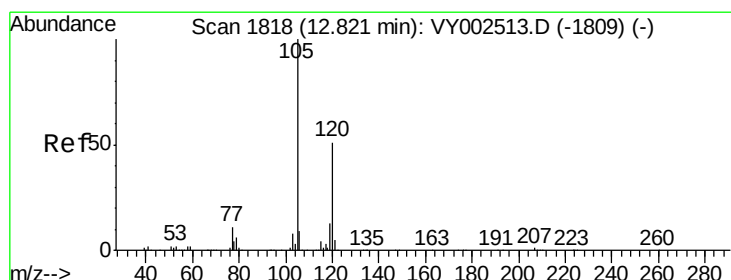
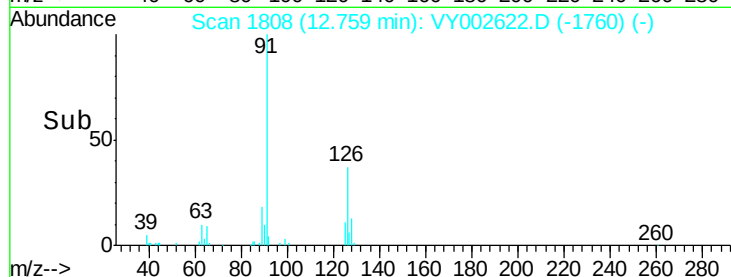
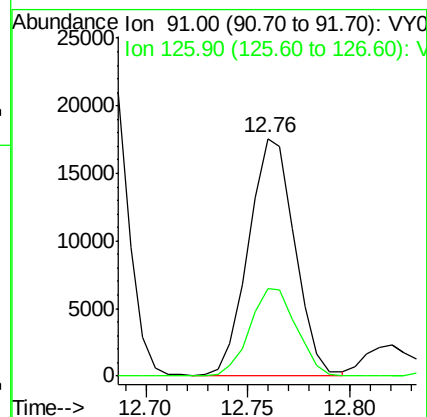
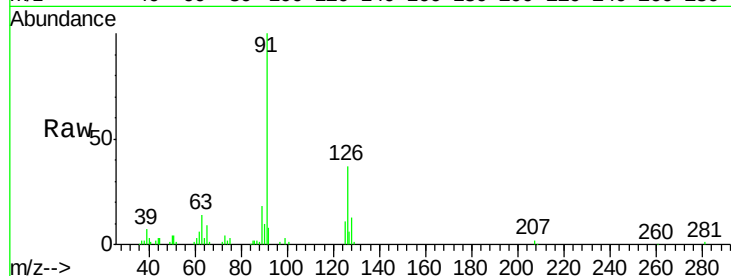
91 100

126 36.8 18.4 55.2

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#80

1,3,5-Trimethylbenzene

Concen: 2.557 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY002622.D

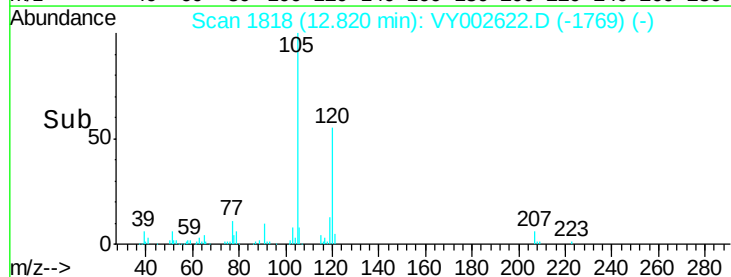
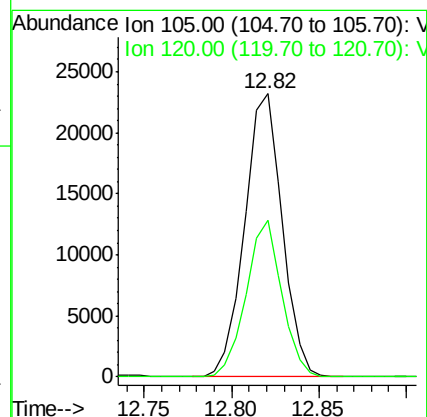
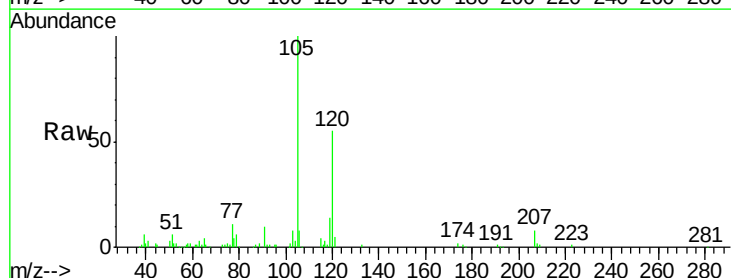
Acq: 07 May 2020 11:46

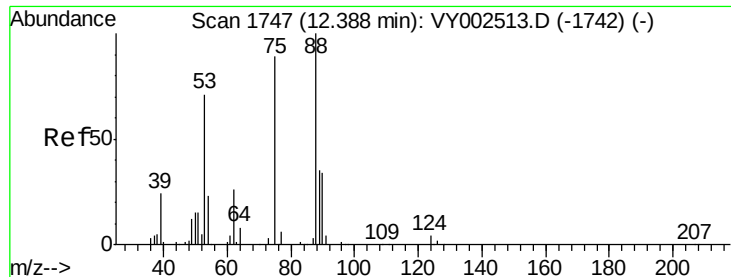
Tgt Ion: 105 Resp: 34640

Ion Ratio Lower Upper

105 100

120 52.4 25.3 75.9





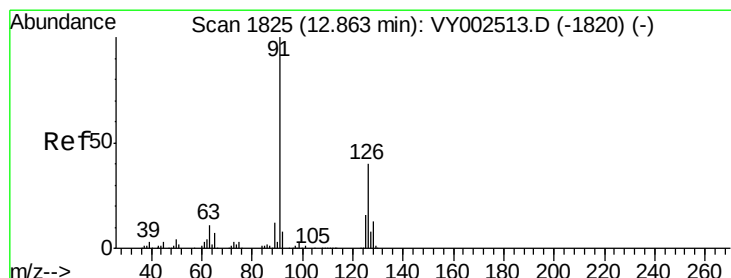
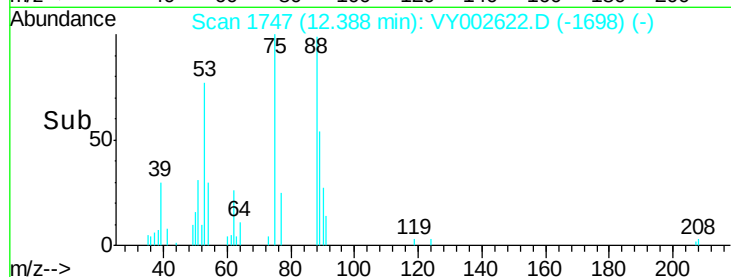
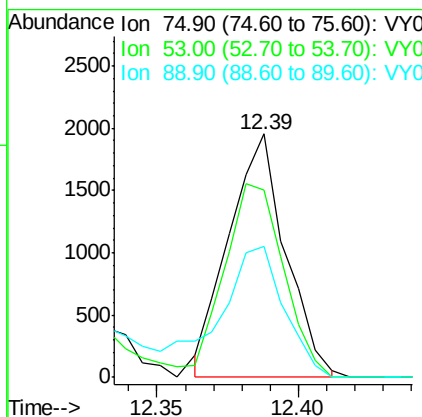
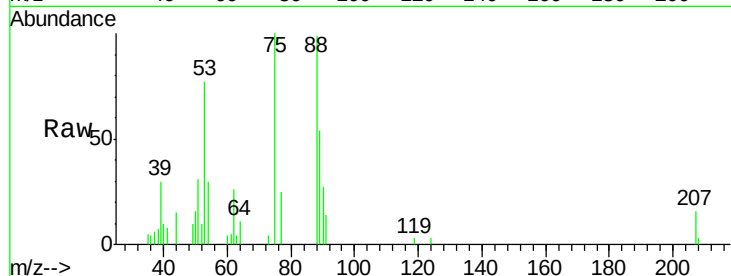
#81
trans-1,4-Dichloro-2-butene
Concen: 2.437 ug/l m
RT: 12.39 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.4	101.0#
89	11.4	37.4	56.0#

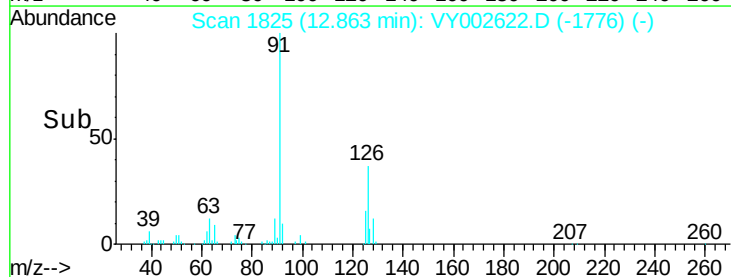
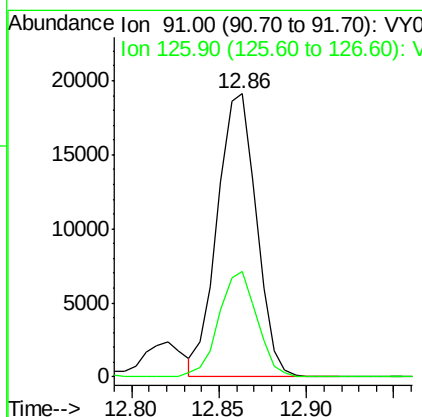
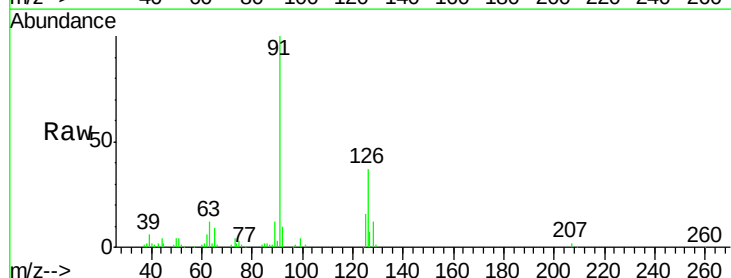
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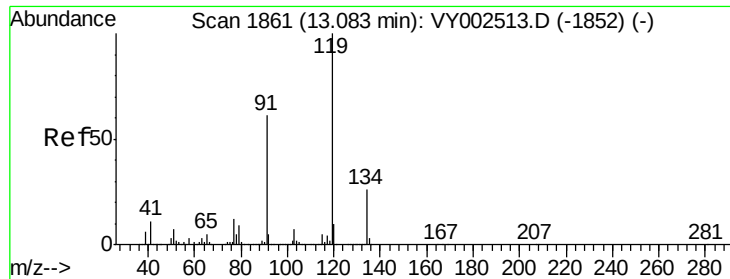
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#82
4-Chlorotoluene
Concen: 2.696 ug/l
RT: 12.86 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.5	55.5





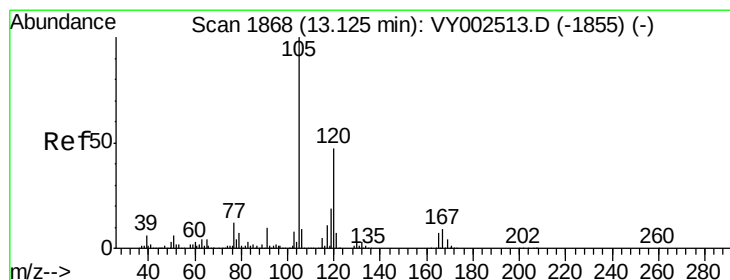
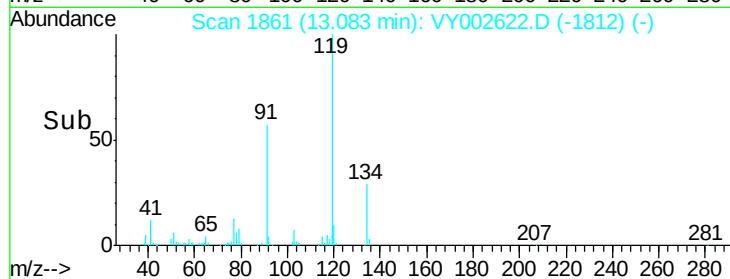
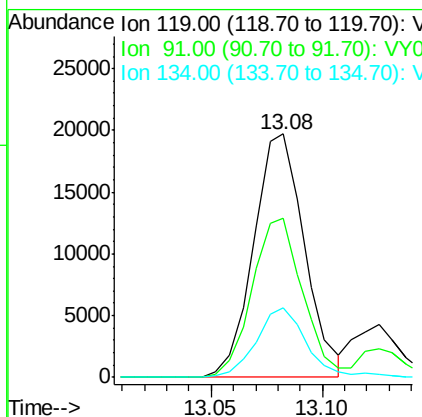
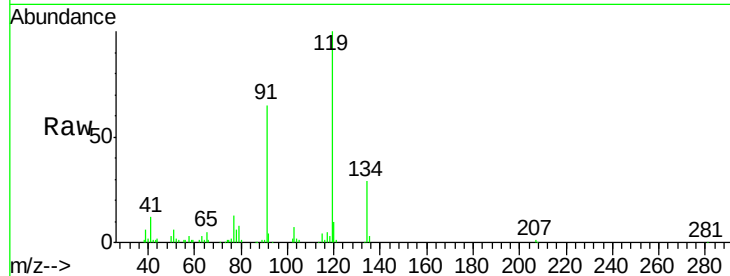
#83
 tert-Butylbenzene
 Concen: 2.633 ug/l
 RT: 13.08 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleID :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.7	30.6	91.6
134	28.3	13.5	40.4

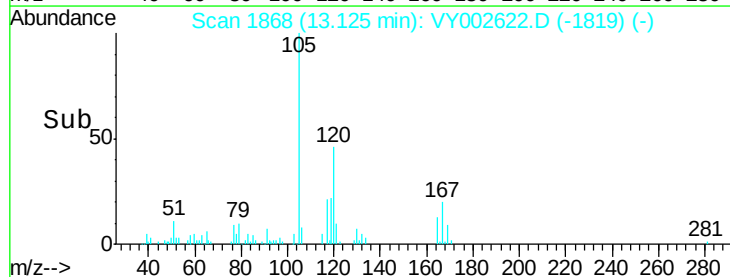
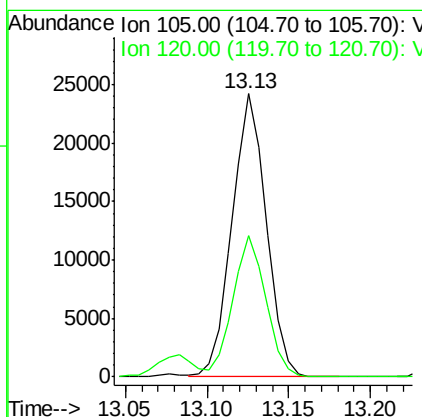
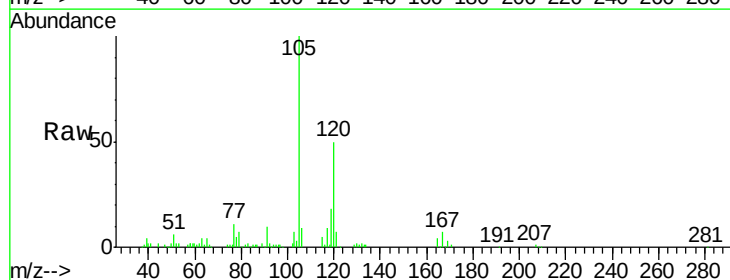
Manual Integrations
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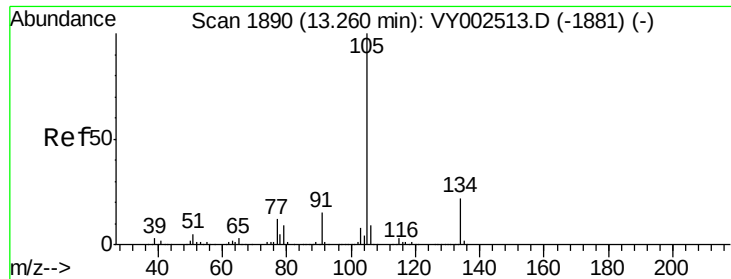
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.627 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.4	70.3





#85

sec-Butylbenzene

Concen: 2.684 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 44240

Ion Ratio Lower Upper

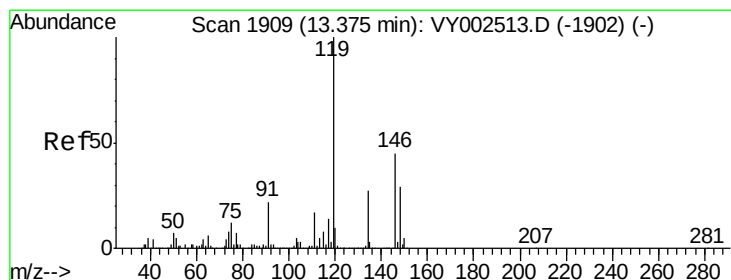
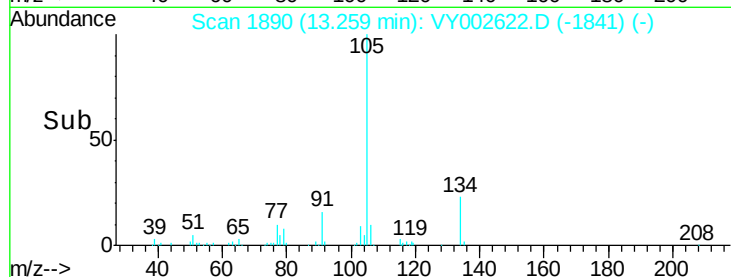
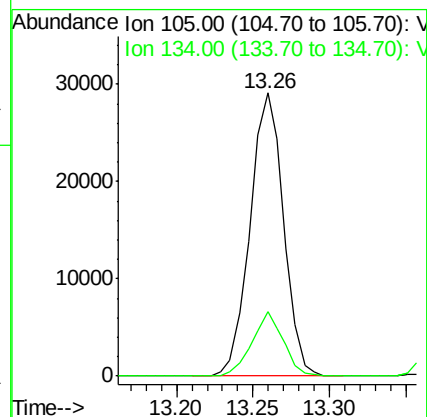
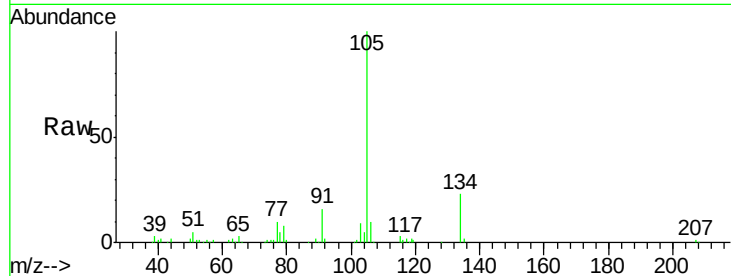
105 100

134 21.1 10.8 32.3

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#86

p-Isopropyltoluene

Concen: 2.688 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

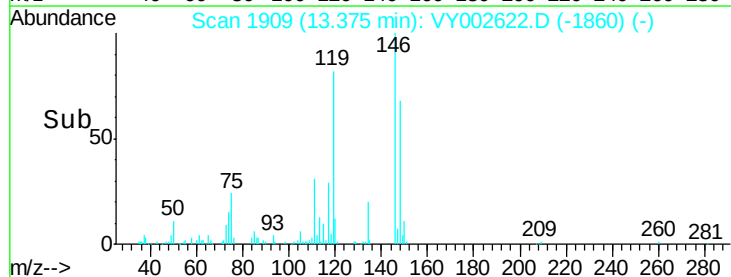
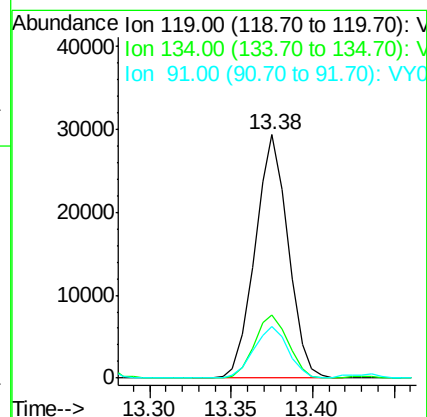
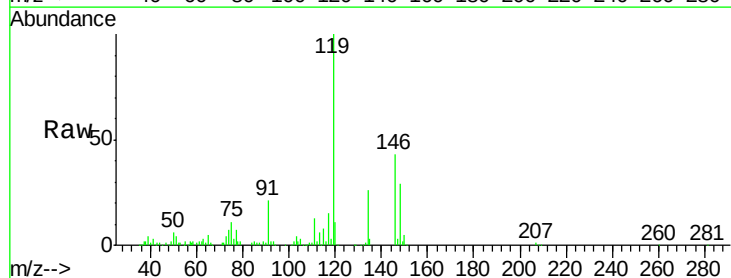
Tgt Ion:119 Resp: 41515

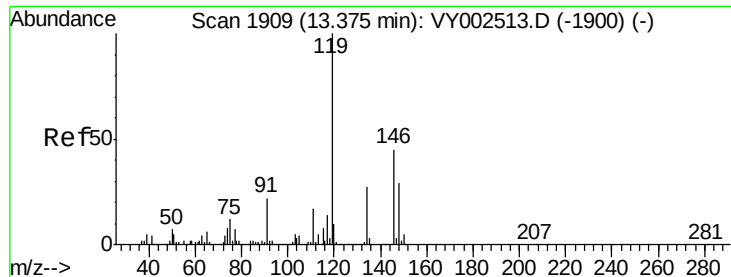
Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.5

91 22.2 10.9 32.9





#87

1,3-Dichlorobenzene

Concen: 2.815 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Instrument :

MSVOA_Y

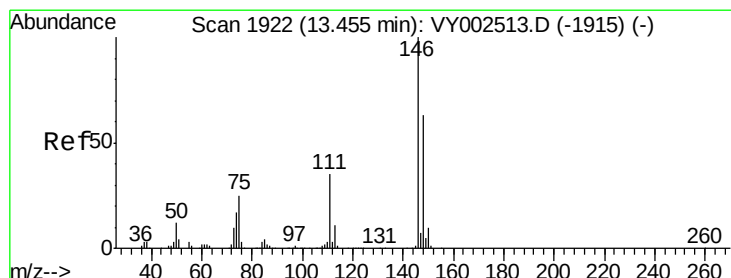
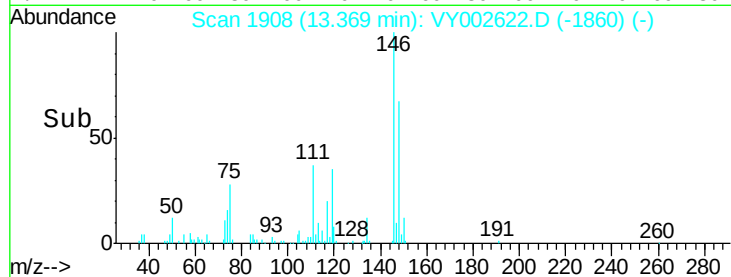
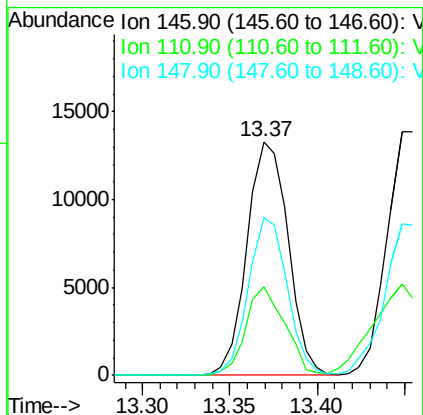
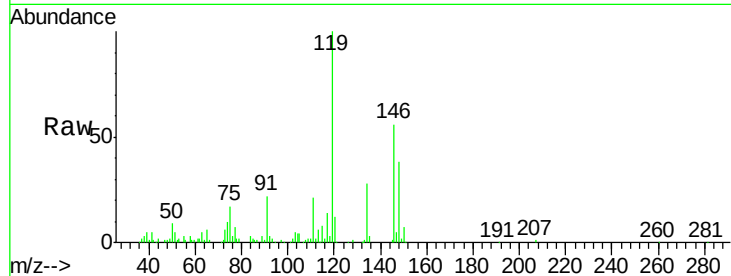
ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion:	146	Resp:	21749
Ion Ratio	Lower	Upper	
146	100		
111	36.1	18.8	56.3
148	64.0	32.1	96.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 2.860 ug/l

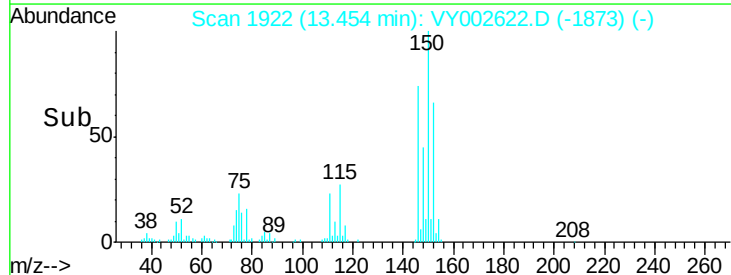
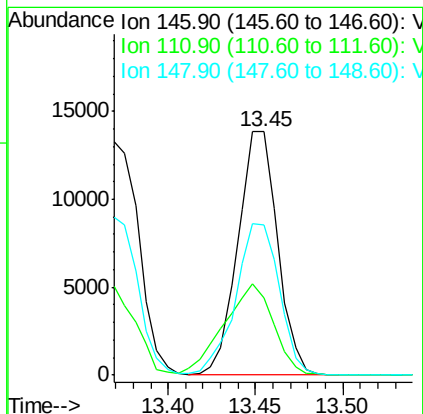
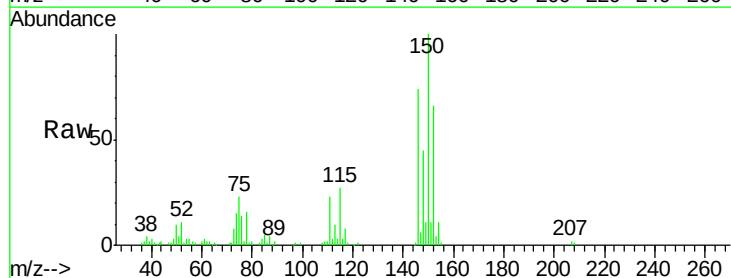
RT: 13.45 min Scan# 1922

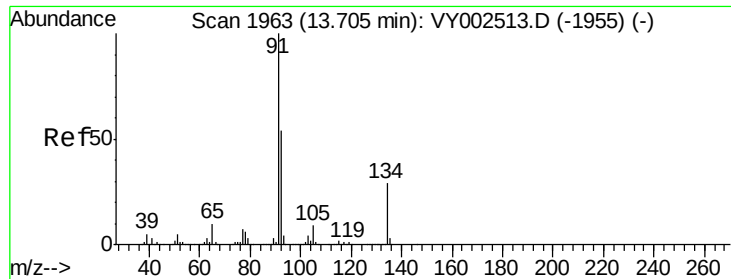
Delta R.T. -0.00 min

Lab File: VY002622.D

Acq: 07 May 2020 11:46

Tgt Ion:	146	Resp:	21884
Ion Ratio	Lower	Upper	
146	100		
111	46.8	18.1	54.1
148	68.8	31.9	95.5





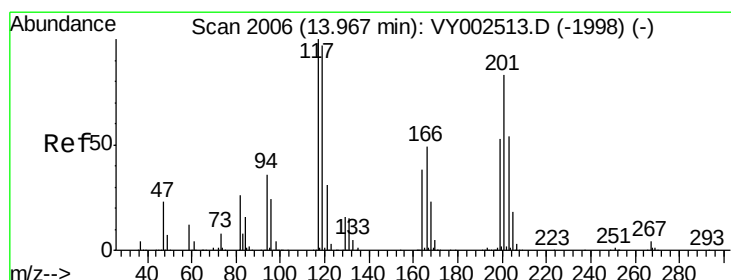
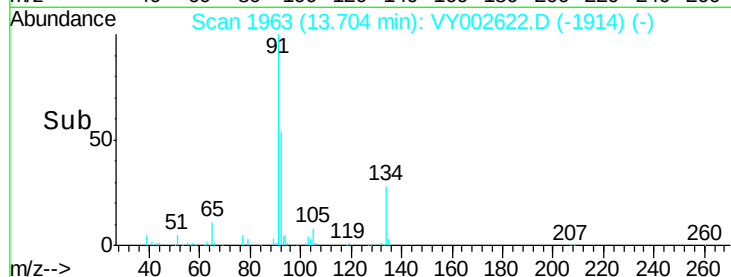
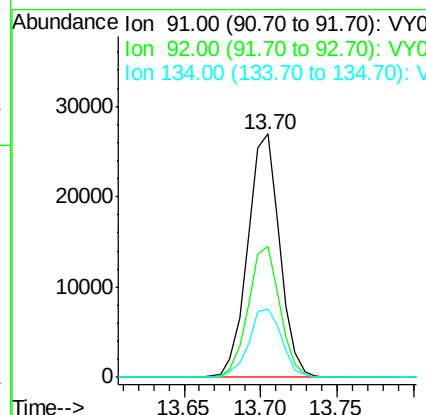
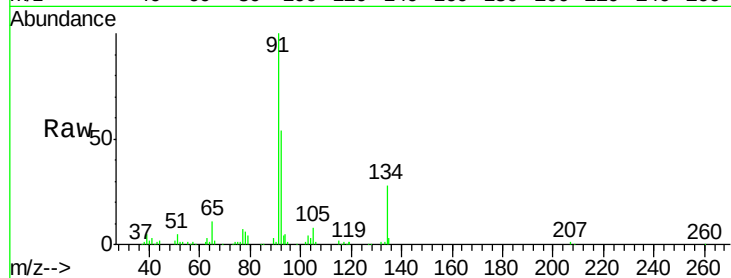
#89
n-Butylbenzene
Concen: 2.773 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.1	81.3
134	29.0	14.4	43.0

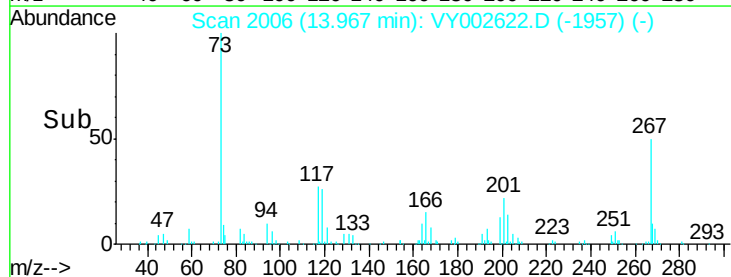
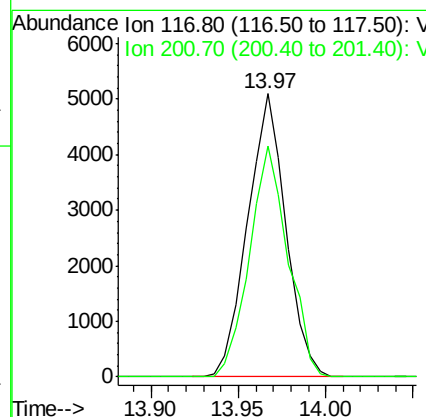
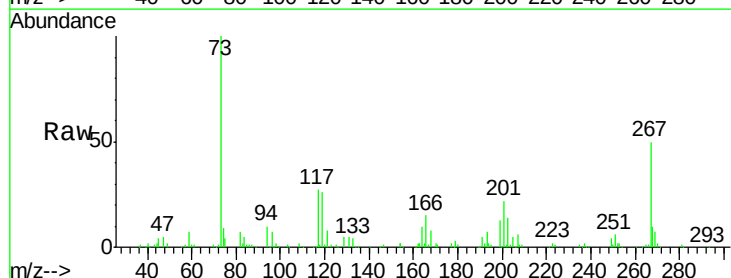
Manual Integrations
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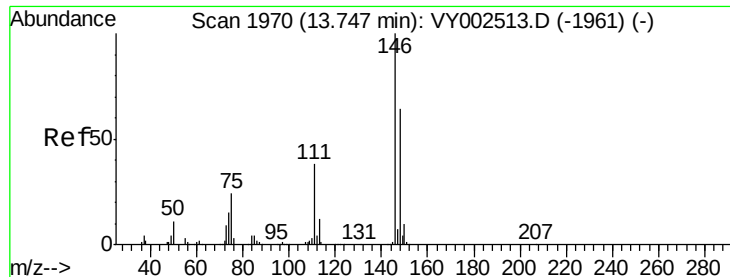
MMDadoda
5/8/2020 1:23:47 PM



#90
Hexachloroethane
Concen: 2.741 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.1	44.4	133.2





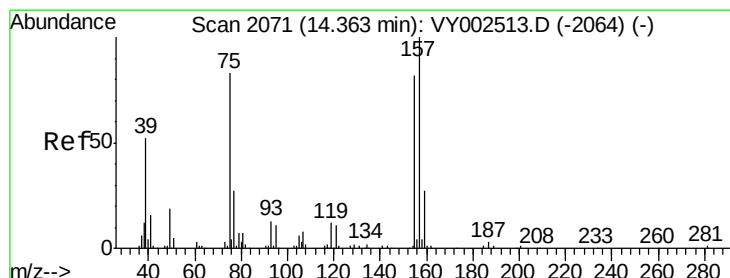
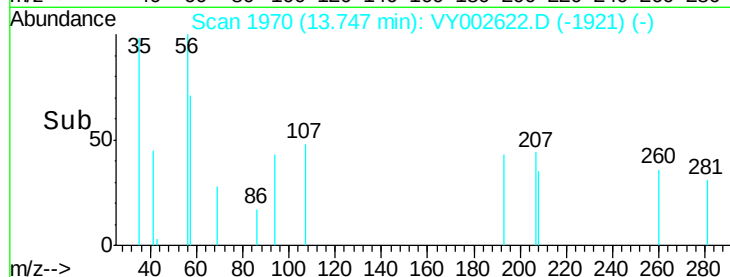
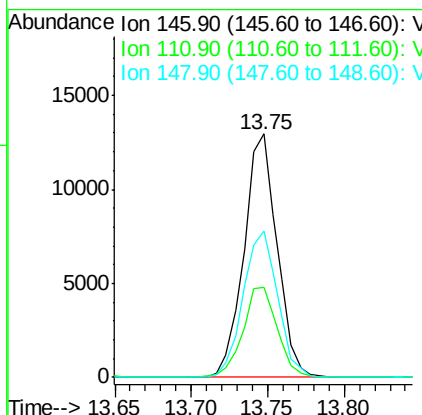
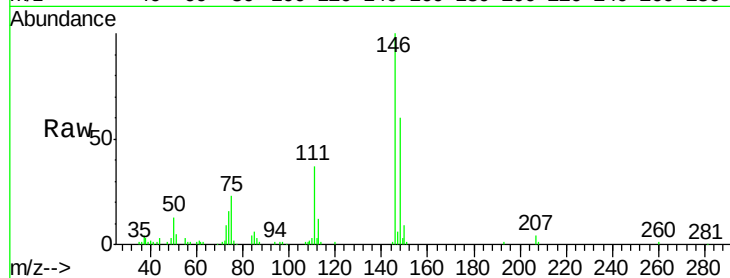
#91
 1,2-Dichlorobenzene
 Concen: 2.822 ug/l
 RT: 13.75 min Scan# 1970
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.1	57.5
148	62.6	31.9	95.7

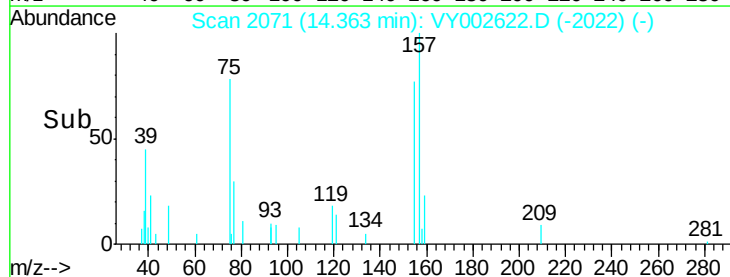
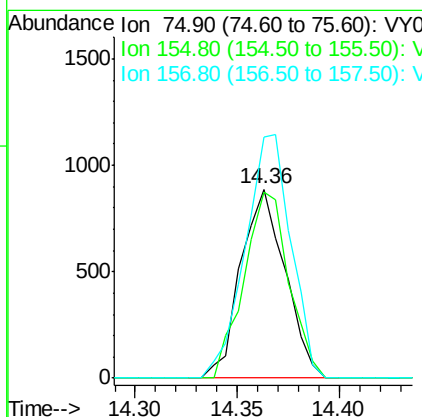
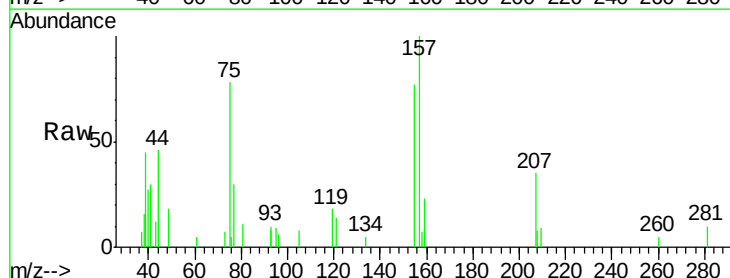
Manual Integrations
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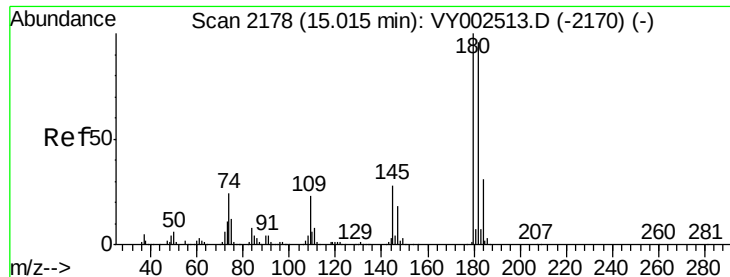
MMDadoda
 5/8/2020 1:23:47 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.770 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.6	51.3	153.9
157	133.2	65.0	195.0





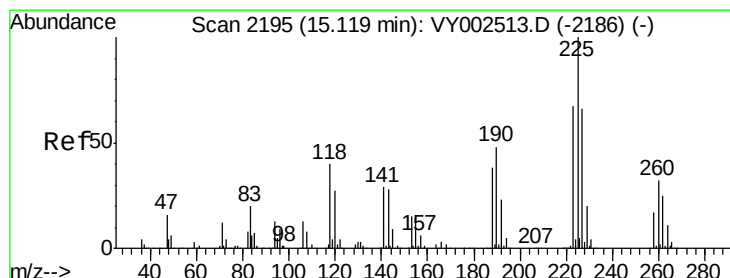
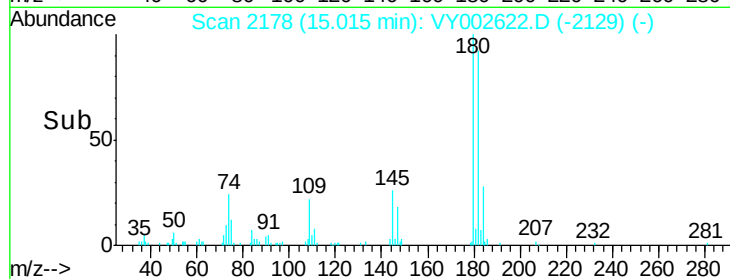
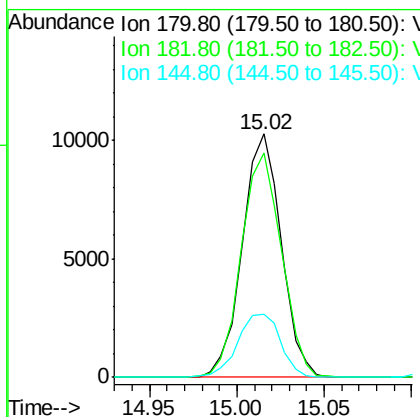
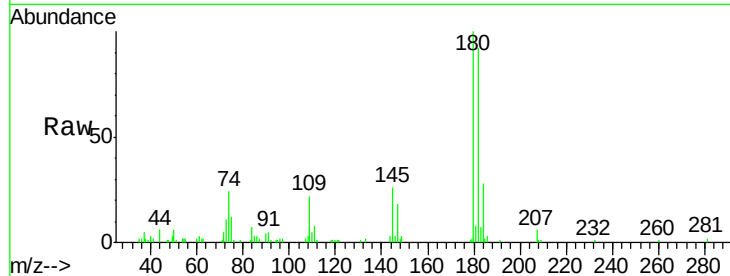
#93
 1,2,4-Trichlorobenzene
 Concen: 3.173 ug/l
 RT: 15.02 min Scan# 2178
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
180	100	15884		
182	95.6	47.9	143.6	
145	28.7	14.4	43.0	

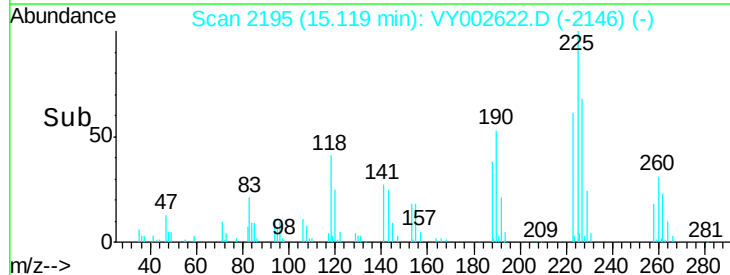
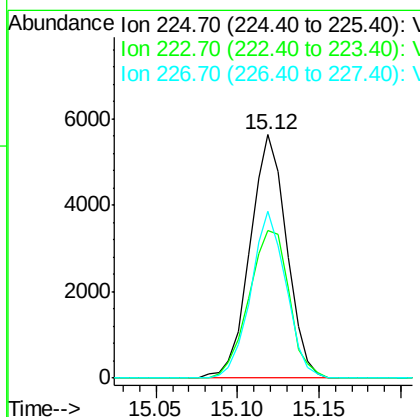
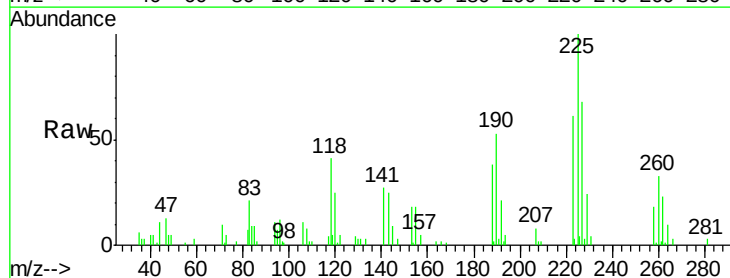
Manual Integrations
 APPROVED

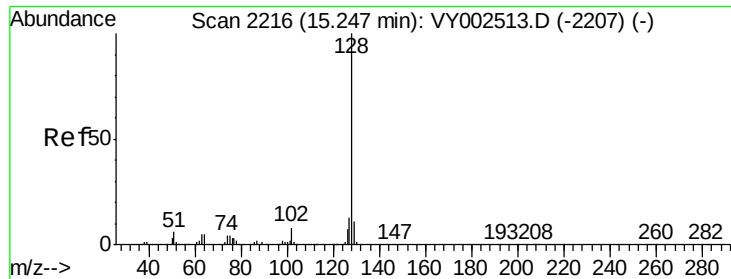
MMDadoda
 5/8/2020 1:23:47 PM



#94
 Hexachlorobutadiene
 Concen: 2.927 ug/l
 RT: 15.12 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VY002622.D
 Acq: 07 May 2020 11:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	8795		
223	66.6	32.1	96.5	
227	65.9	32.0	96.2	





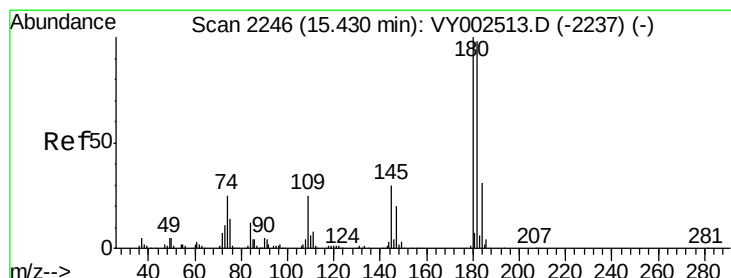
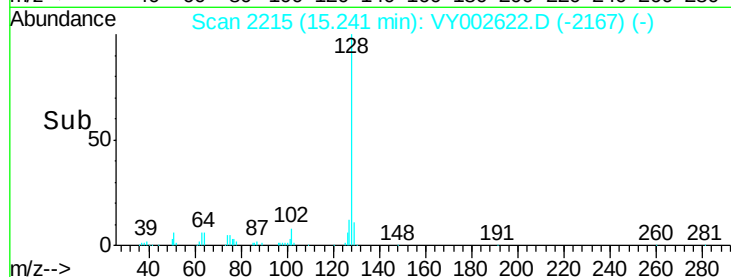
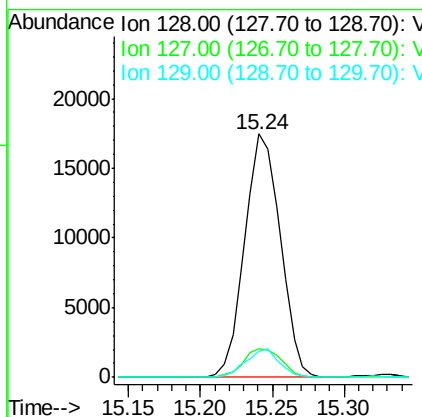
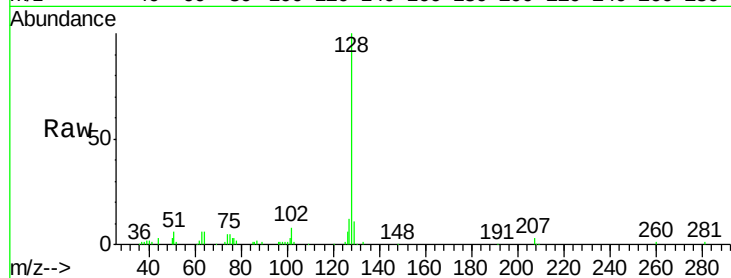
#95
Naphthalene
Concen: 3.277 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:	128	Resp:	29920
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.5	15.7
129	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/8/2020 1:23:47 PM



#96
1,2,3-Trichlorobenzene
Concen: 3.441 ug/l
RT: 15.43 min Scan# 2246
Delta R.T. -0.00 min
Lab File: VY002622.D
Acq: 07 May 2020 11:46

Tgt Ion:	180	Resp:	14622
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.9	143.8
145	30.7	15.0	45.1

