

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071020\
 Data File : VY003167.D
 Acq On : 10 Jul 2020 16:43
 Operator : SY/MD
 Sample : L3216-03 4PPB MDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Quant Time: Jul 11 06:50:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 11 06:48:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	474209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	697013	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	638825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	332968	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.14	65	187593	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
35) Dibromofluoromethane	7.72	113	184708	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
50) Toluene-d8	10.18	98	676499	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	
62) 4-Bromofluorobenzene	12.48	95	241879	44.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.80%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.91	85	15196	4.471 ug/l	100
3) Chloromethane	2.12	50	20449	4.338 ug/l	99
4) Vinyl Chloride	2.26	62	21196	4.382 ug/l	97
5) Bromomethane	2.66	94	16639	4.631 ug/l	97
6) Chloroethane	2.80	64	13040	4.104 ug/l	98
7) Trichlorofluoromethane	3.13	101	28994	4.197 ug/l	95
8) Diethyl Ether	3.53	74	9436	4.076 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.91	101	17828	4.273 ug/l	99
10) Methyl Iodide	4.10	142	17758	3.918 ug/l	98
11) Tert butyl alcohol	4.96	59	9745	22.516 ug/l	96
12) 1,1-Dichloroethene	3.88	96	17290	4.382 ug/l	95
13) Acrolein	3.74	56	8735	23.253 ug/l	99
14) Allyl chloride	4.48	41	25286	4.318 ug/l	96
15) Acrylonitrile	5.18	53	22732	20.444 ug/l	98
16) Acetone	3.96	43	20083	22.463 ug/l #	84
17) Carbon Disulfide	4.19	76	50800	4.195 ug/l	96
18) Methyl Acetate	4.49	43	11527	4.643 ug/l	98
19) Methyl tert-butyl Ether	5.24	73	46440	4.200 ug/l	91
20) Methylene Chloride	4.72	84	42828	8.058 ug/l	90
21) trans-1,2-Dichloroethene	5.23	96	18684	4.186 ug/l	88
22) Diisopropyl ether	6.13	45	53724	4.134 ug/l #	94
23) Vinyl Acetate	6.07	43	165163	19.069 ug/l	100
24) 1,1-Dichloroethane	6.02	63	31355	4.165 ug/l	96
25) 2-Butanone	6.99	43	29441	20.056 ug/l	98
26) 2,2-Dichloropropane	6.99	77	28354	4.182 ug/l	96
27) cis-1,2-Dichloroethene	6.99	96	21071	4.288 ug/l	95
28) Bromochloromethane	7.34	49	12711	3.900 ug/l #	99
29) Tetrahydrofuran	7.36	42	20600	20.890 ug/l	98
30) Chloroform	7.52	83	33397	4.307 ug/l	93
31) Cyclohexane	7.79	56	37466	5.146 ug/l #	73
32) 1,1,1-Trichloroethane	7.71	97	29346	4.204 ug/l	100
36) 1,1-Dichloropropene	7.93	75	25859	4.093 ug/l	99
37) Ethyl Acetate	7.08	43	13915	4.090 ug/l	95
38) Carbon Tetrachloride	7.91	117	25160	3.858 ug/l	89

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 Quant Title : SW846 8260
 QLast Update : Sat Jul 11 06:48:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	32013	4.034	ug/l	95
40) Benzene	8.16	78	71146	4.090	ug/l	98
41) Methacrylonitrile	7.35	41	18255	8.909	ug/l #	49
42) 1,2-Dichloroethane	8.24	62	22164	4.139	ug/l	96
43) Isopropyl Acetate	8.27	43	25544	3.879	ug/l	96
44) Trichloroethene	8.94	130	21858	4.099	ug/l	87
45) 1,2-Dichloropropane	9.22	63	18401	4.088	ug/l	92
46) Dibromomethane	9.31	93	10876	4.137	ug/l	99
47) Bromodichloromethane	9.50	83	25114	4.017	ug/l	99
48) Methyl methacrylate	9.30	41	11110	3.774	ug/l	98
49) 1,4-Dioxane	9.30	88	2545	76.280	ug/l #	79
51) 4-Methyl-2-Pentanone	10.07	43	63875	18.662	ug/l	100
52) Toluene	10.24	92	44758	4.026	ug/l	96
53) t-1,3-Dichloropropene	10.47	75	25300	3.906	ug/l	99
54) cis-1,3-Dichloropropene	9.93	75	28816	3.861	ug/l	95
55) 1,1,2-Trichloroethane	10.64	97	14529	3.900	ug/l	95
56) Ethyl methacrylate	10.51	69	18683	3.689	ug/l	98
57) 1,3-Dichloropropane	10.79	76	25552	4.045	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.78	63	49209	19.052	ug/l	98
59) 2-Hexanone	10.83	43	43094	18.036	ug/l	97
60) Dibromochloromethane	10.99	129	18500	3.949	ug/l	95
61) 1,2-Dibromoethane	11.09	107	14883	4.048	ug/l	98
64) Tetrachloroethene	10.72	164	23275	4.086	ug/l	98
65) Chlorobenzene	11.52	112	49831	4.049	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.59	131	18721	3.917	ug/l	98
67) Ethyl Benzene	11.59	91	87695	3.991	ug/l	98
68) m/p-Xylenes	11.70	106	67520	8.099	ug/l	98
69) o-Xylene	12.03	106	30905	3.968	ug/l	98
70) Styrene	12.04	104	50260	3.772	ug/l	98
71) Bromoform	12.20	173	11881	3.787	ug/l #	100
73) Isopropylbenzene	12.33	105	82985	3.911	ug/l	100
74) N-amyl acetate	12.14	43	22335	3.751	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	15950	3.892	ug/l	93
76) 1,2,3-Trichloropropane	12.63	75	22959	7.790	ug/l #	100
77) Bromobenzene	12.61	156	22435	4.148	ug/l	98
78) n-propylbenzene	12.67	91	102364	4.093	ug/l	100
79) 2-Chlorotoluene	12.75	91	57929	4.151	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	70329	3.977	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	5569	3.677	ug/l	97
82) 4-Chlorotoluene	12.85	91	60154	4.130	ug/l	99
83) tert-Butylbenzene	13.07	119	64298	4.120	ug/l	99
84) 1,2,4-Trimethylbenzene	13.12	105	72228	4.059	ug/l	98
85) sec-Butylbenzene	13.25	105	88360	4.120	ug/l	100
86) p-Isopropyltoluene	13.37	119	80378	4.014	ug/l	98
87) 1,3-Dichlorobenzene	13.36	146	42066	4.113	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	43073	4.253	ug/l	92
89) n-Butylbenzene	13.69	91	77859	4.133	ug/l	96
90) Hexachloroethane	13.96	117	14316	3.926	ug/l	99
91) 1,2-Dichlorobenzene	13.74	146	37463	4.174	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.36	75	2726	4.103	ug/l	98

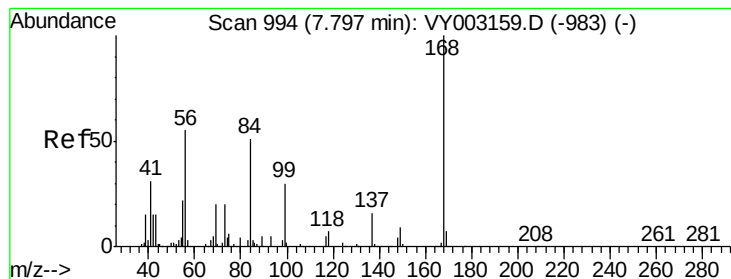
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	27875	4.365	ug/l	98
94) Hexachlorobutadiene	15.11	225	19284	4.407	ug/l	99
95) Naphthalene	15.23	128	44042	4.173	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	22595	4.476	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

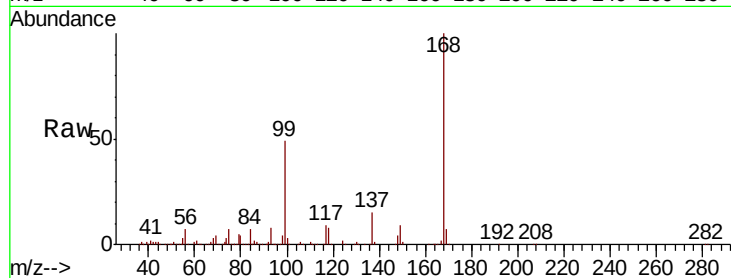
MDL-SOIL-03-QT3-2020

Tot Ion:168 Resp: 474209

Ion Ratio Lower Upper

168 100

99 48.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003167.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003167.D (-945) (-)

7.80

200000

150000

100000

50000

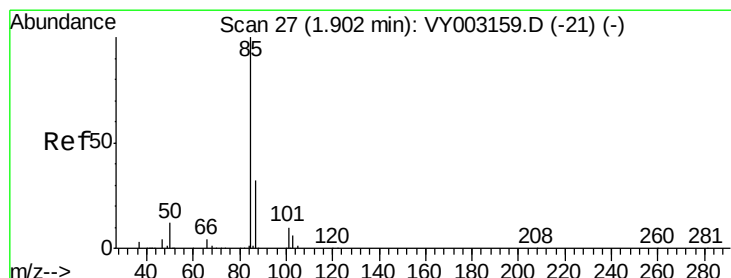
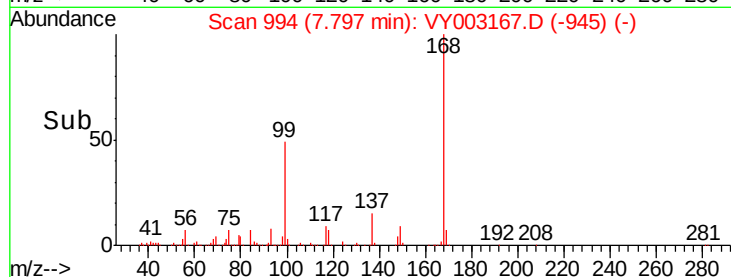
0

7.70

7.80

7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.471 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY003167.D

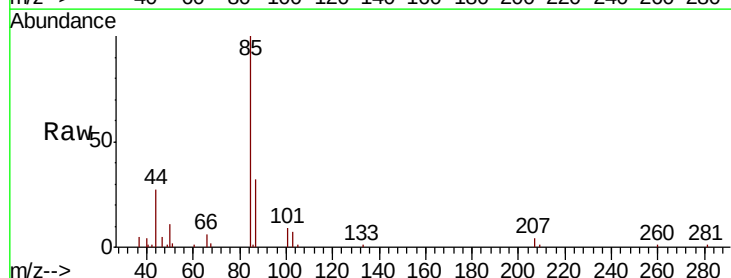
Acq: 10 Jul 2020 16:43

Tgt Ion: 85 Resp: 15196

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VY003167.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY003167.D (-1) (-)

1.91

10000

8000

6000

4000

2000

0

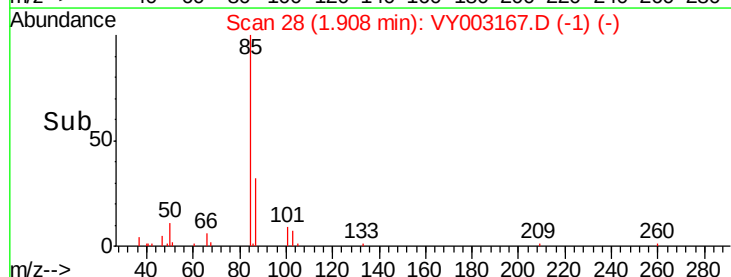
1.85

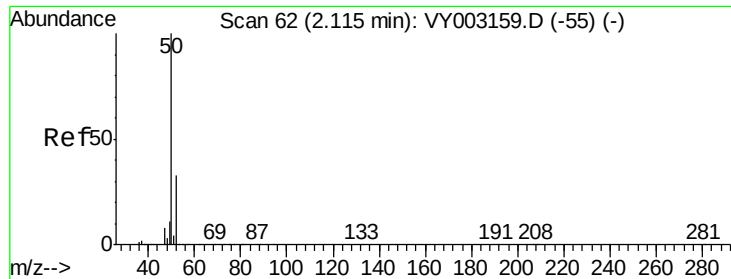
1.90

1.95

2.00

Time-->





#3

Chloromethane

Concen: 4.338 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

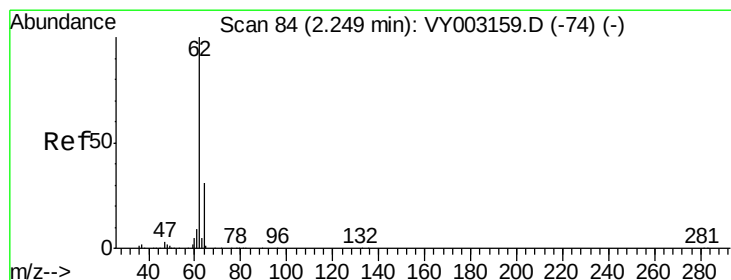
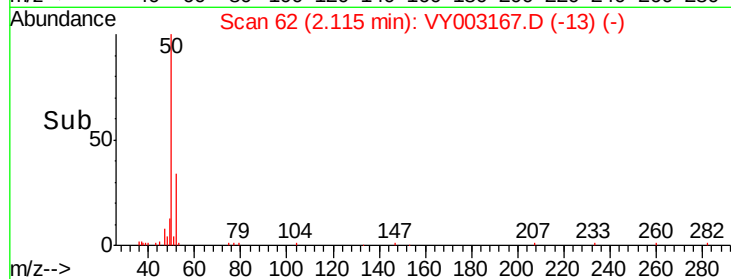
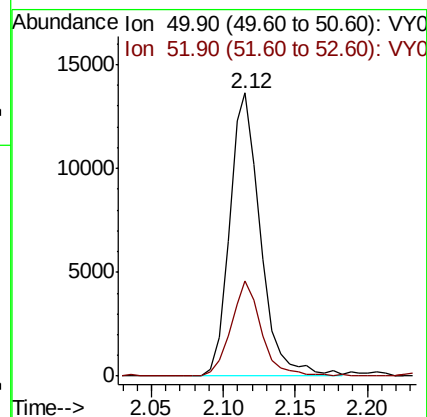
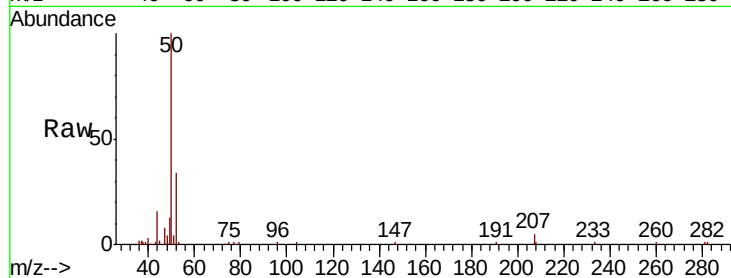
MDL-SOIL-03-QT3-2020

Tot Ion: 50 Resp: 20449

Ion Ratio Lower Upper

50 100

52 33.7 26.6 39.8



#4

Vinyl Chloride

Concen: 4.382 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY003167.D

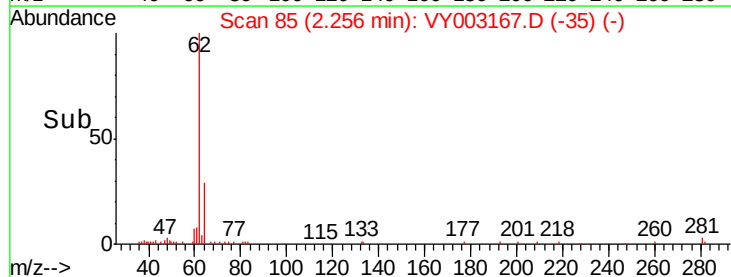
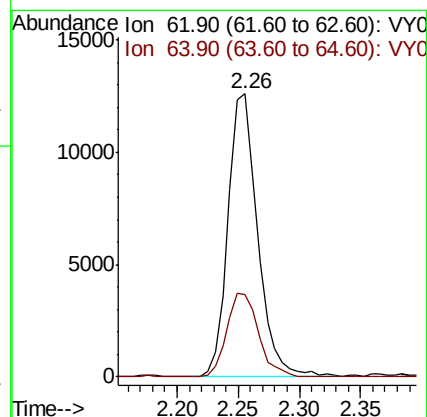
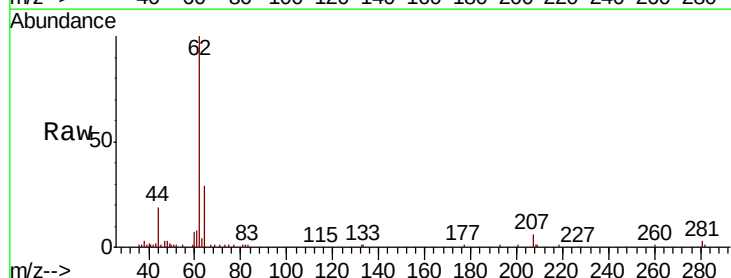
Acq: 10 Jul 2020 16:43

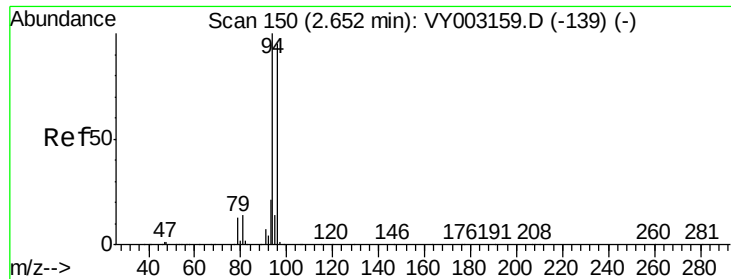
Tgt Ion: 62 Resp: 21196

Ion Ratio Lower Upper

62 100

64 29.3 24.6 37.0





#5

Bromomethane

Concen: 4.631 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

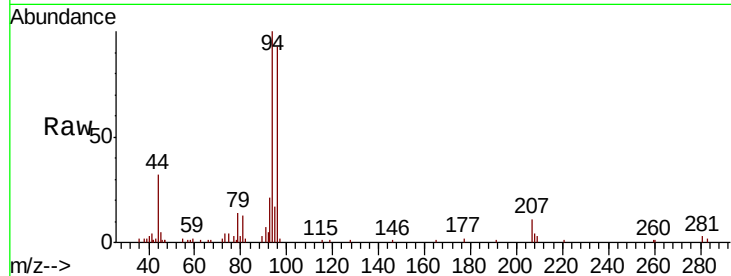
MDL-SOIL-03-QT3-2020

Tot Ion: 94 Resp: 16639

Ion Ratio Lower Upper

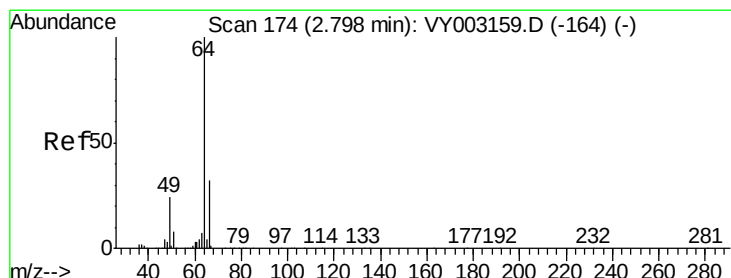
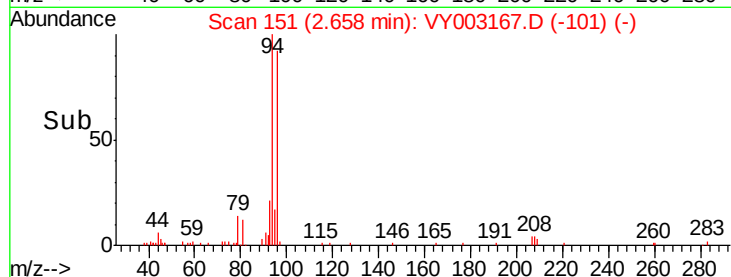
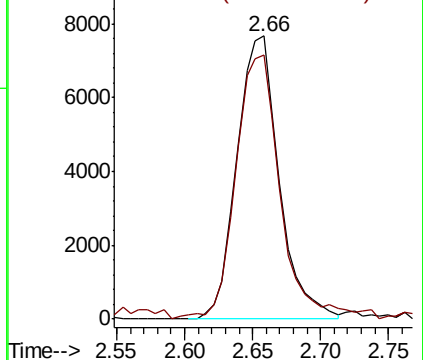
94 100

96 91.7 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 4.104 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.00 min

Lab File: VY003167.D

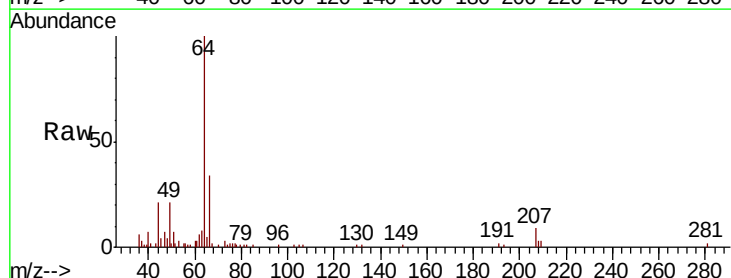
Acq: 10 Jul 2020 16:43

Tgt Ion: 64 Resp: 13040

Ion Ratio Lower Upper

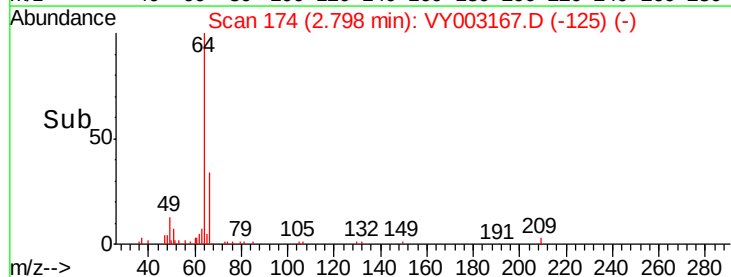
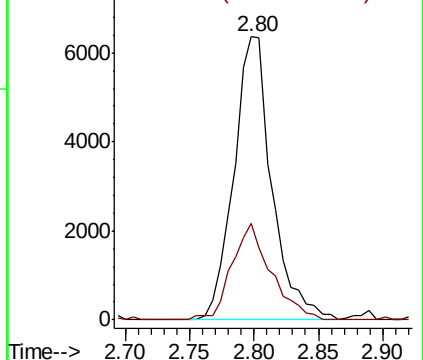
64 100

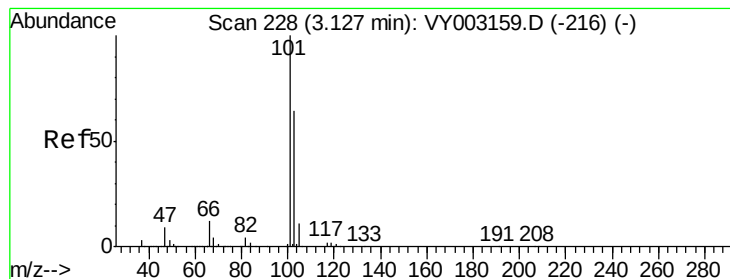
66 33.9 26.0 39.0



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

Trichlorofluoromethane

Concen: 4.197 ug/l

RT: 3.13 min Scan# 228

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

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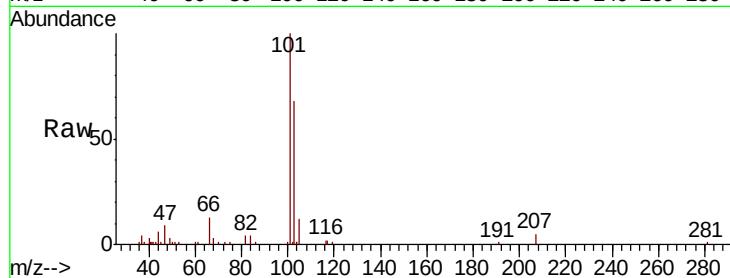
MDL-SOIL-03-QT3-2020

Tot Ion:101 Resp: 28994

Ion Ratio Lower Upper

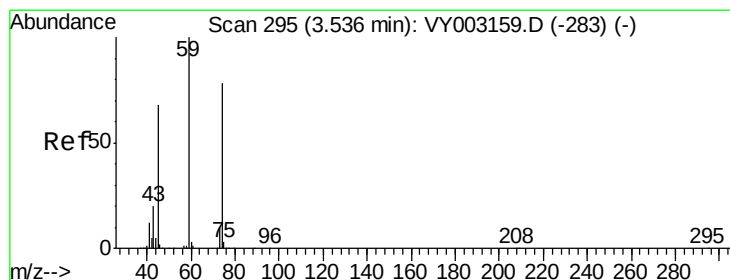
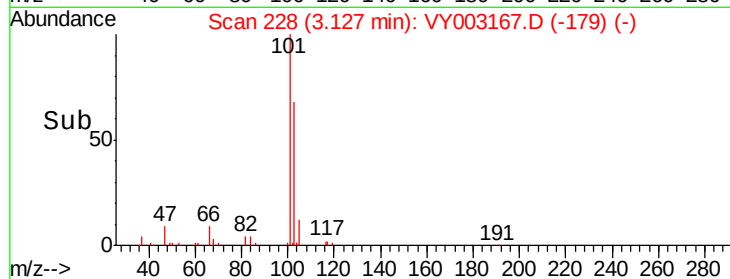
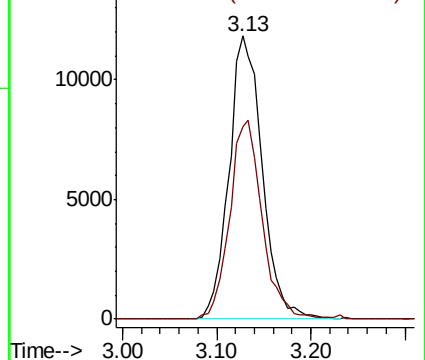
101 100

103 67.9 51.3 76.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.076 ug/l

RT: 3.53 min Scan# 294

Delta R.T. -0.01 min

Lab File: VY003167.D

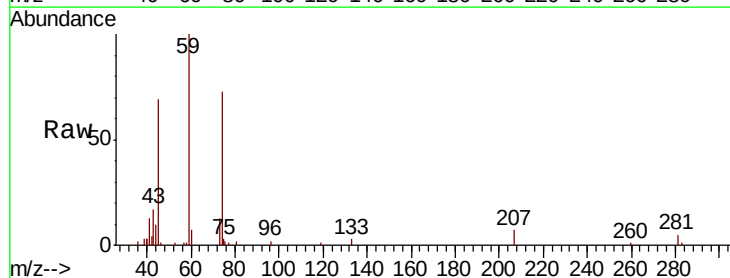
Acq: 10 Jul 2020 16:43

Tgt Ion: 74 Resp: 9436

Ion Ratio Lower Upper

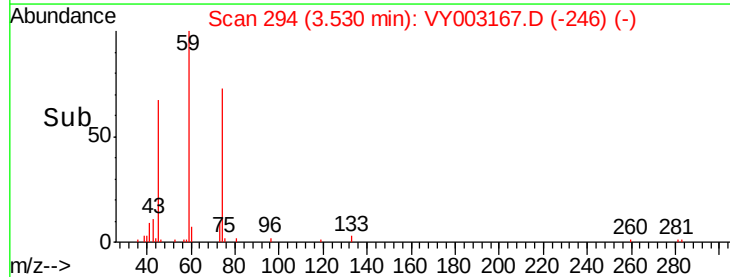
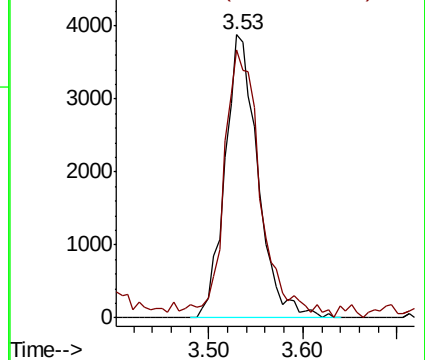
74 100

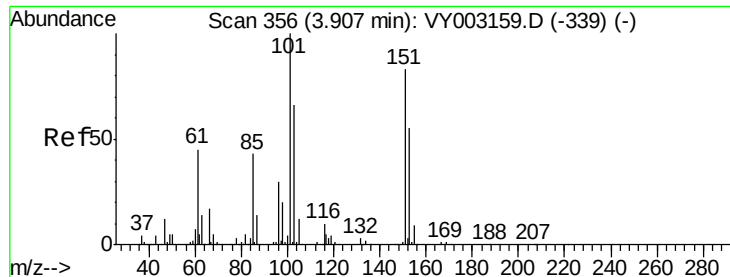
45 96.9 45.3 135.8



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.273 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

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MDL-SOIL-03-QT3-2020

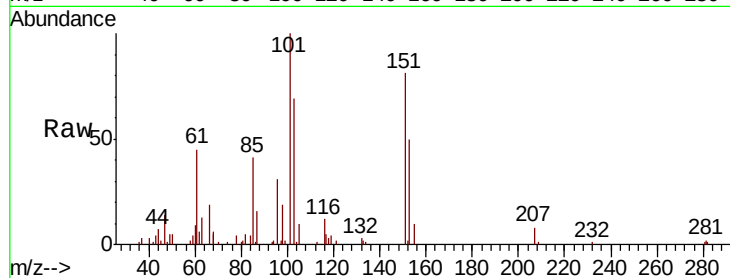
Tot Ion:101 Resp: 17828

Ion Ratio Lower Upper

101 100

85 44.2 34.9 52.3

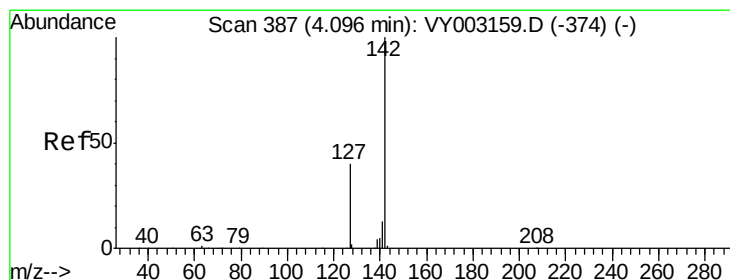
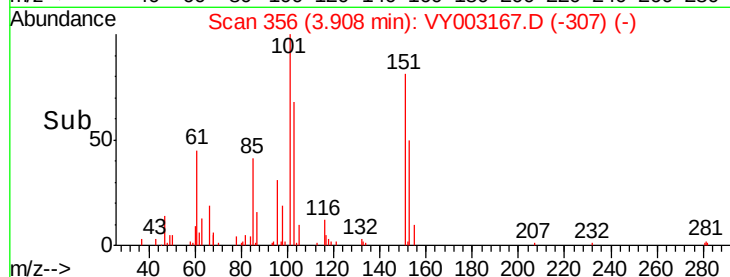
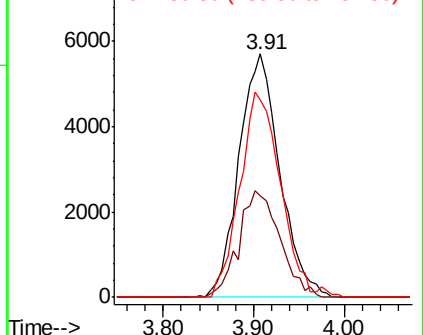
151 83.4 67.0 100.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.918 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

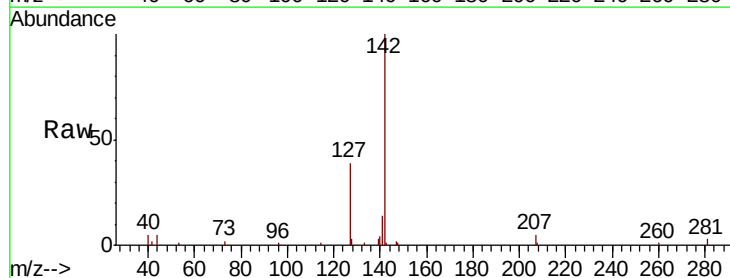
Tgt Ion:142 Resp: 17758

Ion Ratio Lower Upper

142 100

127 41.2 33.5 50.3

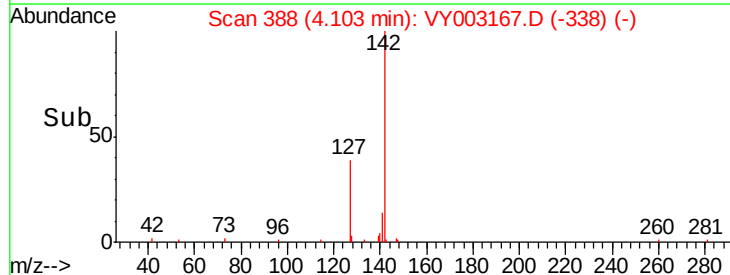
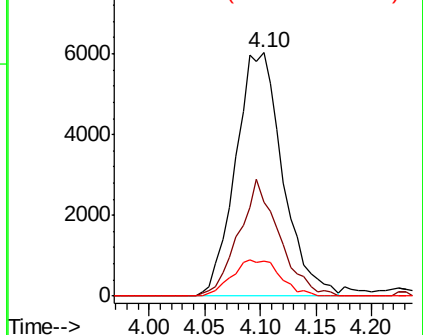
141 15.2 11.2 16.8

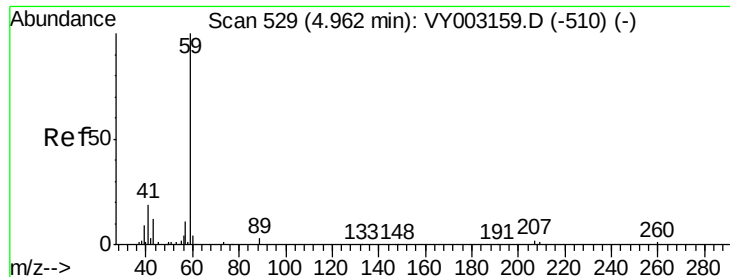


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

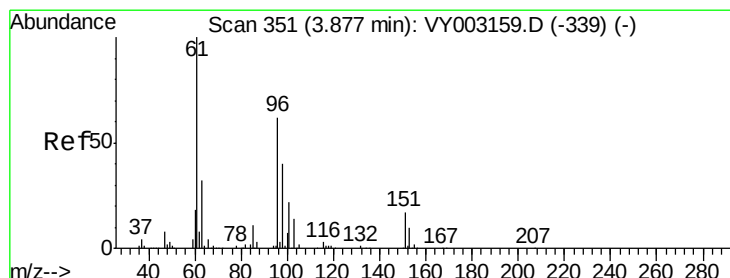
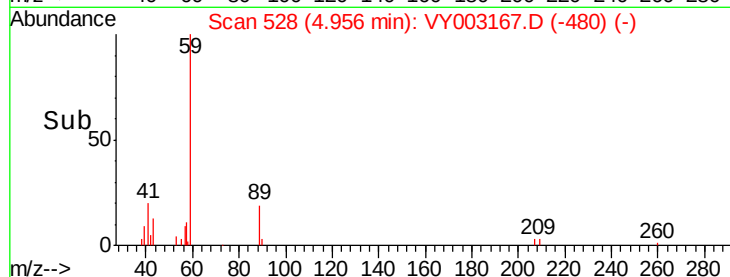
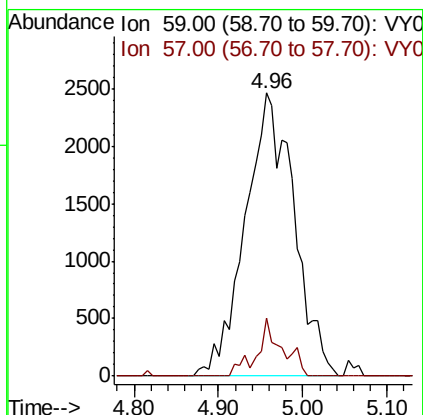
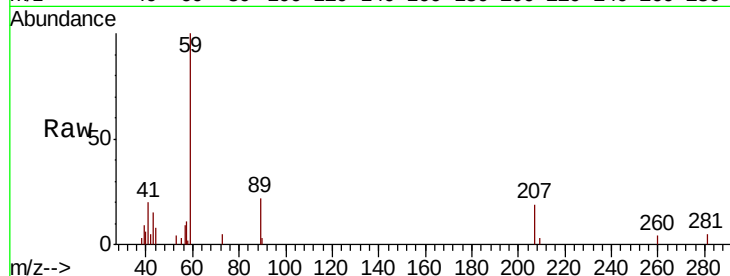




#11
Tert butyl alcohol
Concen: 22.516 ug/l
RT: 4.96 min Scan# 528
Delta R.T. -0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

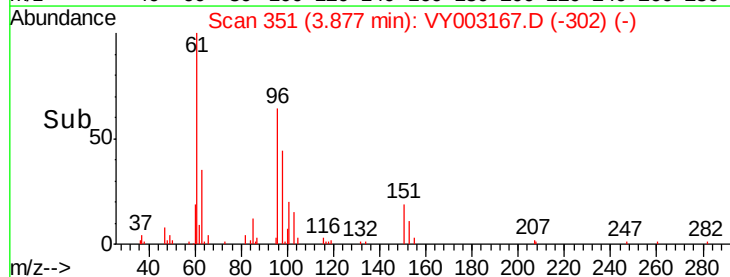
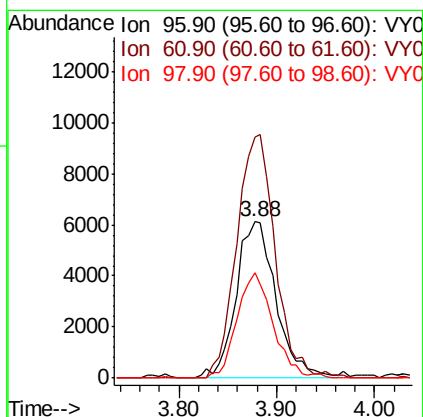
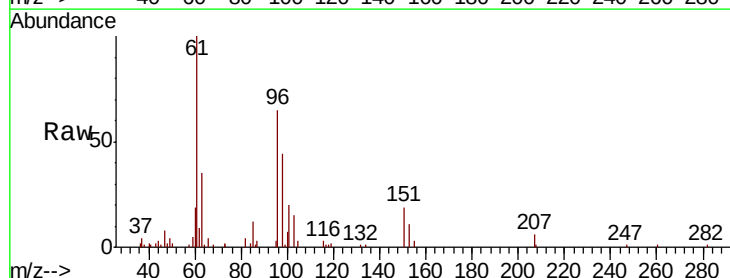
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

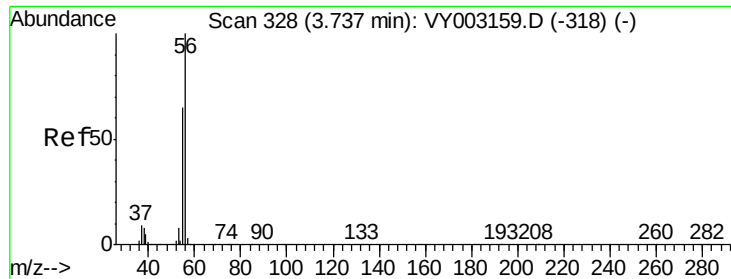
Tot Ion: 59 Resp: 9745
Ion Ratio Lower Upper
59 100
57 8.9 8.4 12.6



#12
1,1-Dichloroethene
Concen: 4.382 ug/l
RT: 3.88 min Scan# 351
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 96 Resp: 17290
Ion Ratio Lower Upper
96 100
61 154.4 128.6 193.0
98 67.9 51.6 77.4

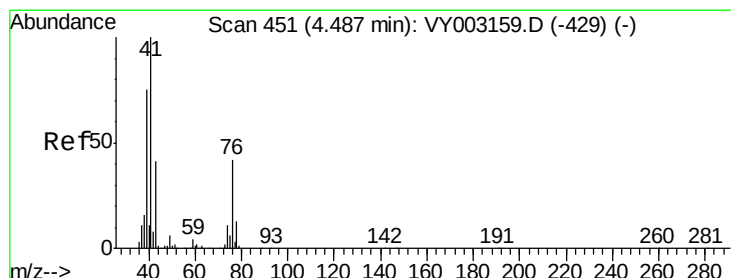
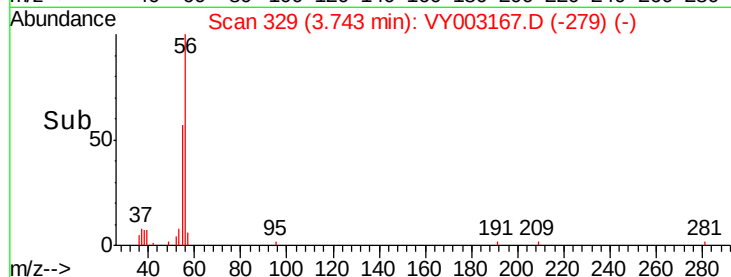
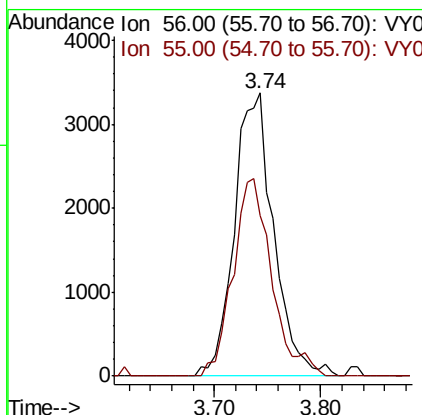
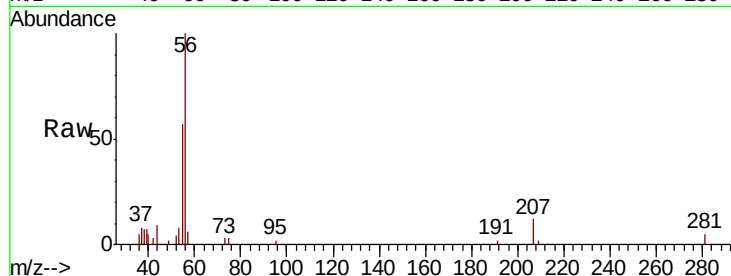




#13
Acrolein
Concen: 23.253 ug/l
RT: 3.74 min Scan# 329
Delta R.T. 0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

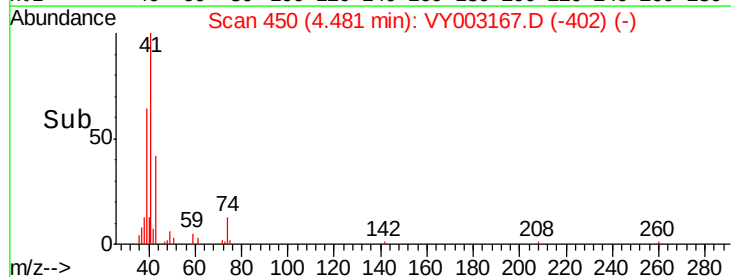
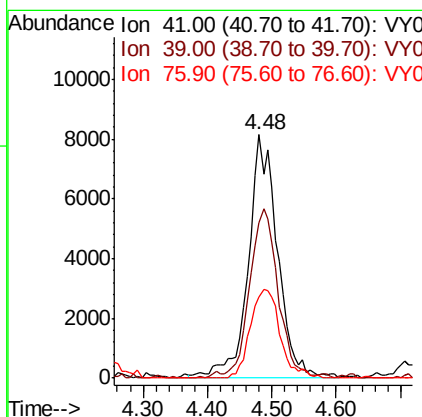
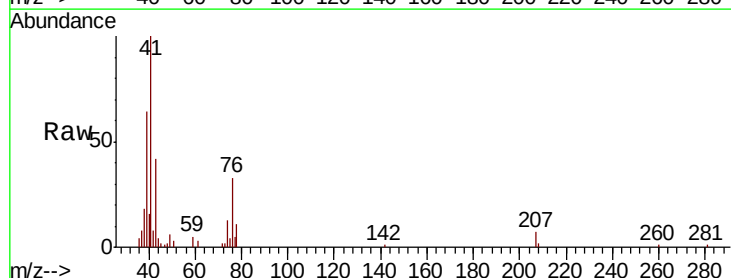
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

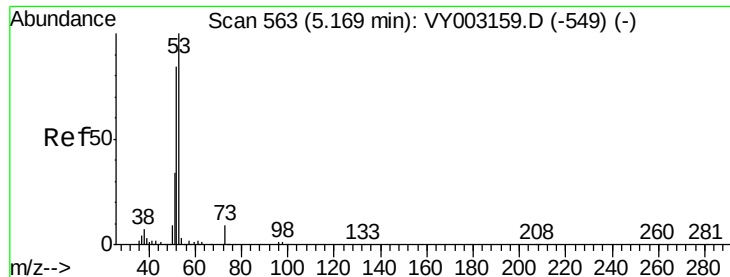
Tot Ion: 56 Resp: 8735
Ion Ratio Lower Upper
56 100
55 68.8 56.0 84.0



#14
Allyl chloride
Concen: 4.318 ug/l
RT: 4.48 min Scan# 450
Delta R.T. -0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 41 Resp: 25286
Ion Ratio Lower Upper
41 100
39 67.3 56.6 85.0
76 37.1 31.6 47.4

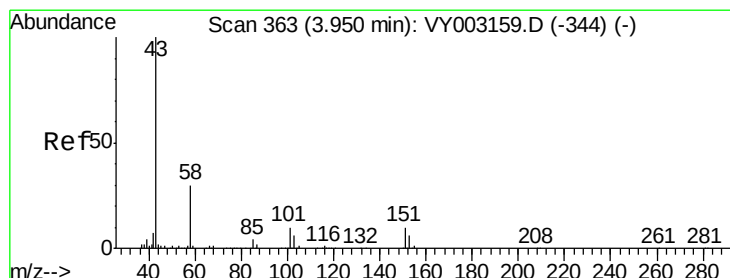
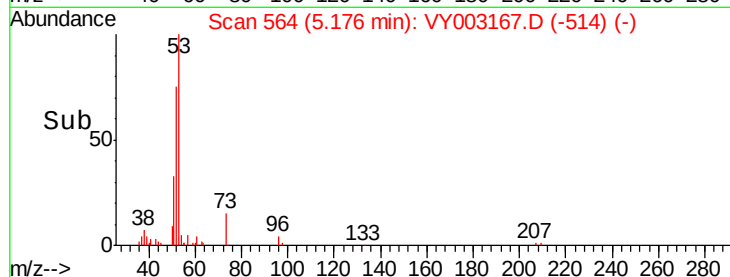
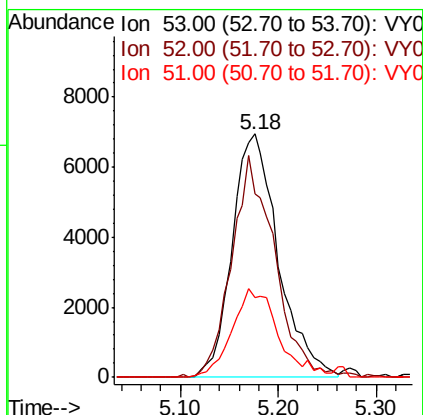
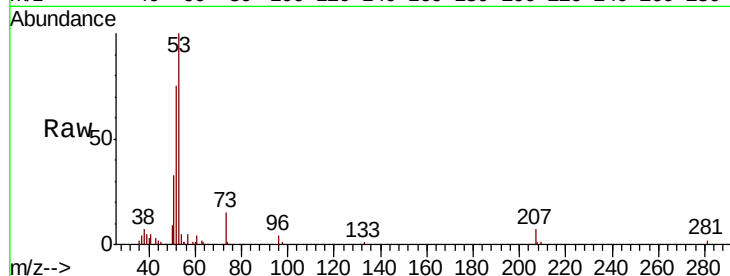




#15
 Acrylonitrile
 Concen: 20.444 ug/l
 RT: 5.18 min Scan# 564
 Delta R.T. 0.01 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

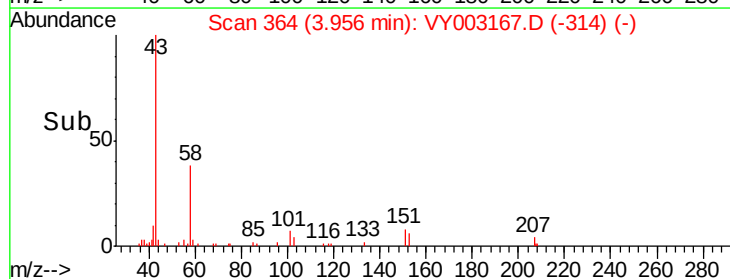
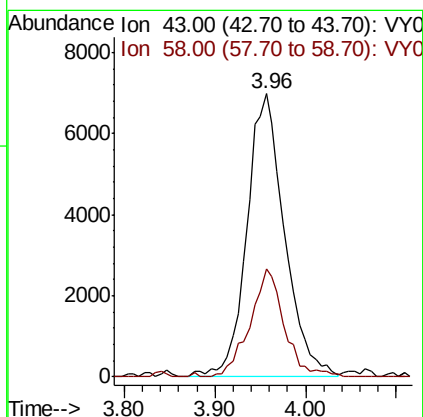
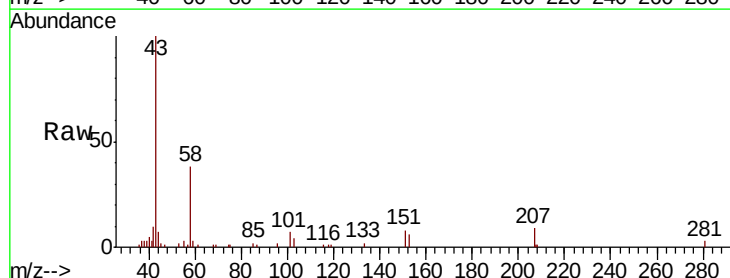
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

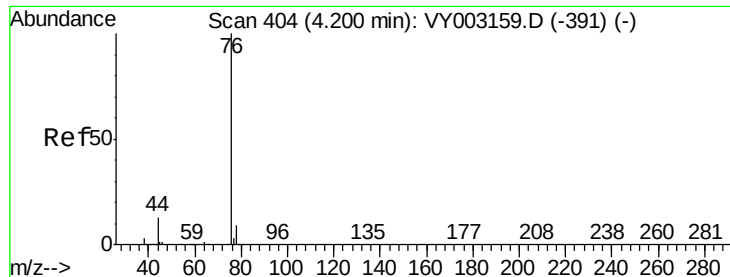
Tot Ion: 53 Resp: 22732
 Ion Ratio Lower Upper
 53 100
 52 84.9 65.8 98.6
 51 36.4 29.0 43.4



#16
 Acetone
 Concen: 22.463 ug/l
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 43 Resp: 20083
 Ion Ratio Lower Upper
 43 100
 58 38.1 23.8 35.6#





#17

Carbon Disulfide

Concen: 4.195 ug/l

RT: 4.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

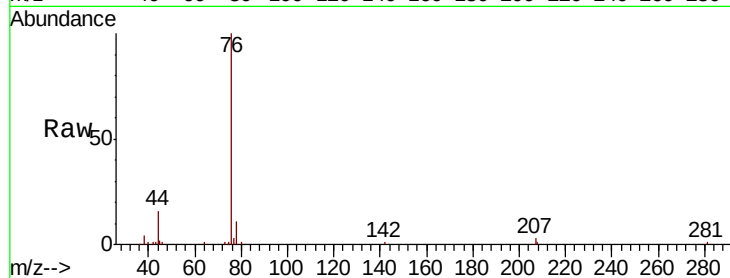
MDL-SOIL-03-QT3-2020

Tot Ion: 76 Resp: 50800

Ion Ratio Lower Upper

76 100

78 10.6 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.19

20000

15000

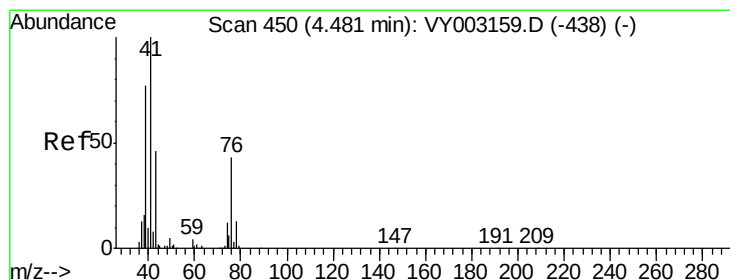
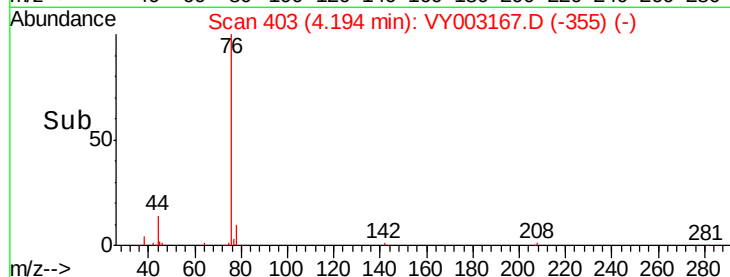
10000

5000

0

Time-->

4.10 4.20 4.30



#18

Methyl Acetate

Concen: 4.643 ug/l

RT: 4.49 min Scan# 452

Delta R.T. 0.01 min

Lab File: VY003167.D

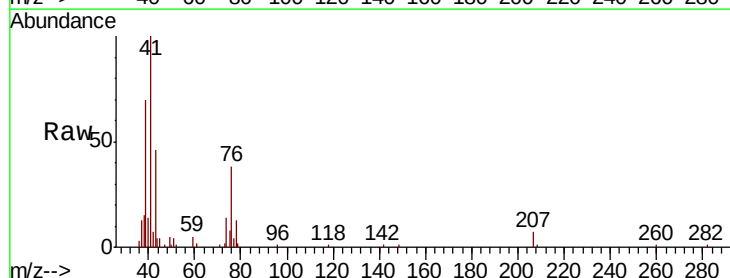
Acq: 10 Jul 2020 16:43

Tgt Ion: 43 Resp: 11527

Ion Ratio Lower Upper

43 100

74 26.8 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

4.49

4000

3000

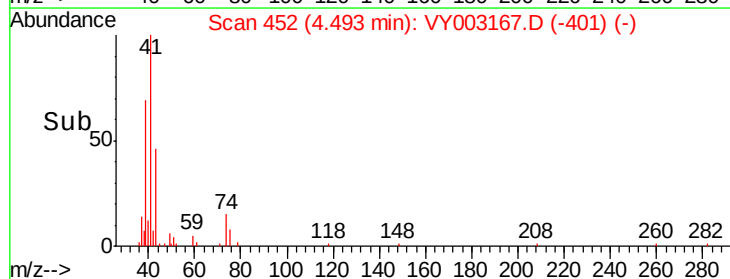
2000

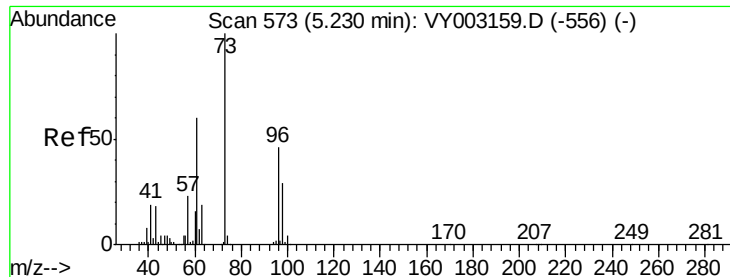
1000

0

Time-->

4.40 4.50 4.60

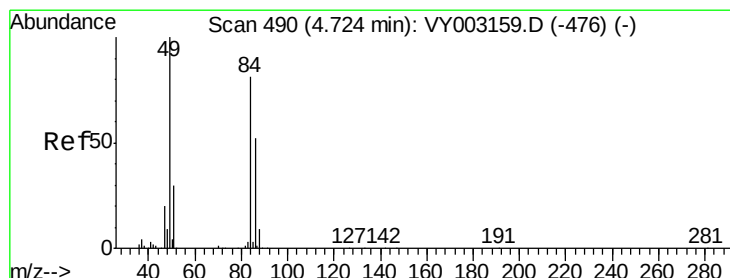
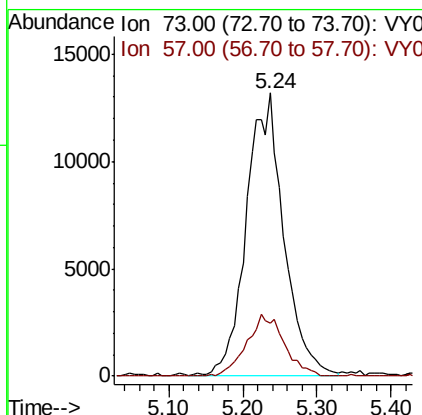
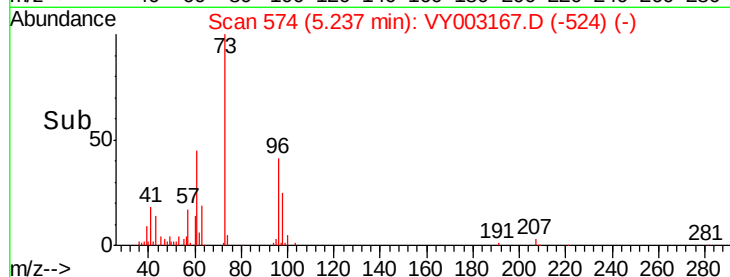
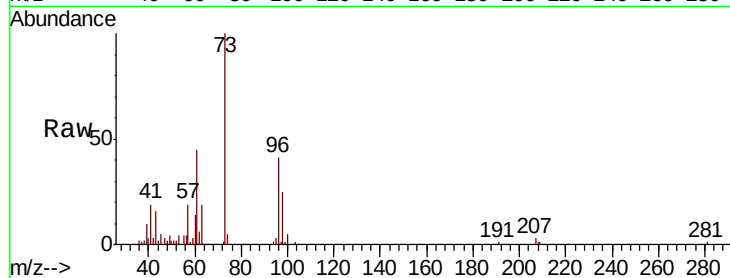




#19
Methyl tert-butyl Ether
Concen: 4.200 ug/l
RT: 5.24 min Scan# 574
Delta R.T. 0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

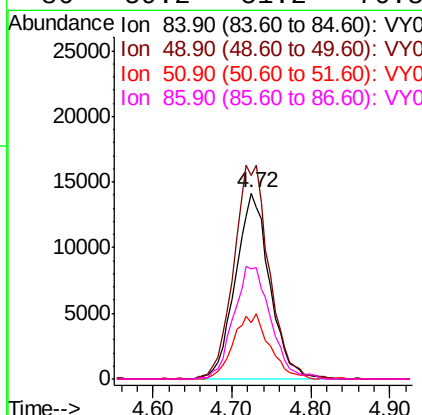
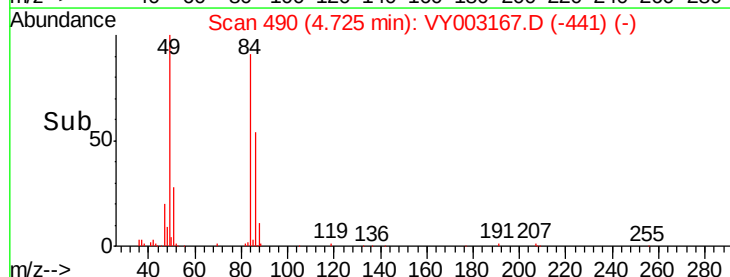
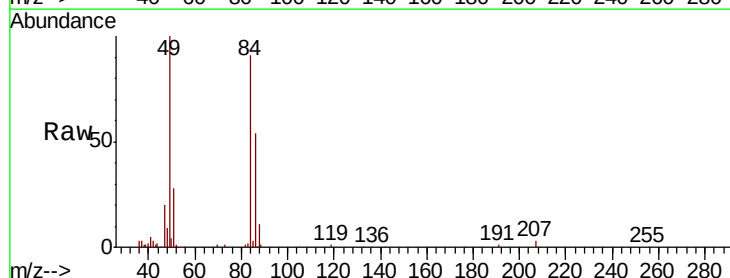
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

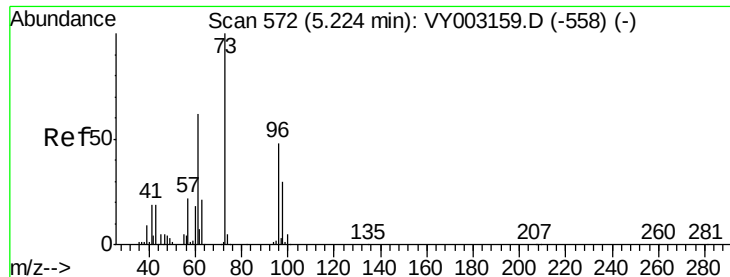
Tot Ion: 73 Resp: 46440
Ion Ratio Lower Upper
73 100
57 18.5 18.1 27.1



#20
Methylene Chloride
Concen: 8.058 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 84 Resp: 42828
Ion Ratio Lower Upper
84 100
49 109.5 98.2 147.4
51 30.2 29.8 44.6
86 59.2 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 4.186 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

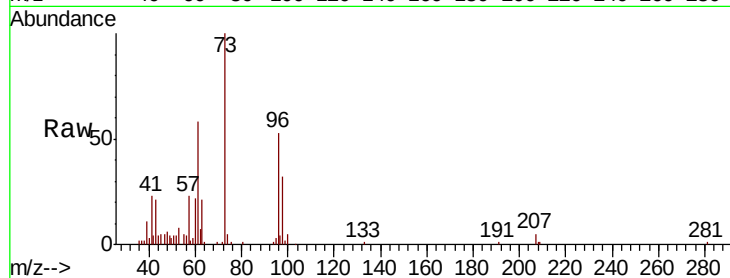
Tot Ion: 96 Resp: 18684

Ion Ratio Lower Upper

96 100

61 108.9 102.5 153.7

98 61.3 49.8 74.8

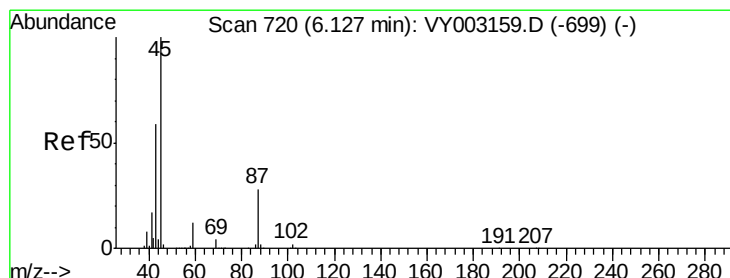
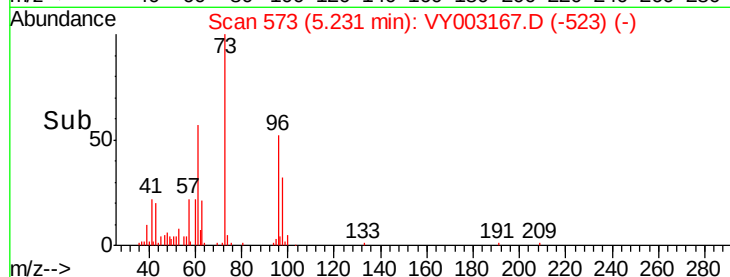
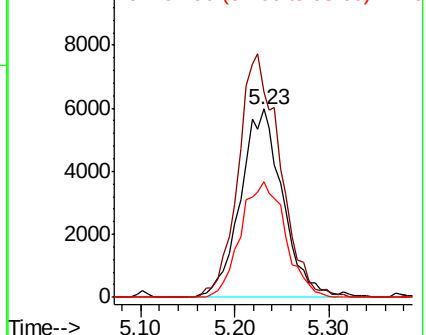


Abundance

Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0



#22

Diisopropyl ether

Concen: 4.134 ug/l

RT: 6.13 min Scan# 720

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion: 45 Resp: 53724

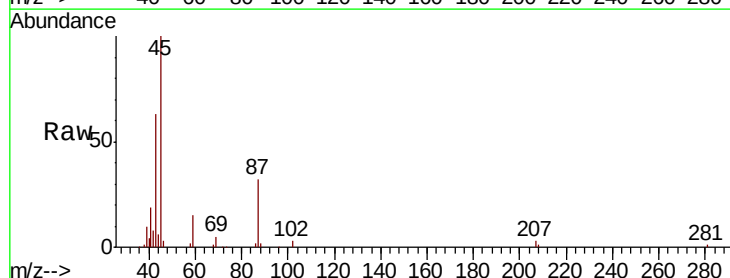
Ion Ratio Lower Upper

45 100

43 62.7 47.0 70.4

87 31.7 22.6 33.8

59 15.2 9.8 14.6#



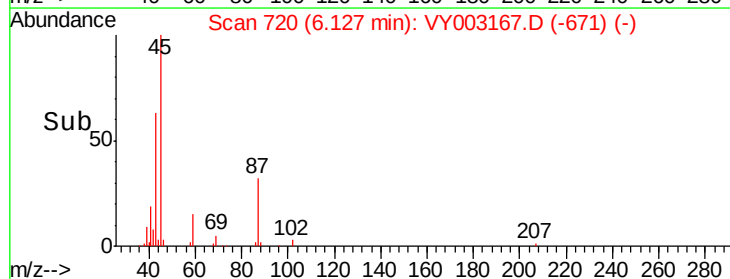
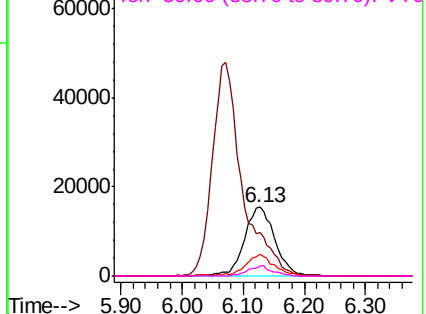
Abundance

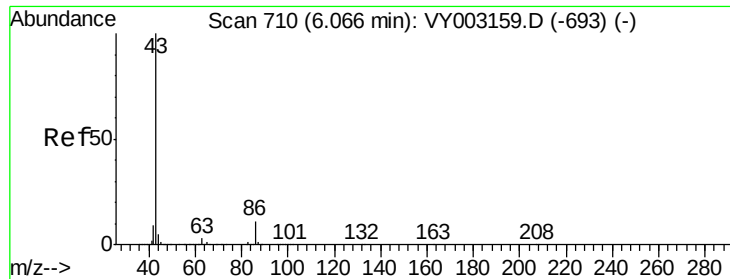
Ion 45.00 (44.70 to 45.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

Ion 59.00 (58.70 to 59.70): VY0





#23

Vinyl Acetate

Concen: 19.069 ug/l

RT: 6.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

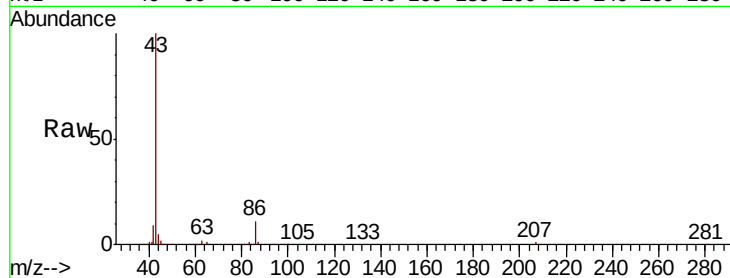
MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 165163

Ion Ratio Lower Upper

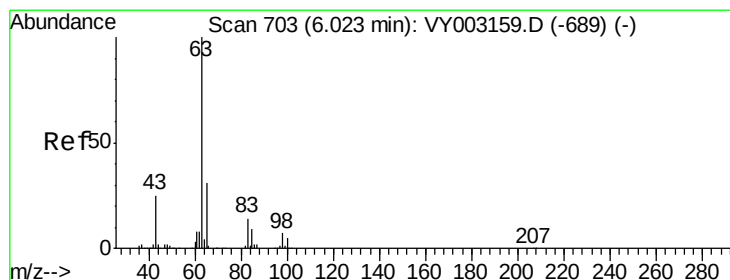
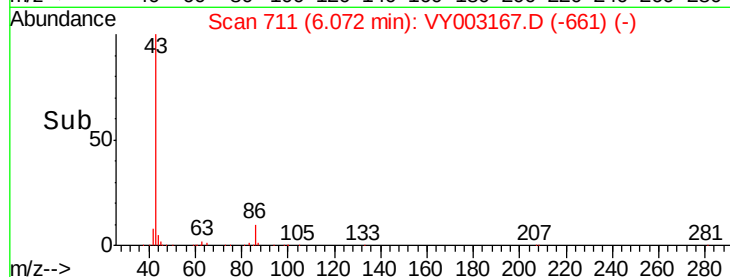
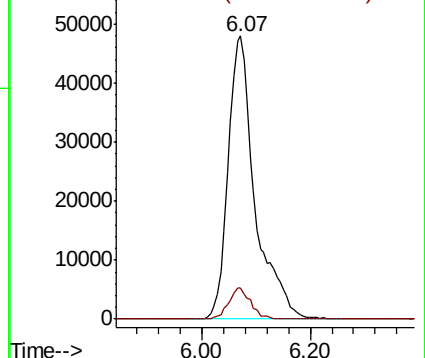
43 100

86 10.9 8.8 13.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 4.165 ug/l

RT: 6.02 min Scan# 703

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

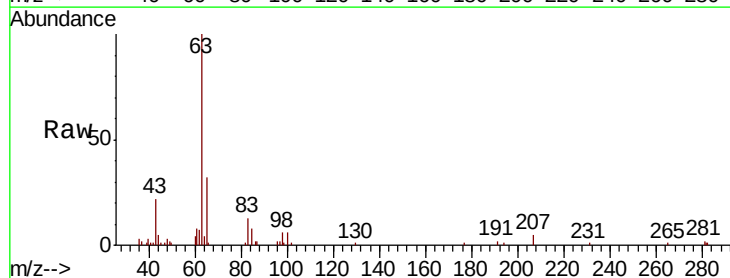
Tgt Ion: 63 Resp: 31355

Ion Ratio Lower Upper

63 100

98 5.8 3.6 10.8

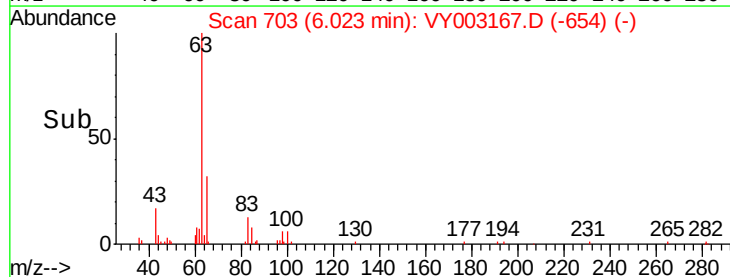
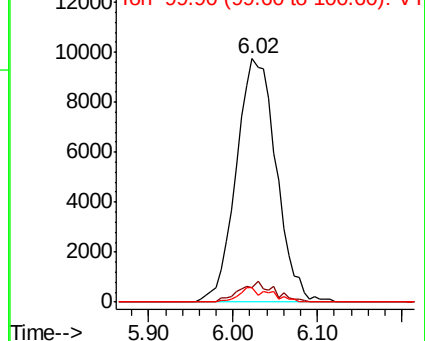
100 6.0 2.4 7.2

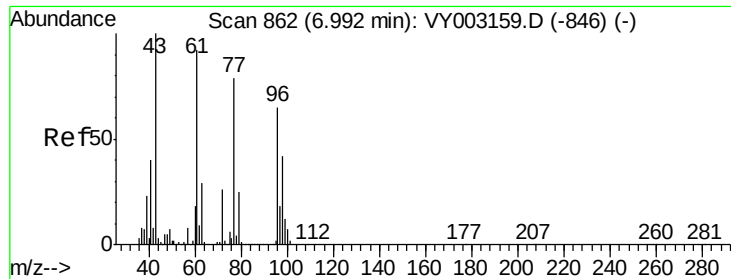


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0

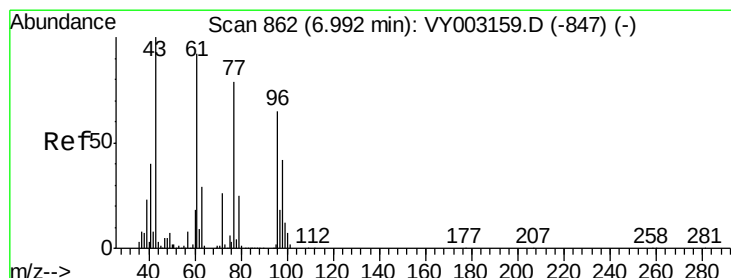
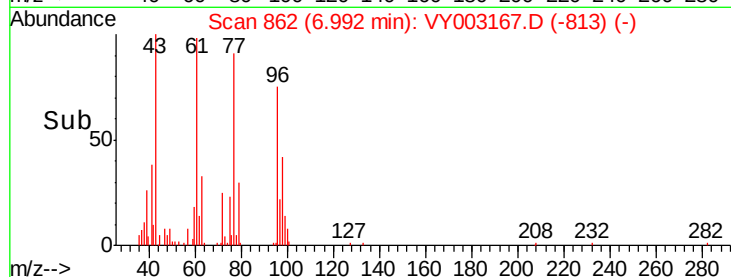
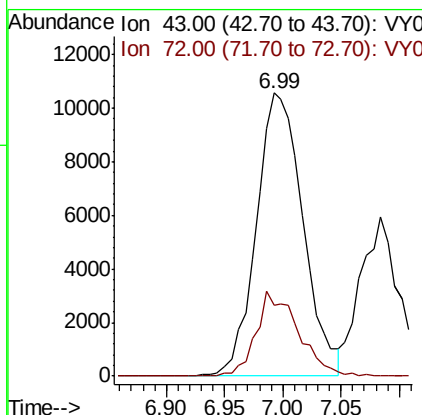
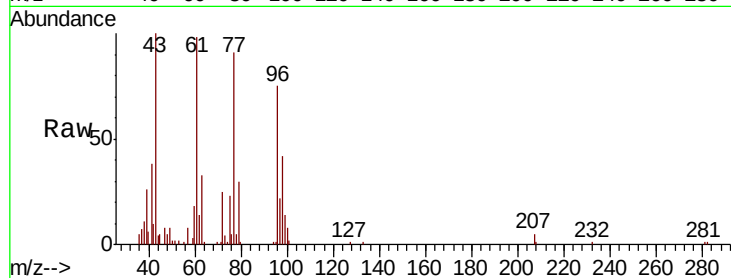




#25
2-Butanone
Concen: 20.056 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

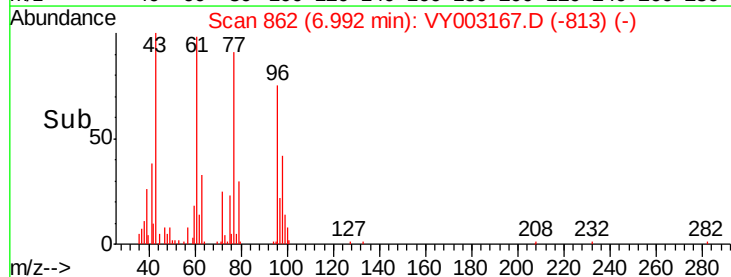
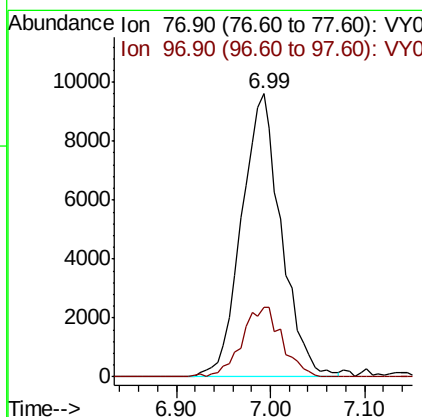
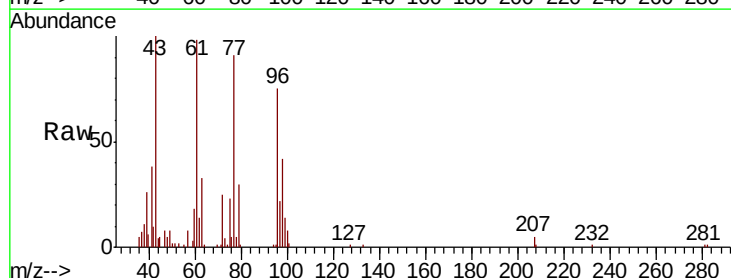
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

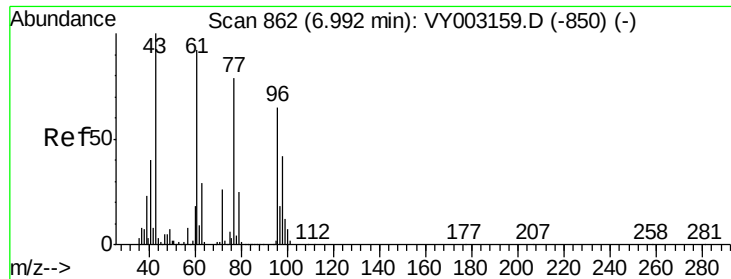
Tot Ion: 43 Resp: 29441
Ion Ratio Lower Upper
43 100
72 25.2 20.9 31.3



#26
2,2-Dichloropropane
Concen: 4.182 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 77 Resp: 28354
Ion Ratio Lower Upper
77 100
97 24.9 11.6 34.7

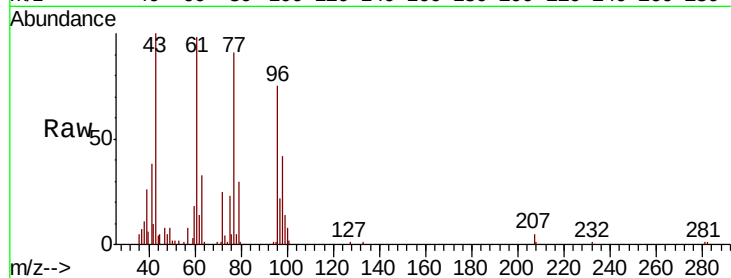




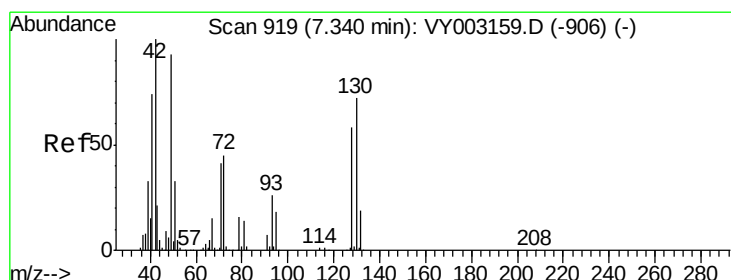
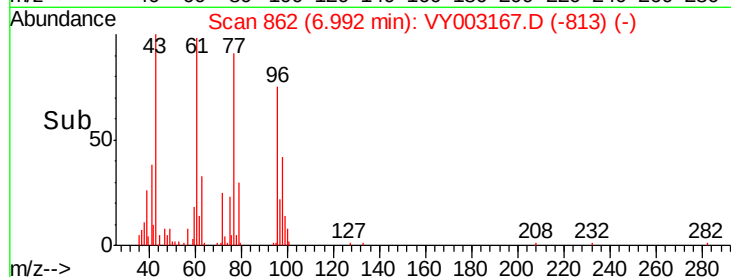
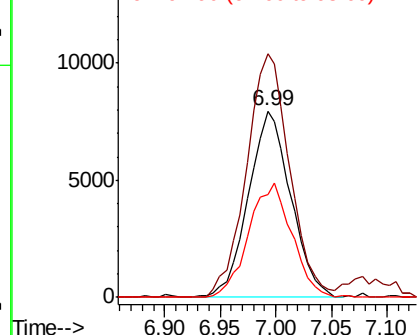
#27
 cis-1,2-Dichloroethene
 Concen: 4.288 ug/l
 RT: 6.99 min Scan# 862
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.2	0.0	281.2
98	62.6	0.0	129.8

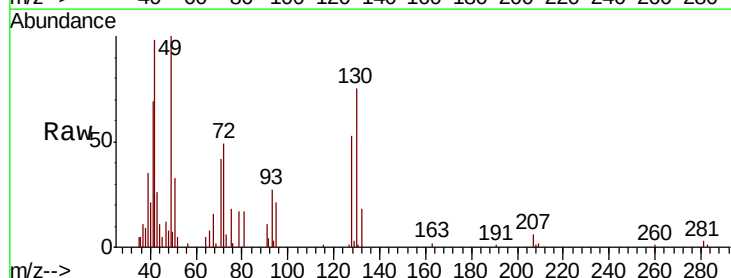


Abundance Ion 95.90 (95.60 to 96.60): VY0
 Ion 60.90 (60.60 to 61.60): VY0
 Ion 97.90 (97.60 to 98.60): VY0

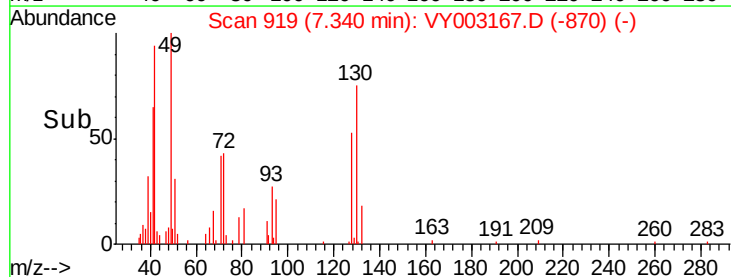
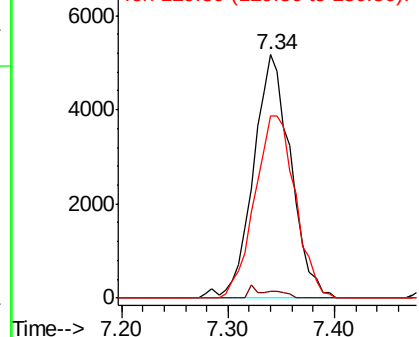


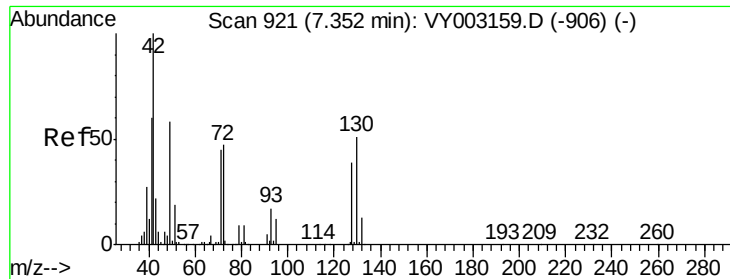
#28
 Bromochloromethane
 Concen: 3.900 ug/l
 RT: 7.34 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	81.6	64.9	97.3



Abundance Ion 48.90 (48.60 to 49.60): VY0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 20.890 ug/l

RT: 7.36 min Scan# 922

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

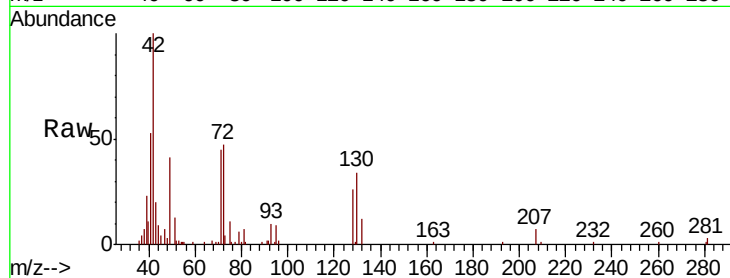
Tot Ion: 42 Resp: 20600

Ion Ratio Lower Upper

42 100

72 45.4 36.7 55.1

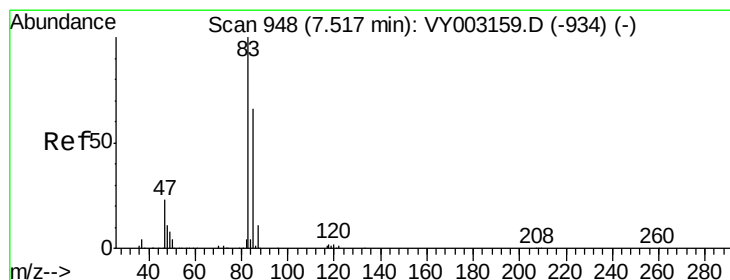
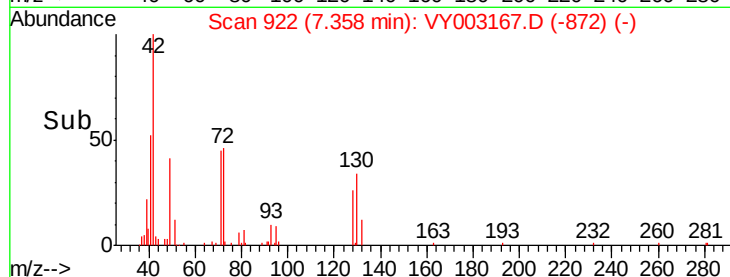
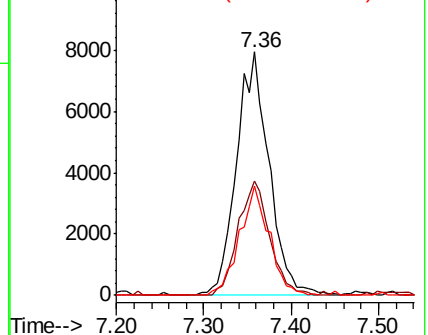
71 40.9 34.2 51.4



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: 4.307 ug/l

RT: 7.52 min Scan# 948

Delta R.T. 0.00 min

Lab File: VY003167.D

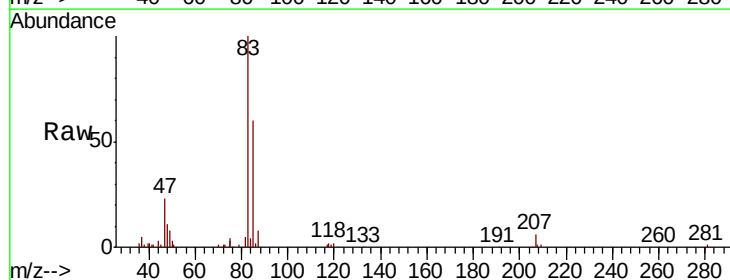
Acq: 10 Jul 2020 16:43

Tgt Ion: 83 Resp: 33397

Ion Ratio Lower Upper

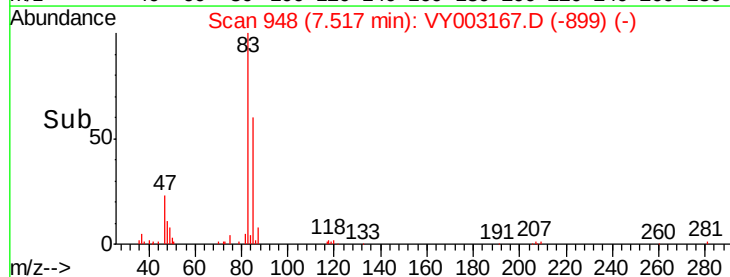
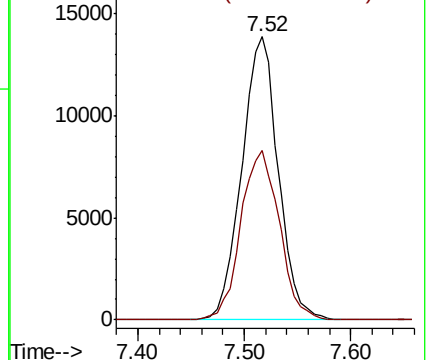
83 100

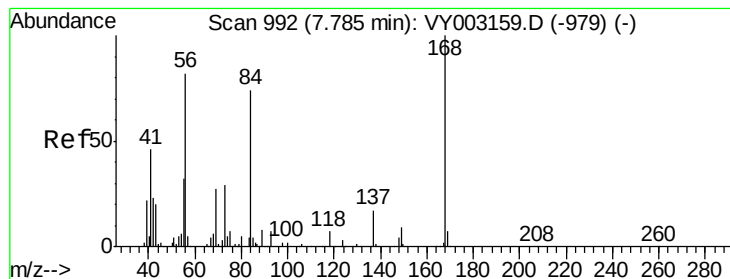
85 59.8 52.6 78.8



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 5.146 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

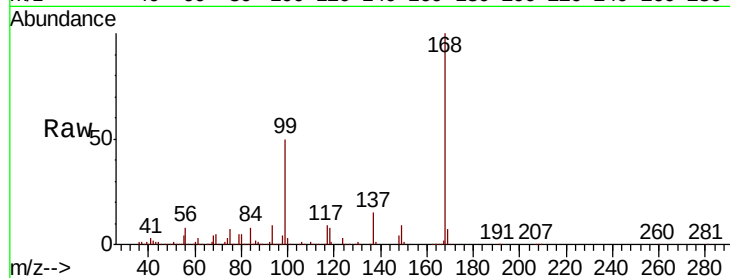
Tot Ion: 56 Resp: 37466

Ion Ratio Lower Upper

56 100

69 64.8 26.7 40.1#

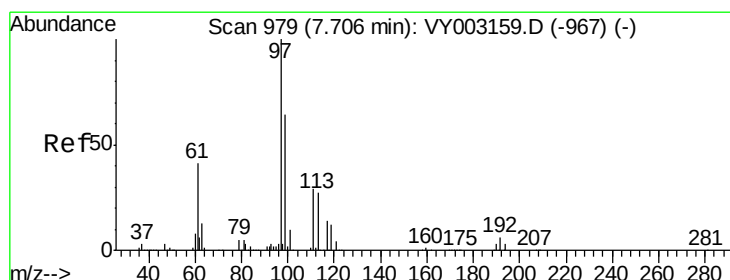
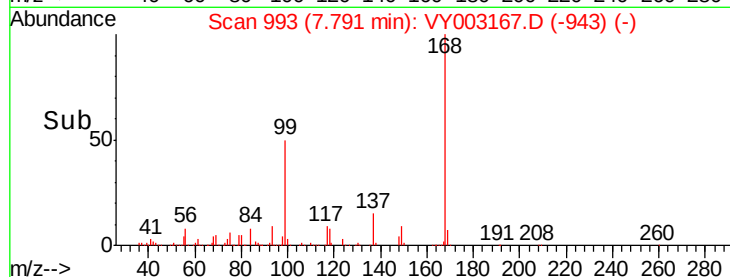
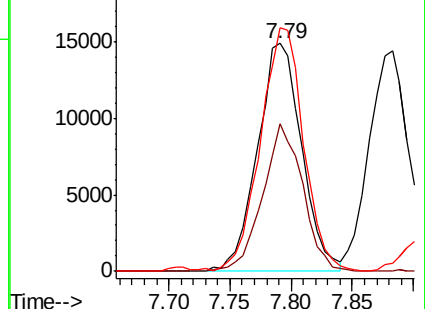
84 106.2 72.3 108.5



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 4.204 ug/l

RT: 7.71 min Scan# 980

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

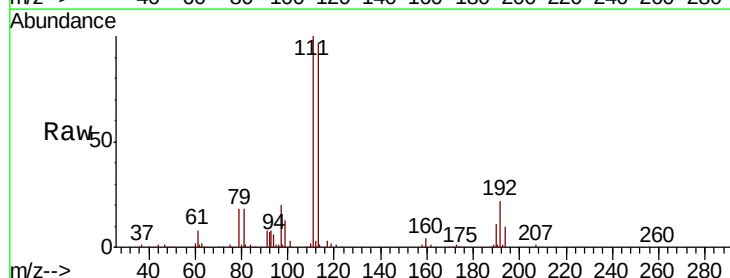
Tgt Ion: 97 Resp: 29346

Ion Ratio Lower Upper

97 100

99 65.0 52.1 78.1

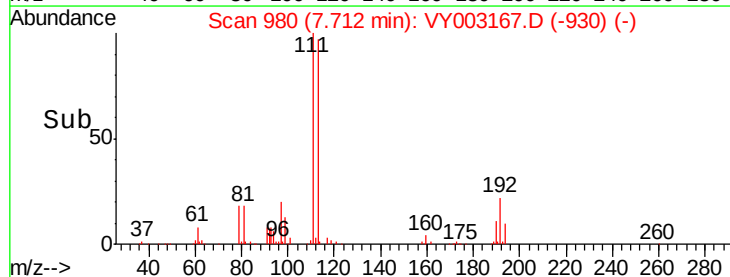
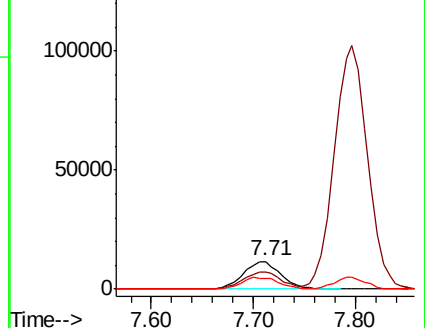
61 42.7 33.9 50.9

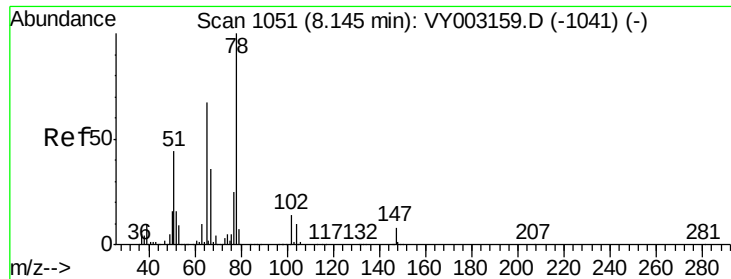


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

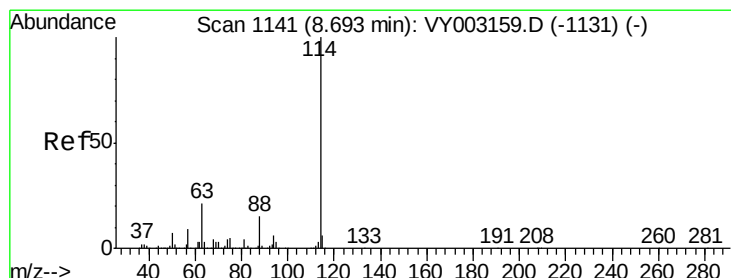
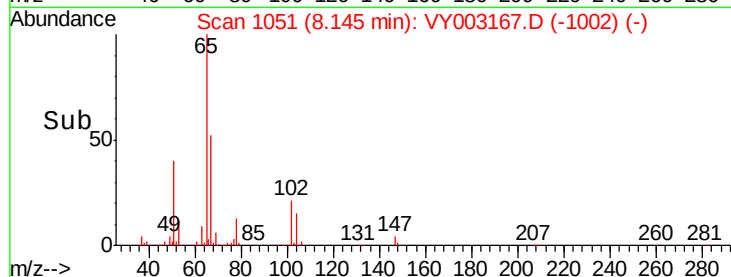
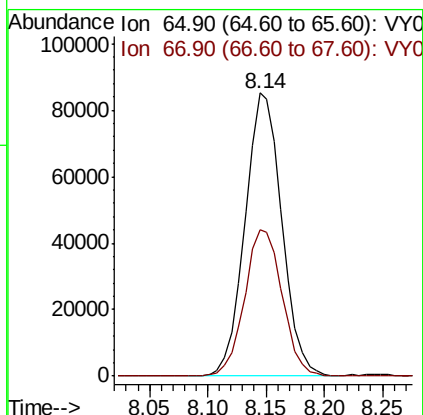
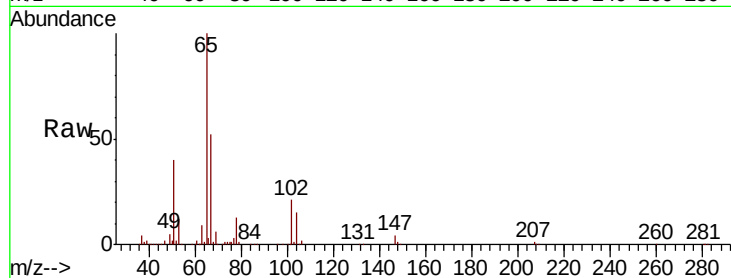




#33
 1,2-Dichloroethane-d4
 Concen: 46.869 ug/l
 RT: 8.14 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

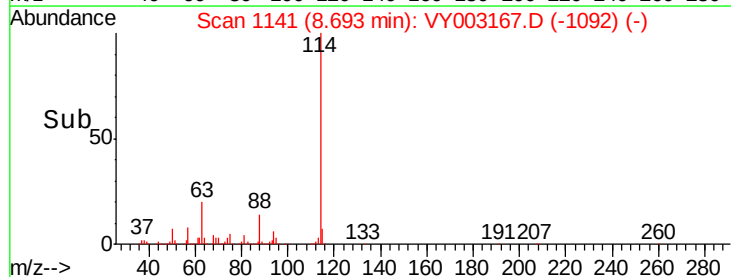
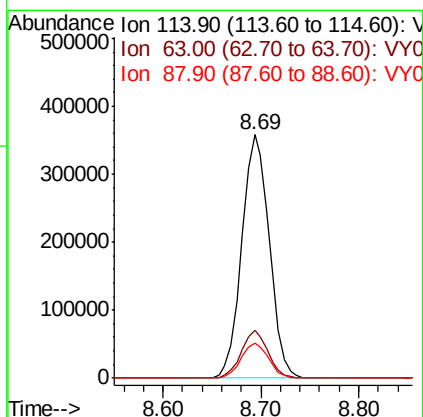
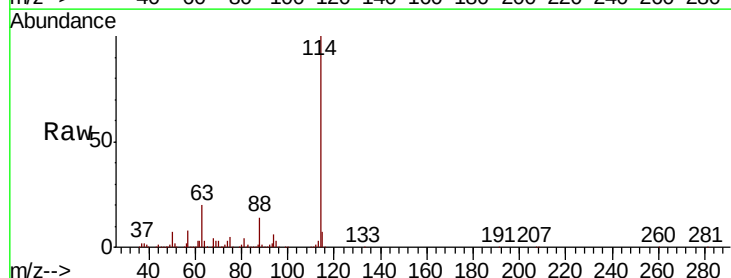
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

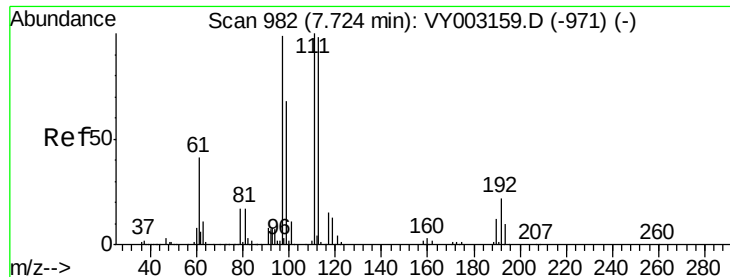
Tot Ion: 65 Resp: 187593
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 114 Resp: 697013
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.2
 88 14.5 0.0 30.2

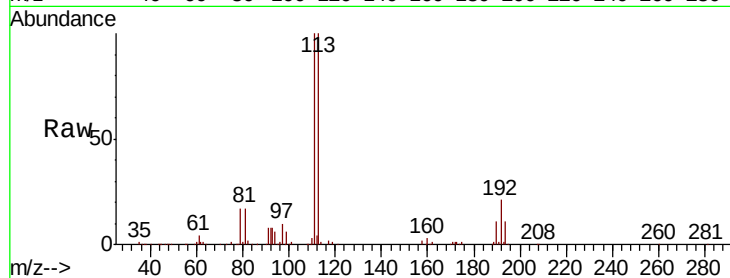




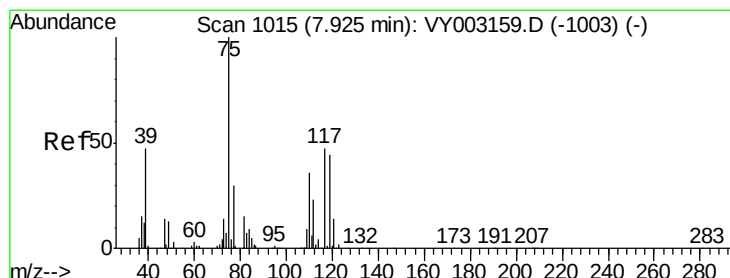
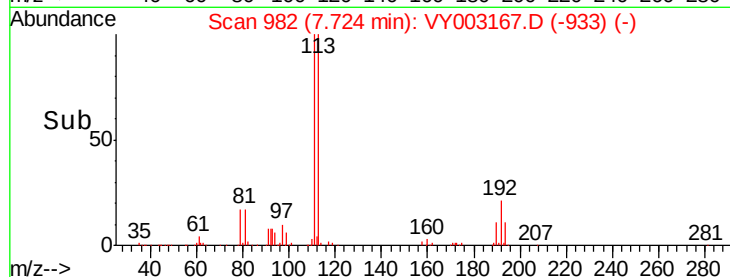
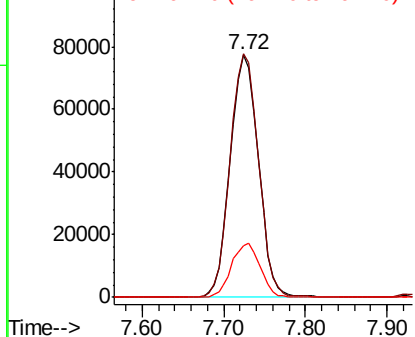
#35
Dibromofluoromethane
Concen: 46.049 ug/l
RT: 7.72 min Scan# 982
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion:113 Resp: 184708
Ion Ratio Lower Upper
113 100
111 101.0 82.1 123.1
192 22.7 18.8 28.2

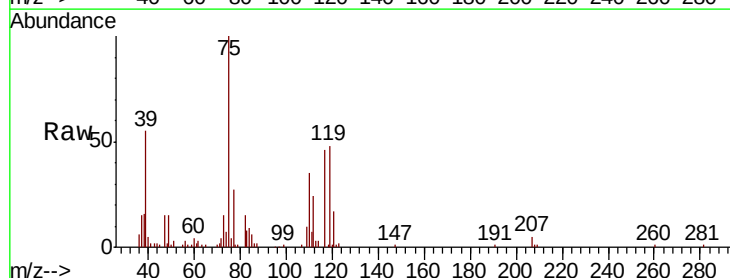


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

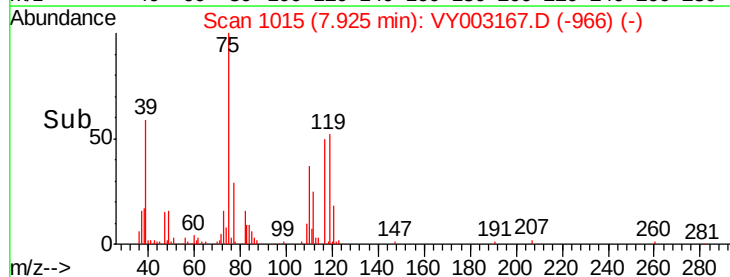
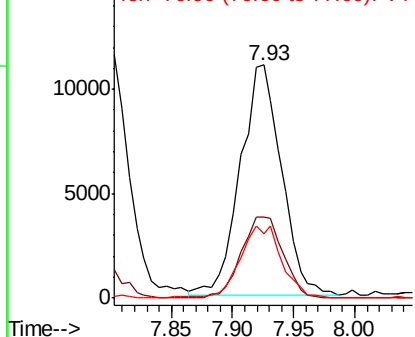


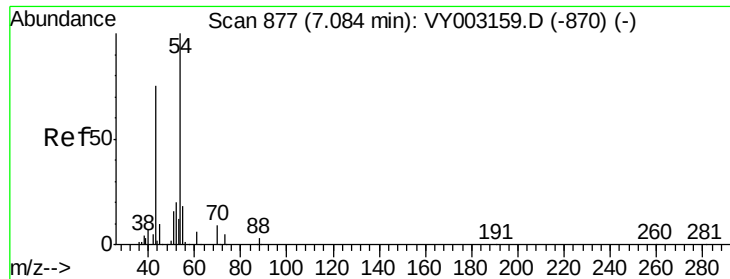
#36
1,1-Dichloropropene
Concen: 4.093 ug/l
RT: 7.93 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 75 Resp: 25859
Ion Ratio Lower Upper
75 100
110 35.6 18.1 54.1
77 31.7 24.8 37.2



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VY0

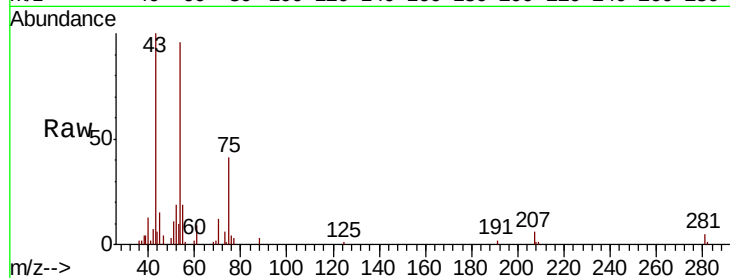




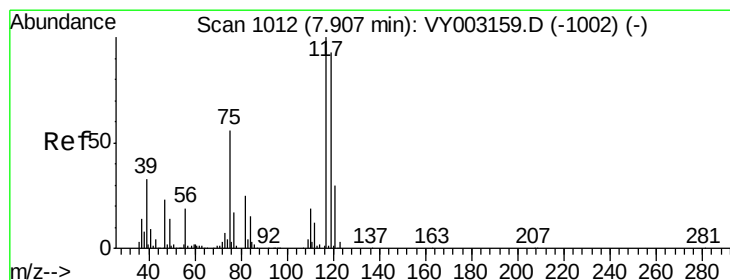
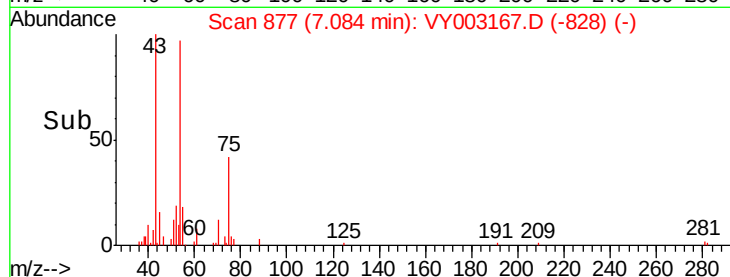
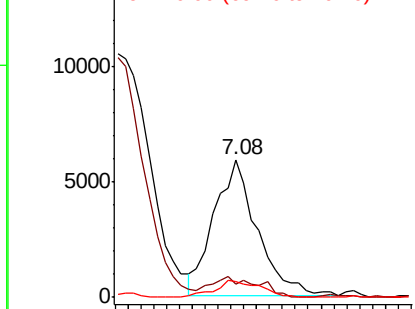
#37
Ethyl Acetate
Concen: 4.090 ug/l
RT: 7.08 min Scan# 877
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 13915
Ion Ratio Lower Upper
43 100
61 16.5 11.8 17.6
70 12.8 8.6 13.0

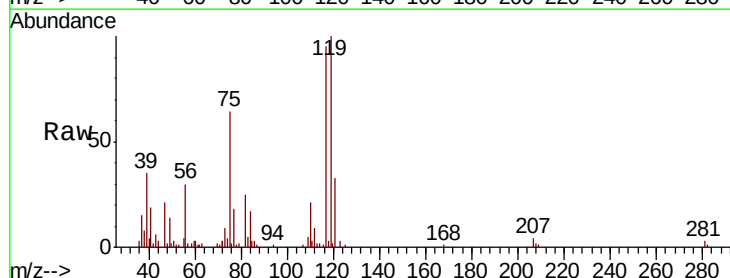


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

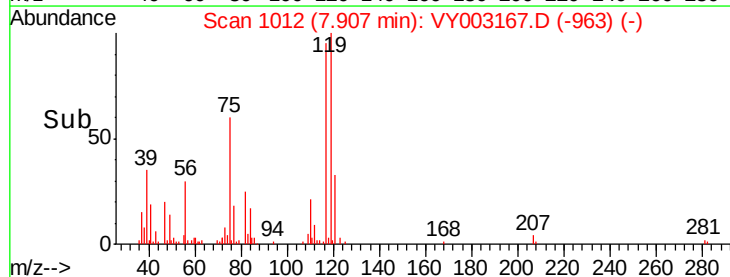
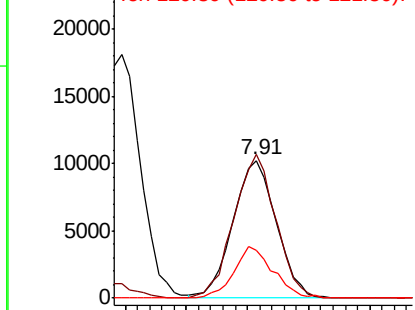


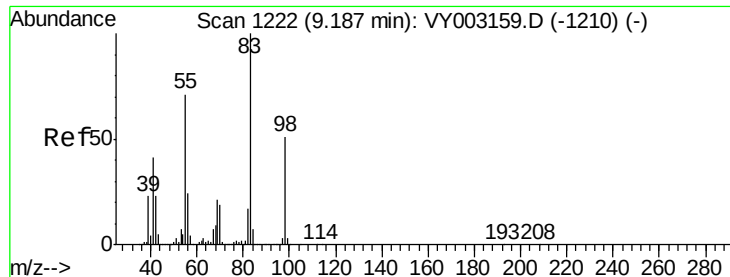
#38
Carbon Tetrachloride
Concen: 3.858 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 117 Resp: 25160
Ion Ratio Lower Upper
117 100
119 105.1 74.5 111.7
121 34.4 24.2 36.2



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

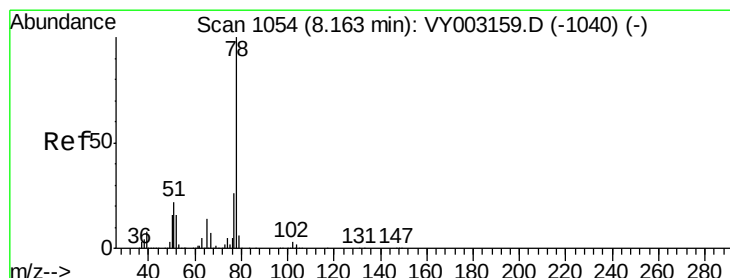
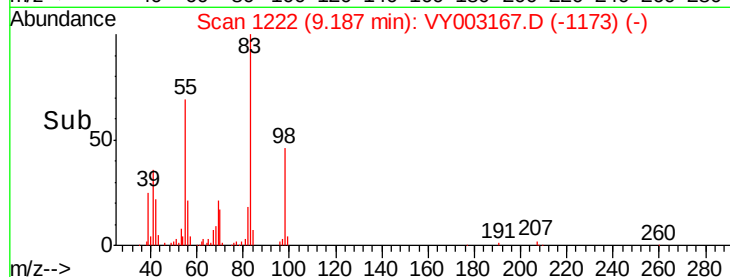
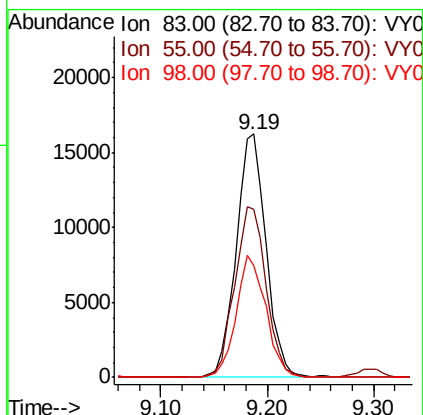
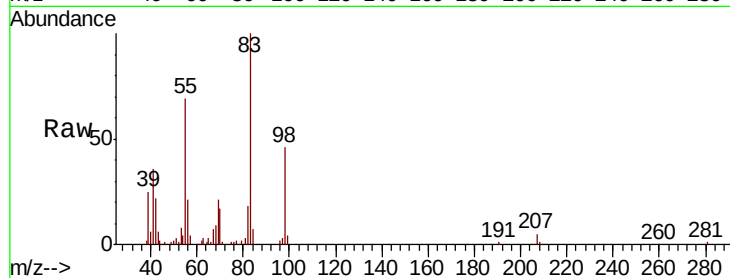




#39
Methylvlcyclohexane
Concen: 4.034 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

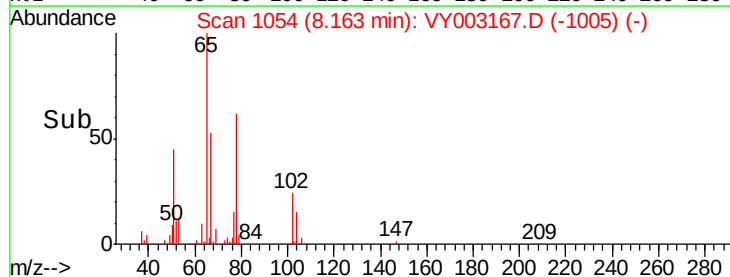
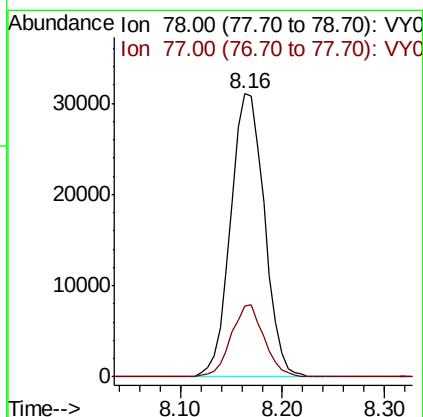
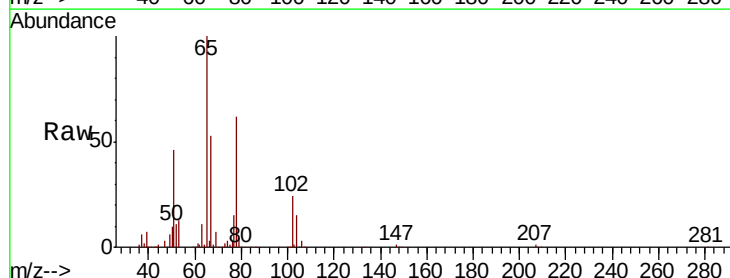
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

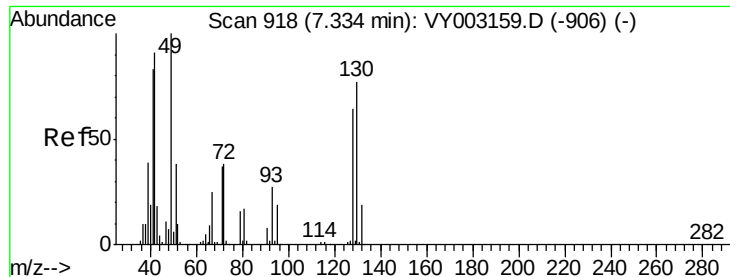
Tot Ion: 83 Resp: 32013
Ion Ratio Lower Upper
83 100
55 69.2 57.2 85.8
98 46.0 41.0 61.6



#40
Benzene
Concen: 4.090 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 78 Resp: 71146
Ion Ratio Lower Upper
78 100
77 25.0 20.7 31.1

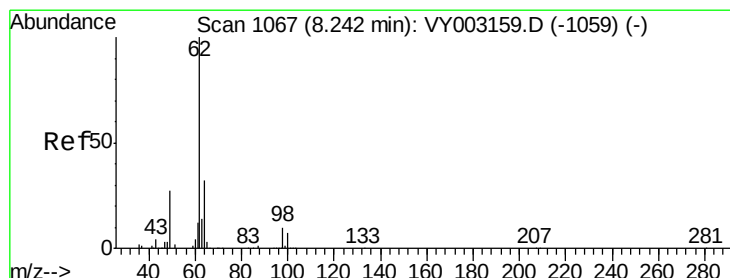
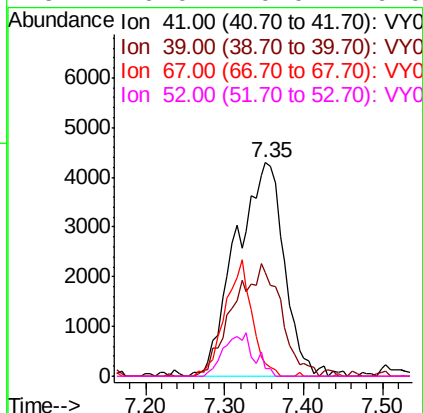
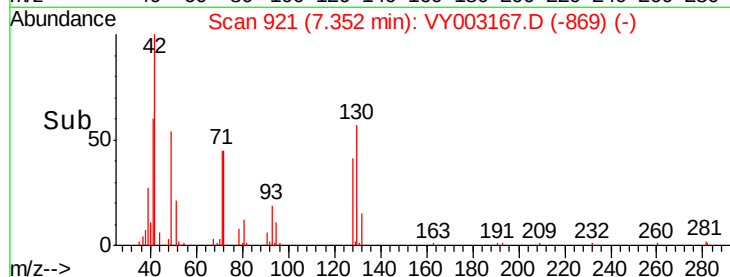
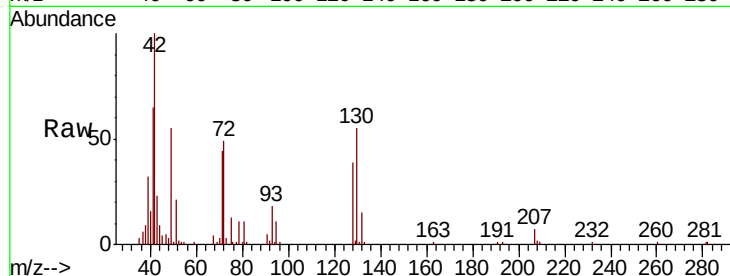




#41
Methacrylonitrile
Concen: 8.909 ug/l
RT: 7.35 min Scan# 921
Delta R.T. 0.02 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

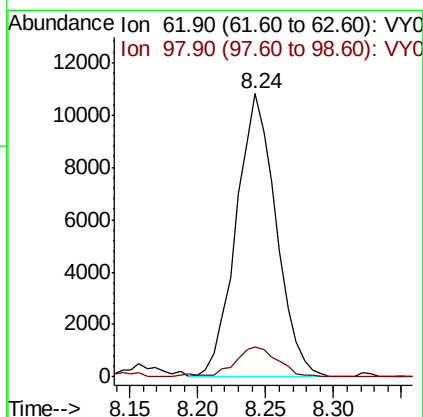
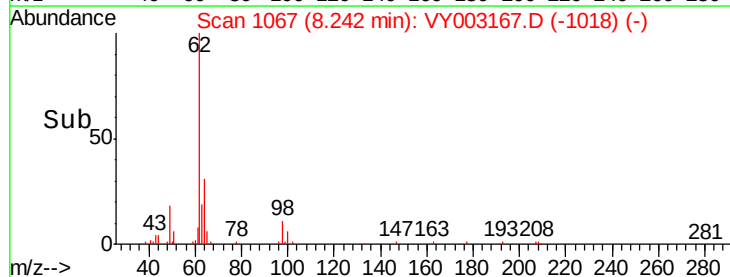
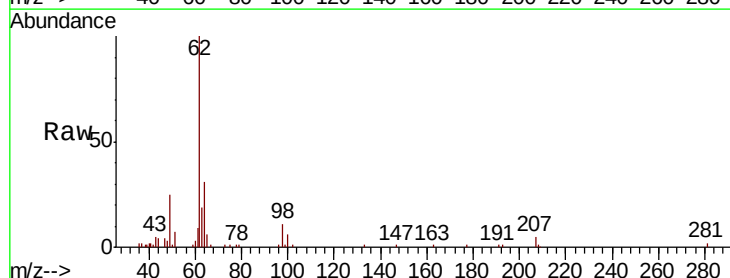
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

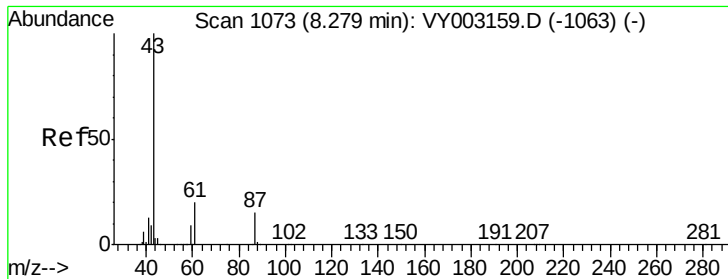
Tot Ion: 41 Resp: 18255
Ion Ratio Lower Upper
41 100
39 52.4 83.3 124.9#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#42
1,2-Dichloroethane
Concen: 4.139 ug/l
RT: 8.24 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 62 Resp: 22164
Ion Ratio Lower Upper
62 100
98 11.1 0.0 19.0





#43

Isopropyl Acetate

Concen: 3.879 ug/l

RT: 8.27 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

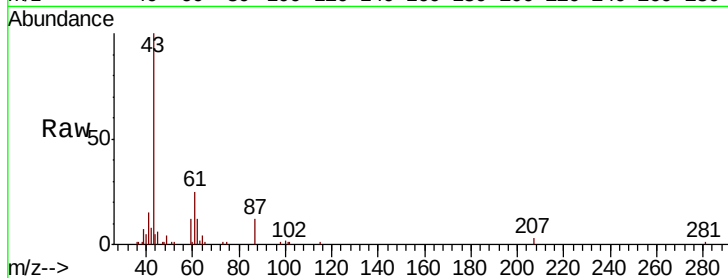
Tot Ion: 43 Resp: 25544

Ion Ratio Lower Upper

43 100

61 32.0 23.7 35.5

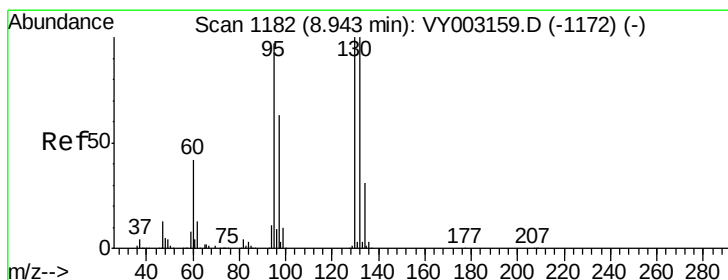
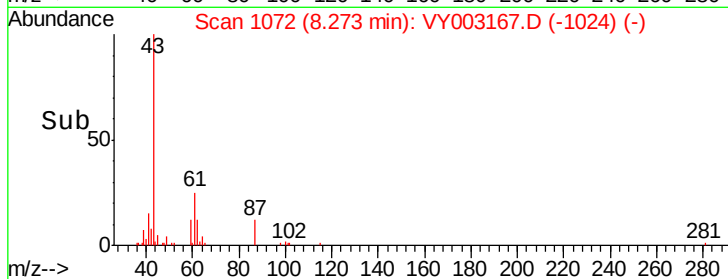
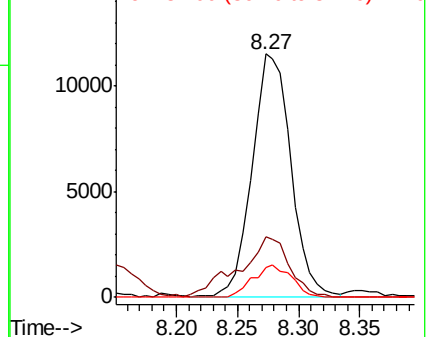
87 13.2 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VY003167.D (-1024) (-)

Ion 61.00 (60.70 to 61.70): VY003167.D (-1024) (-)

Ion 87.00 (86.70 to 87.70): VY003167.D (-1024) (-)



#44

Trichloroethene

Concen: 4.099 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VY003167.D

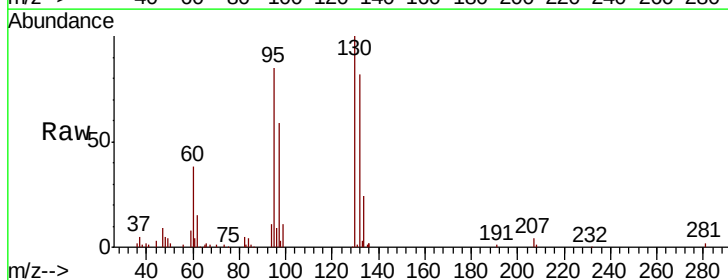
Acq: 10 Jul 2020 16:43

Tgt Ion: 130 Resp: 21858

Ion Ratio Lower Upper

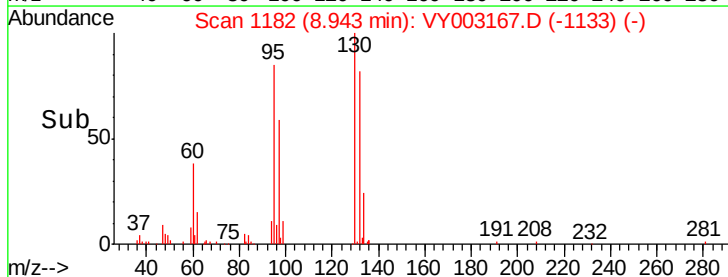
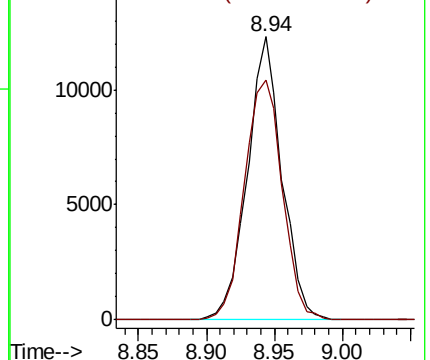
130 100

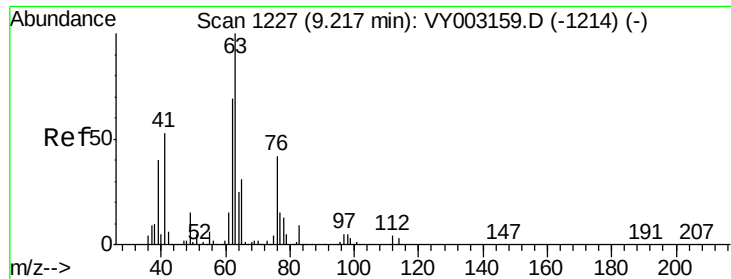
95 84.5 0.0 193.8



Abundance Ion 129.80 (129.50 to 130.50): VY003167.D (-1133) (-)

Ion 94.90 (94.60 to 95.60): VY003167.D (-1133) (-)

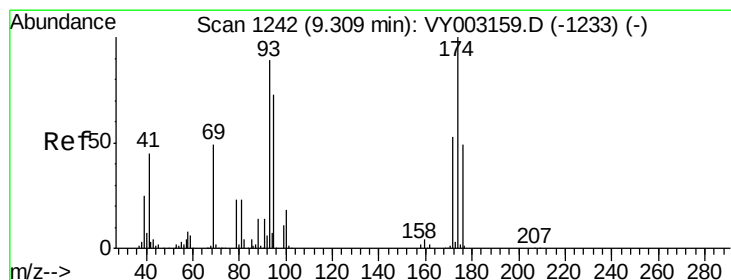
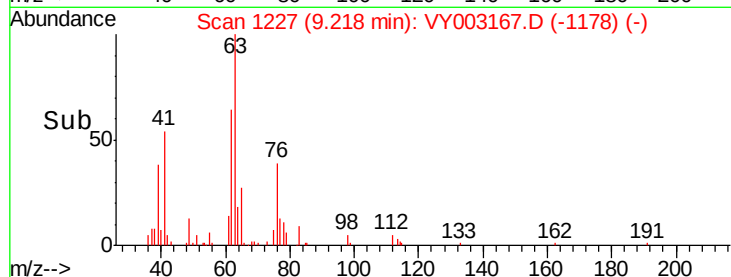
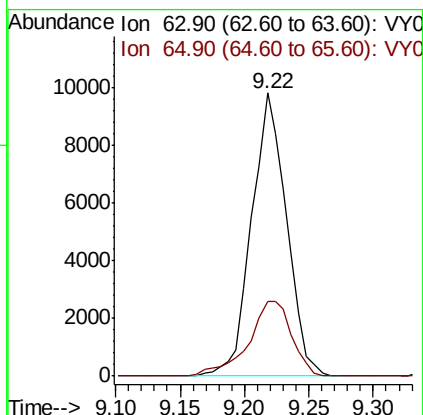
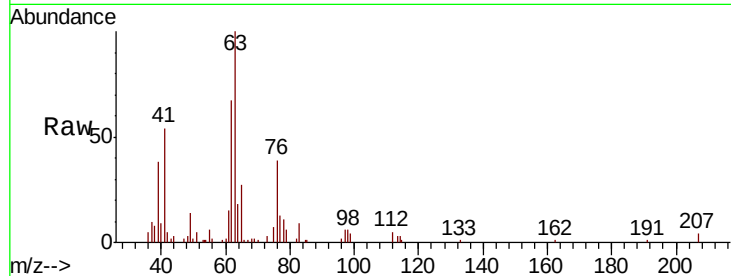




#45
 1,2-Dichloropropane
 Concen: 4.088 ug/l
 RT: 9.22 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

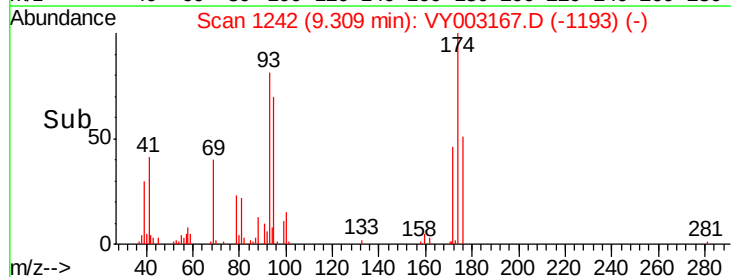
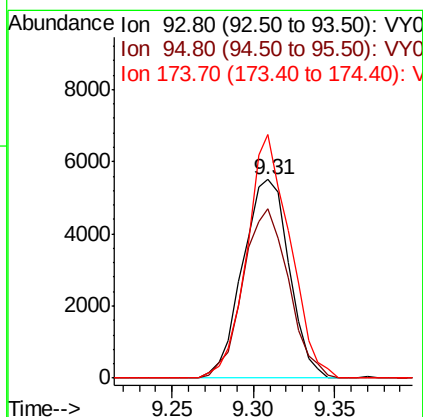
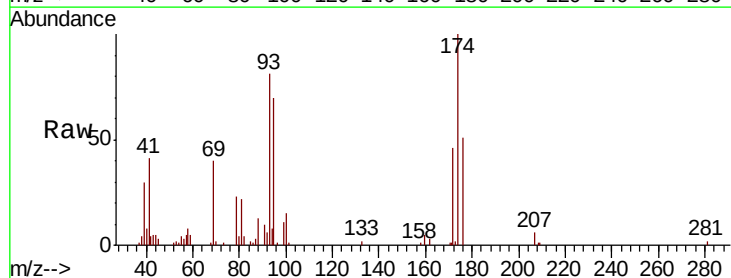
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

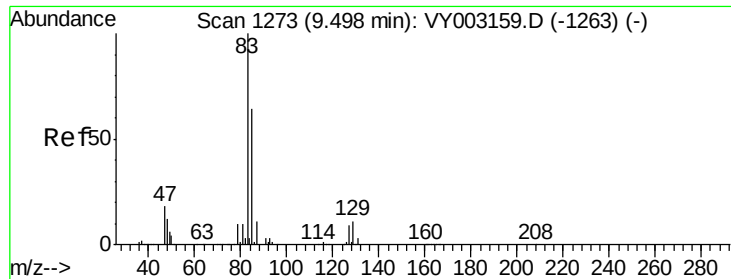
Tot Ion: 63 Resp: 18401
 Ion Ratio Lower Upper
 63 100
 65 26.6 25.0 37.4



#46
 Dibromomethane
 Concen: 4.137 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 93 Resp: 10876
 Ion Ratio Lower Upper
 93 100
 95 84.1 66.6 99.8
 174 113.6 90.2 135.4





#47

Bromodichloromethane

Concen: 4.017 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

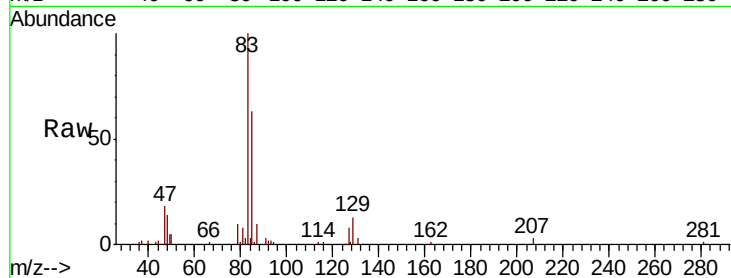
Tot Ion: 83 Resp: 25114

Ion Ratio Lower Upper

83 100

85 62.8 50.9 76.3

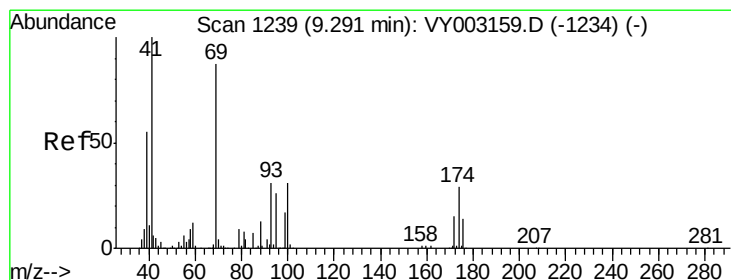
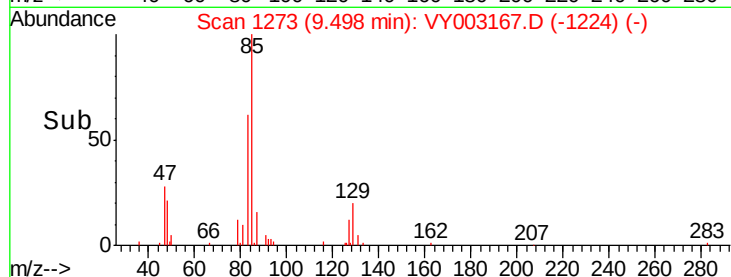
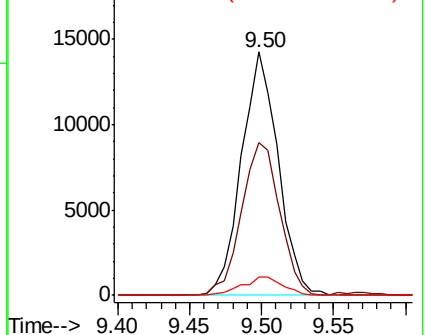
127 7.7 7.0 10.4



Abundance Ion 82.90 (82.60 to 83.60): VY003167.D (-1224) (-)

Ion 84.90 (84.60 to 85.60): VY003167.D (-1224) (-)

Ion 126.80 (126.50 to 127.50): VY003167.D (-1224) (-)



#48

Methyl methacrylate

Concen: 3.774 ug/l

RT: 9.30 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

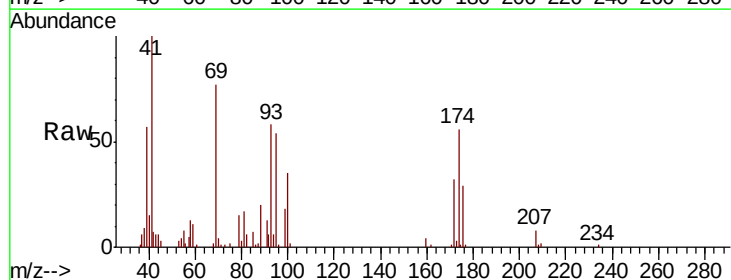
Tgt Ion: 41 Resp: 11110

Ion Ratio Lower Upper

41 100

69 94.0 74.5 111.7

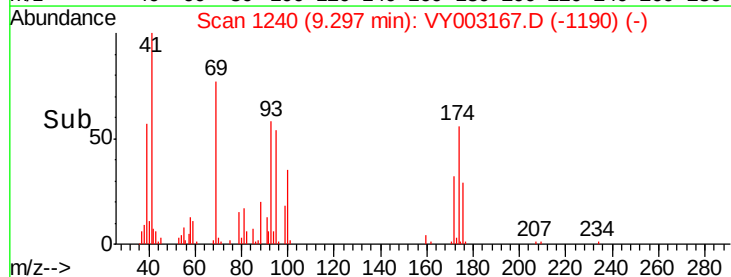
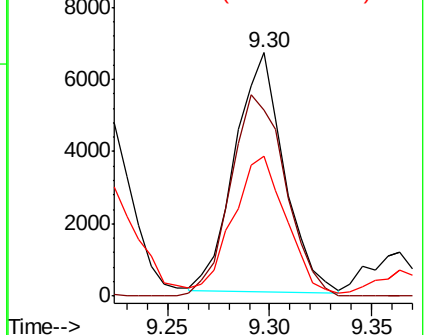
39 61.3 47.5 71.3

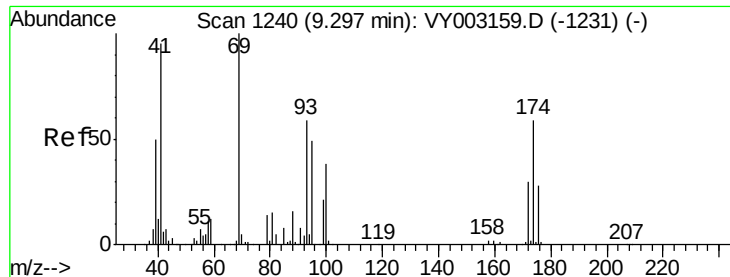


Abundance Ion 41.00 (40.70 to 41.70): VY003167.D (-1190) (-)

Ion 69.00 (68.70 to 69.70): VY003167.D (-1190) (-)

Ion 39.00 (38.70 to 39.70): VY003167.D (-1190) (-)

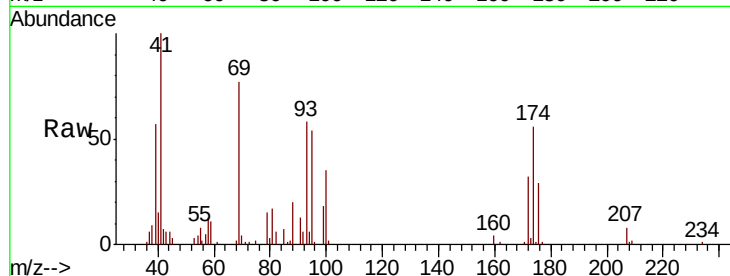




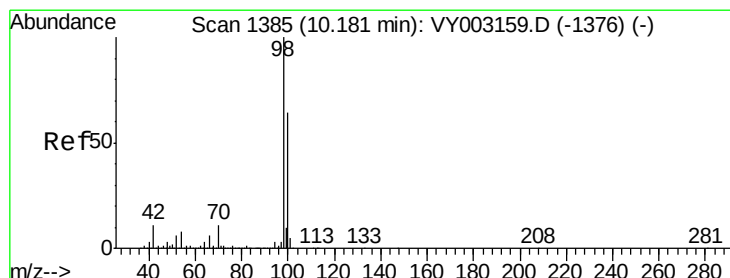
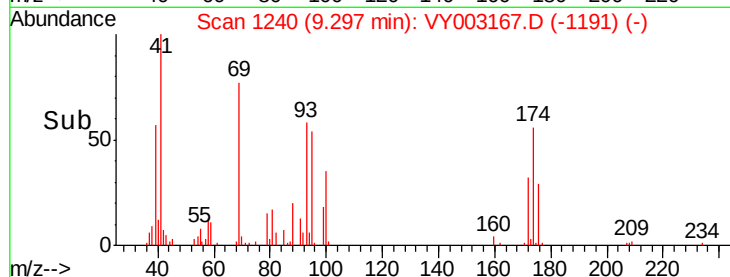
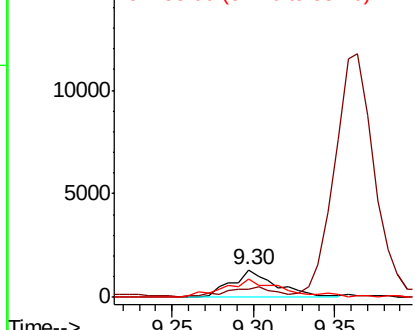
#49
1,4-Dioxane
Concen: 76.280 ug/l
RT: 9.30 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 88 Resp: 2545
Ion Ratio Lower Upper
88 100
43 41.2 25.6 38.4#
58 77.9 47.8 71.6#

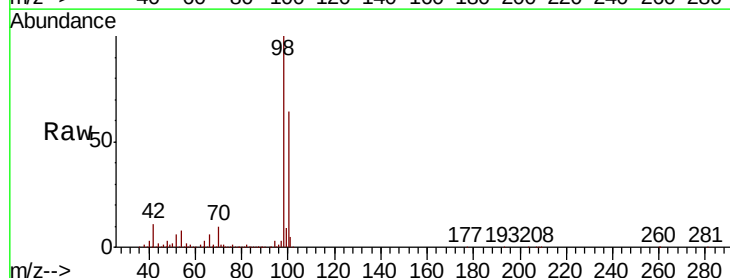


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

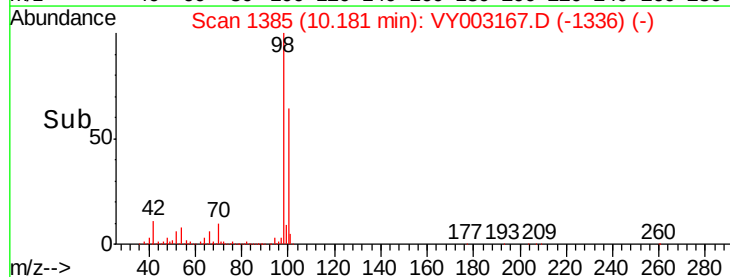
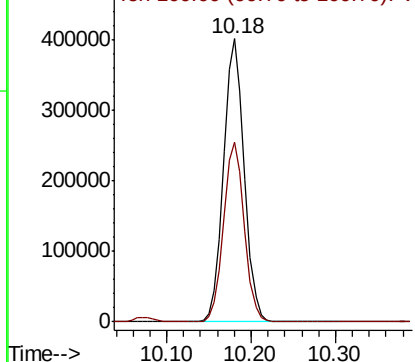


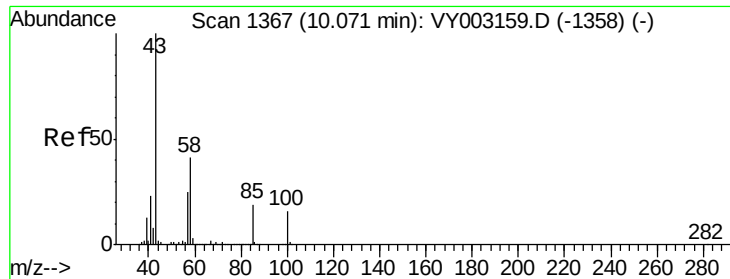
#50
Toluene-d8
Concen: 45.364 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 98 Resp: 676499
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



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

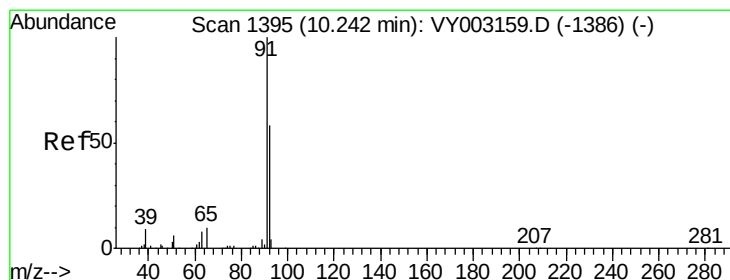
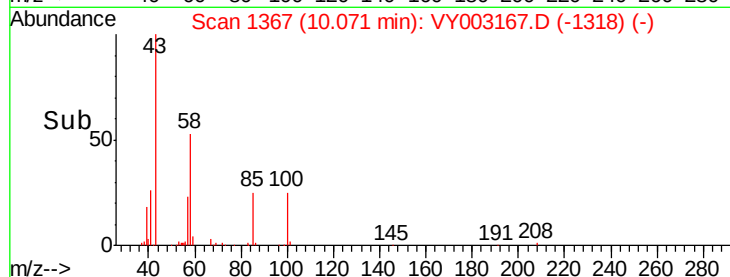
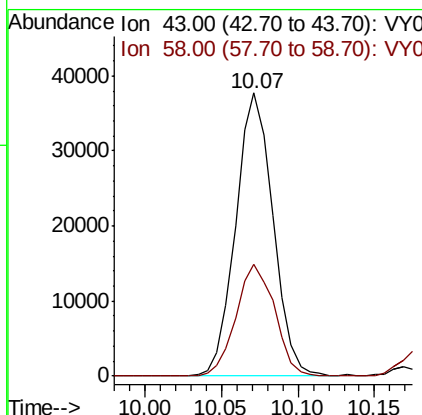
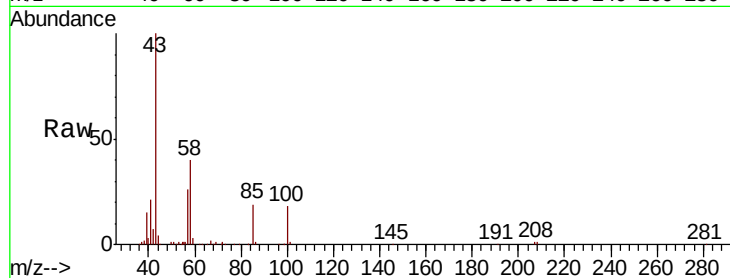




#51
4-Methyl-2-Pentanone
Concen: 18.662 ug/l
RT: 10.07 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

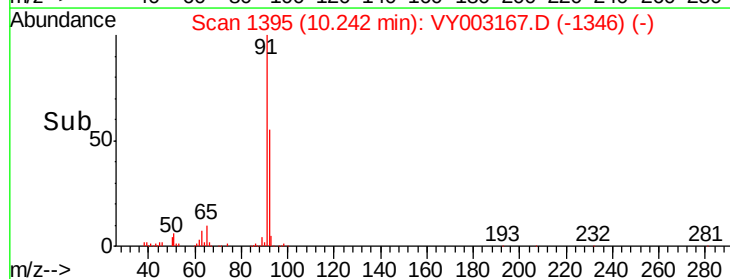
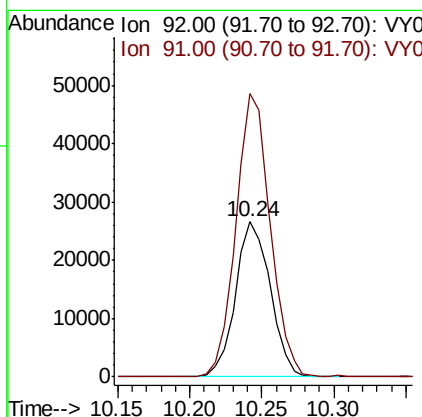
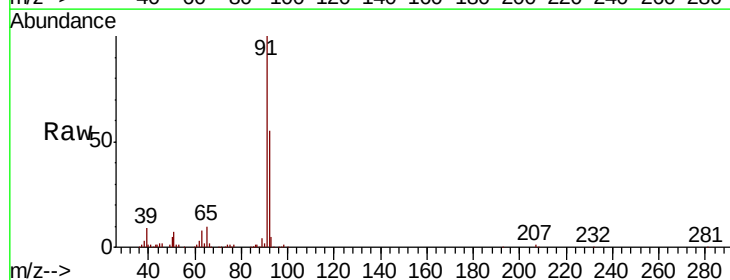
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

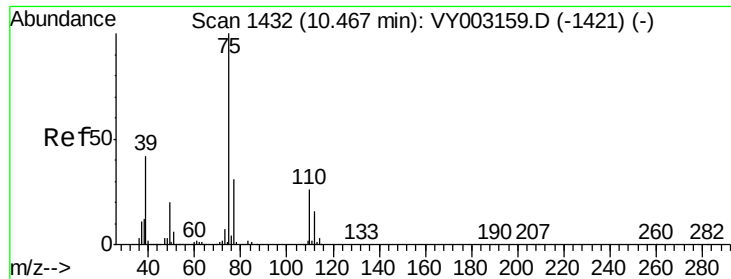
Tot Ion: 43 Resp: 63875
Ion Ratio Lower Upper
43 100
58 41.0 32.7 49.1



#52
Toluene
Concen: 4.026 ug/l
RT: 10.24 min Scan# 1395
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 92 Resp: 44758
Ion Ratio Lower Upper
92 100
91 179.5 139.7 209.5





#53

t-1,3-Dichloropropene

Concen: 3.906 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

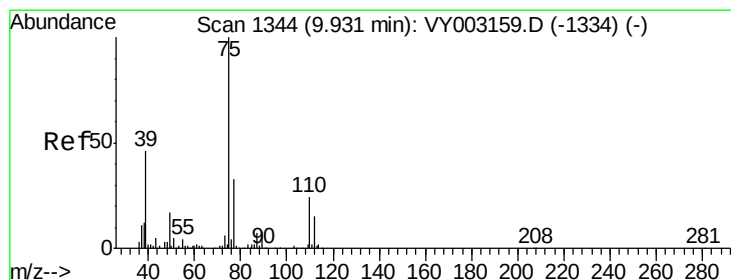
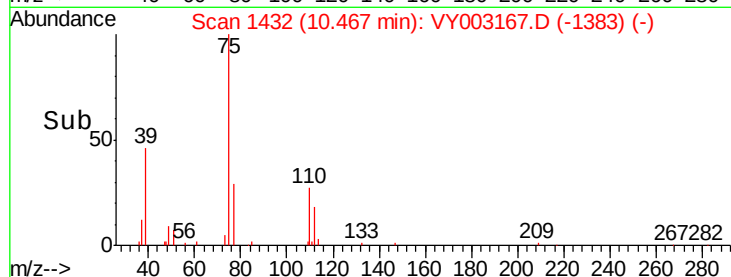
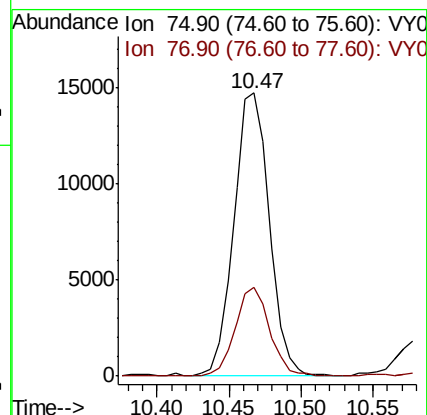
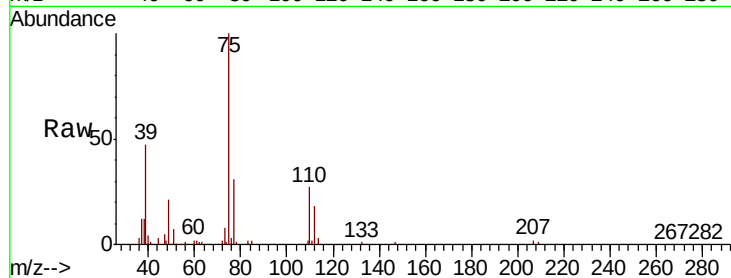
MDL-SOIL-03-QT3-2020

Tot Ion: 75 Resp: 25300

Ion Ratio Lower Upper

75 100

77 31.2 25.2 37.8



#54

cis-1,3-Dichloropropene

Concen: 3.861 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

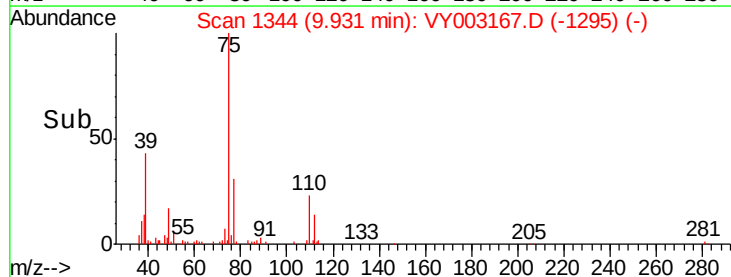
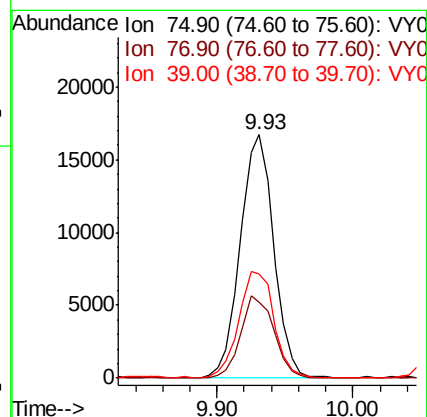
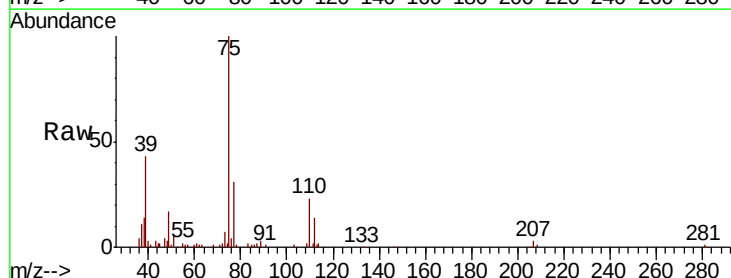
Tgt Ion: 75 Resp: 28816

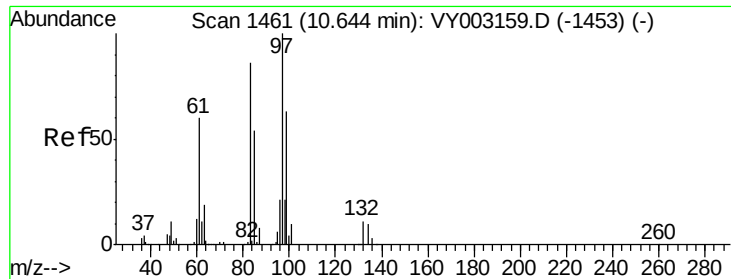
Ion Ratio Lower Upper

75 100

77 31.2 26.7 40.1

39 42.8 37.0 55.6





#55

1,1,2-Trichloroethane

Concen: 3.900 ug/l

RT: 10.64 min Scan# 1461

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 97 Resp: 14529

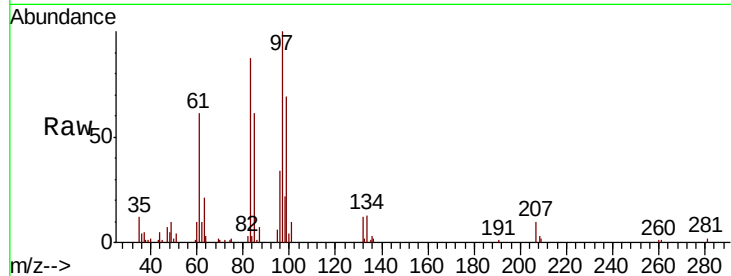
Ion Ratio Lower Upper

97 100

83 86.7 68.8 103.2

85 60.6 43.1 64.7

99 69.0 50.8 76.2

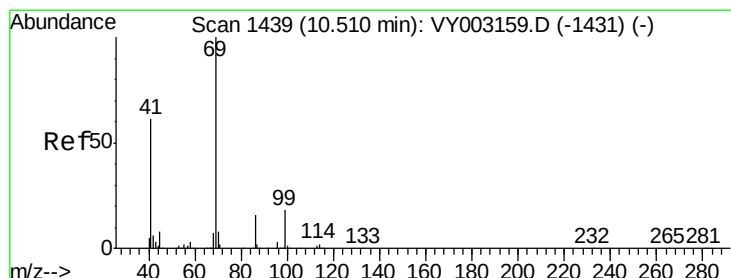
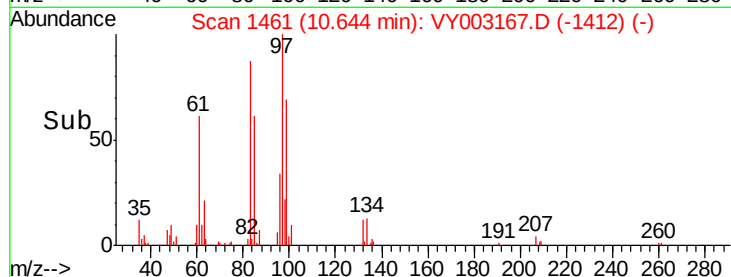
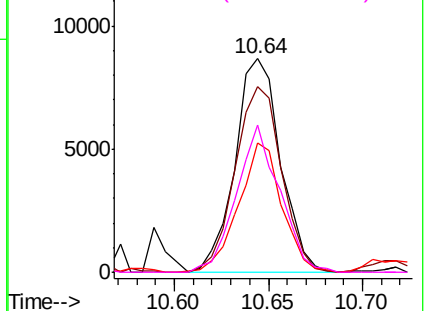


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#56

Ethyl methacrylate

Concen: 3.689 ug/l

RT: 10.51 min Scan# 1439

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

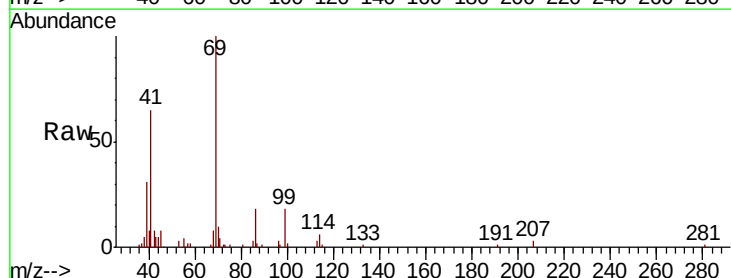
Tgt Ion: 69 Resp: 18683

Ion Ratio Lower Upper

69 100

41 63.6 50.0 75.0

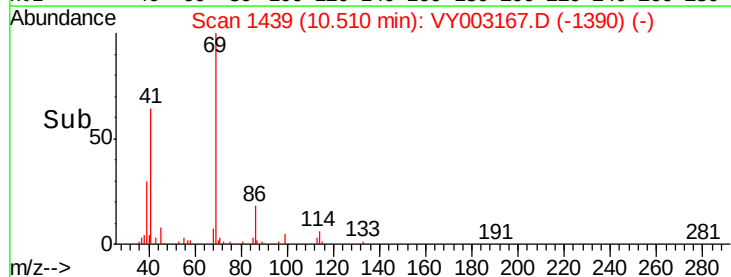
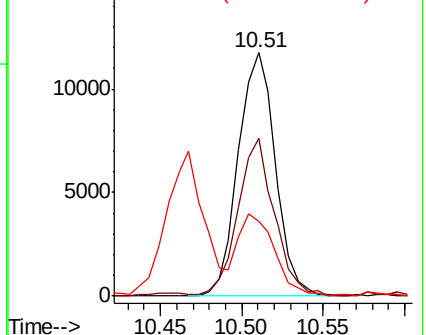
39 32.4 27.6 41.4

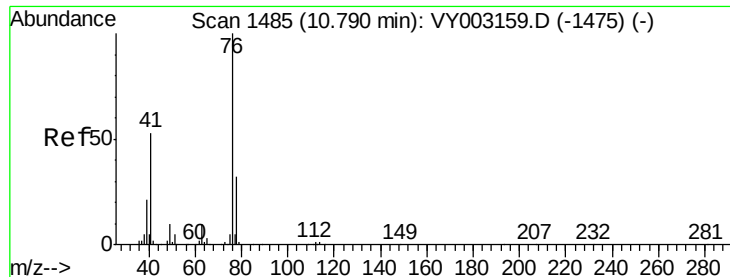


Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





#57

1,3-Dichloropropane

Concen: 4.045 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

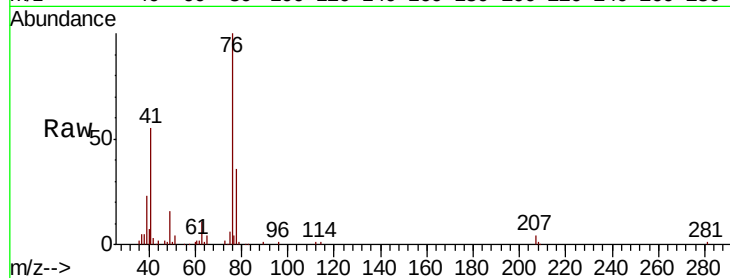
MDL-SOIL-03-QT3-2020

Tot Ion: 76 Resp: 25552

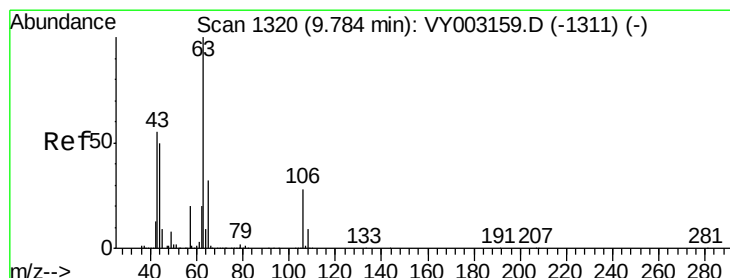
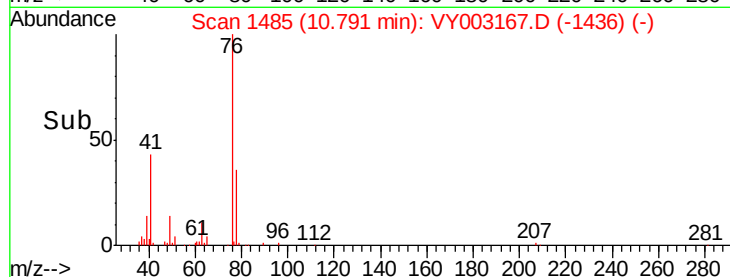
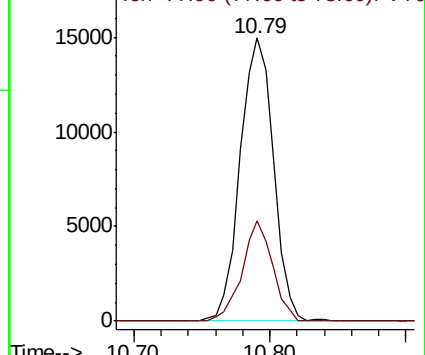
Ion Ratio Lower Upper

76 100

78 32.4 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VY0
Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 19.052 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VY003167.D

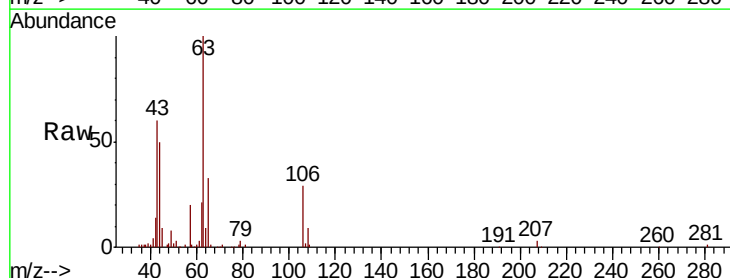
Acq: 10 Jul 2020 16:43

Tgt Ion: 63 Resp: 49209

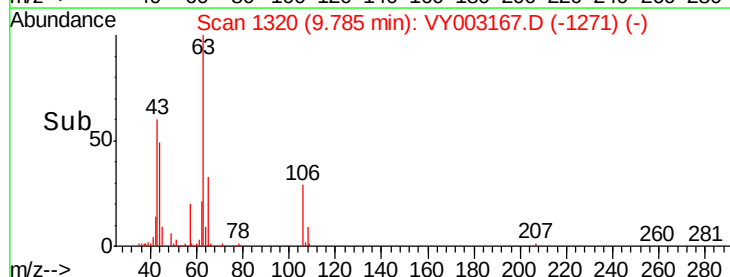
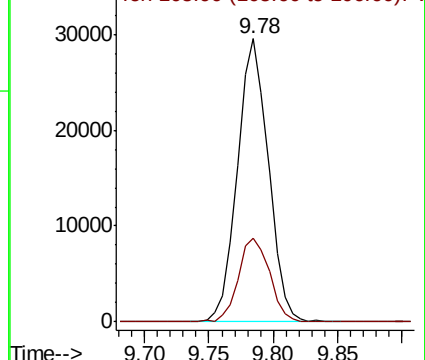
Ion Ratio Lower Upper

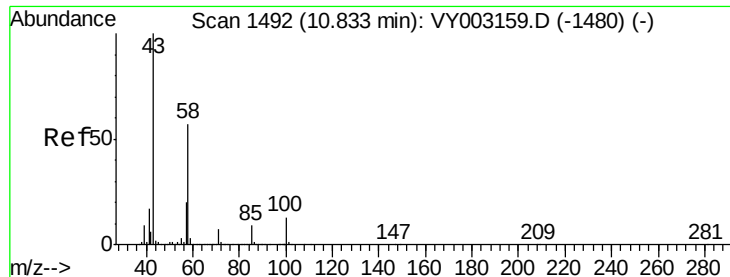
63 100

106 29.9 22.9 34.3



Abundance Ion 62.90 (62.60 to 63.60): VY0
Ion 105.90 (105.60 to 106.60): V

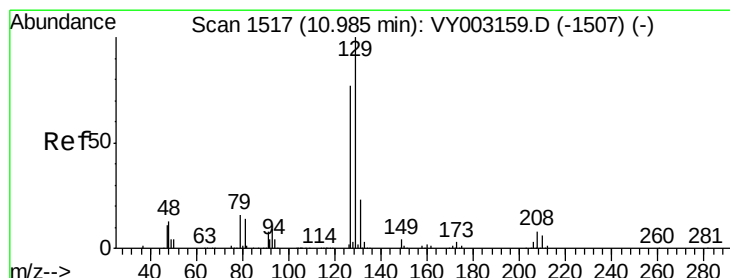
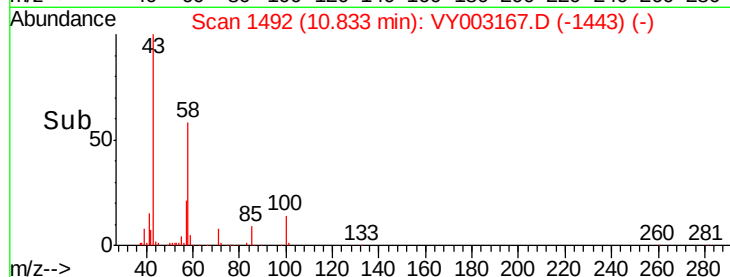
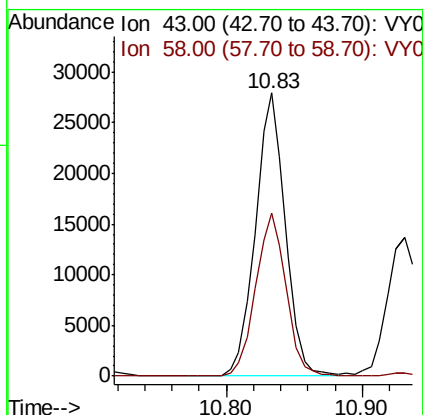
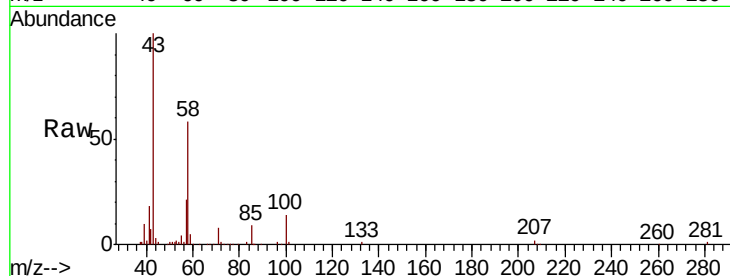




#59
2-Hexanone
Concen: 18.036 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

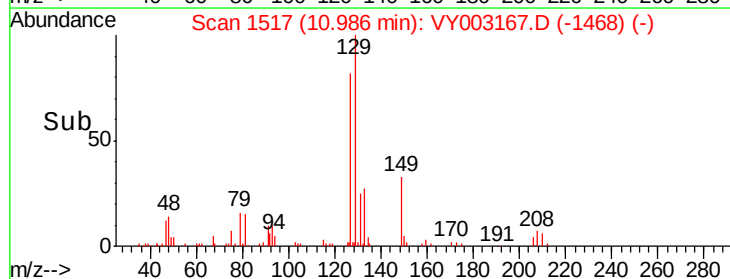
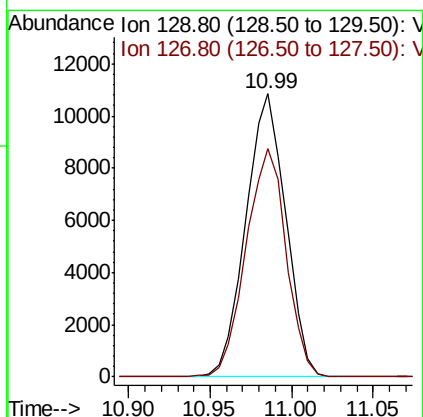
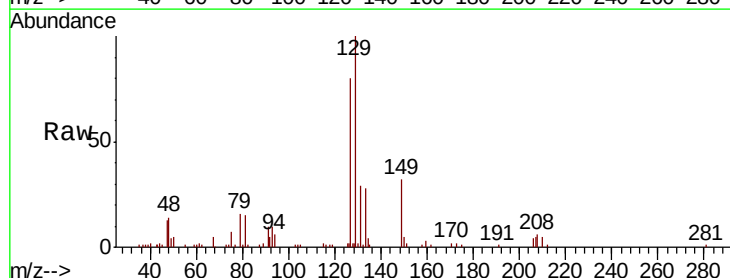
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

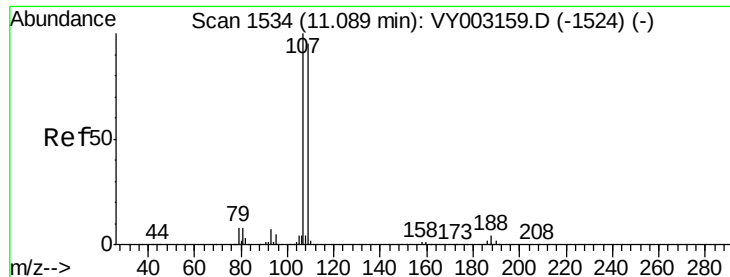
Tot Ion: 43 Resp: 43094
Ion Ratio Lower Upper
43 100
58 58.5 28.3 85.0



#60
Dibromochloromethane
Concen: 3.949 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 129 Resp: 18500
Ion Ratio Lower Upper
129 100
127 81.1 38.5 115.5

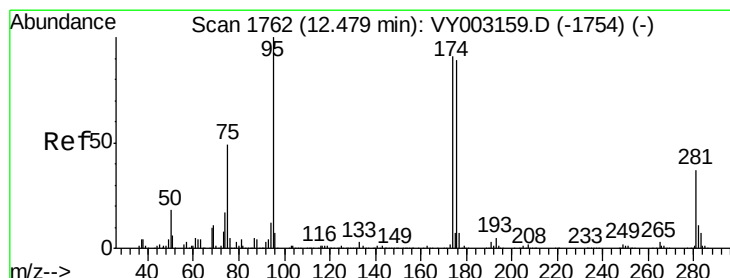
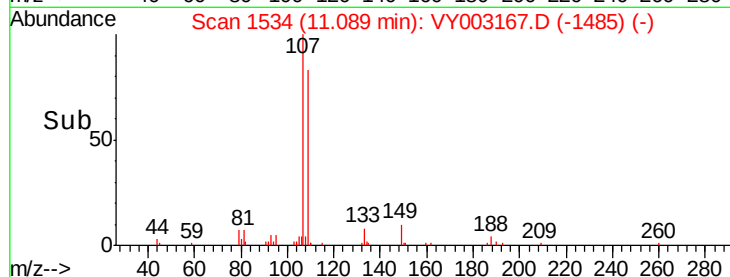
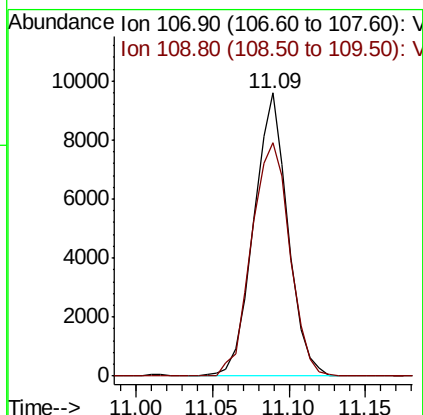
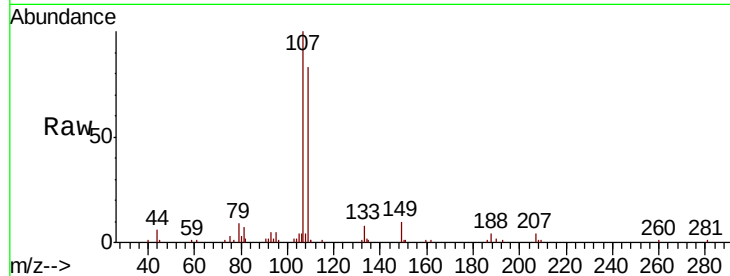




#61
 1,2-Dibromoethane
 Concen: 4.048 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

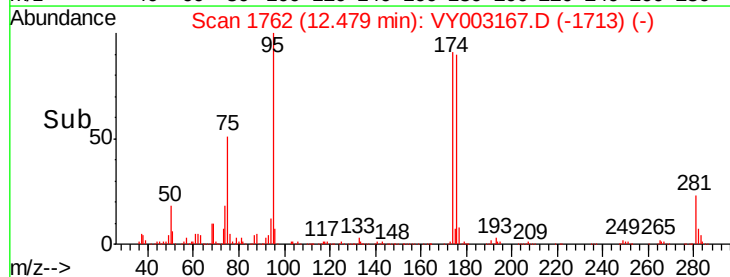
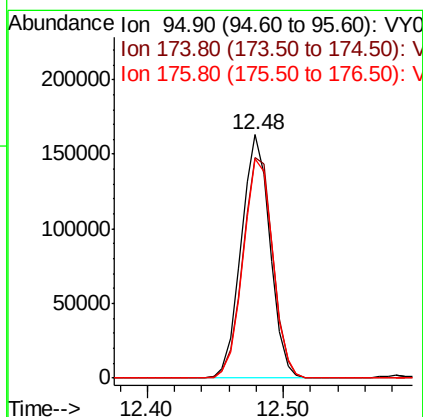
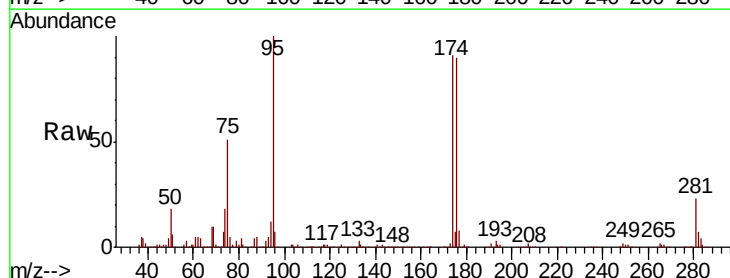
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

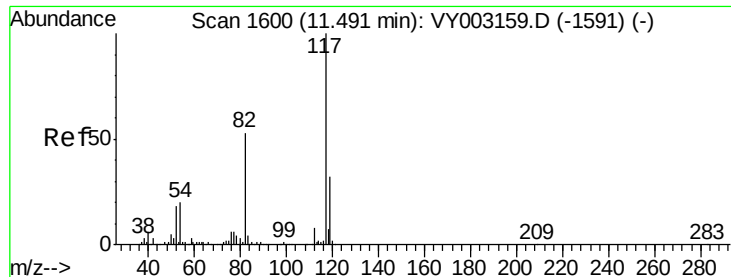
Tot Ion: 107 Resp: 14883
 Ion Ratio Lower Upper
 107 100
 109 92.6 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 44.897 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 95 Resp: 241879
 Ion Ratio Lower Upper
 95 100
 174 94.8 0.0 190.6
 176 92.7 0.0 186.4

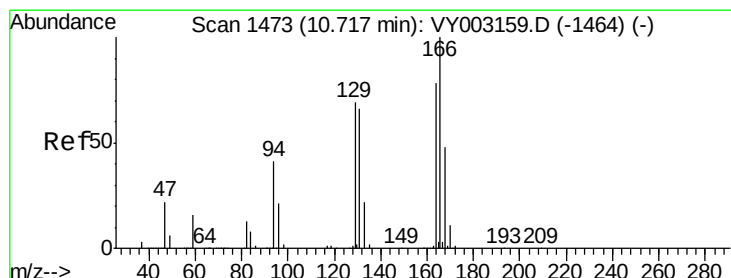
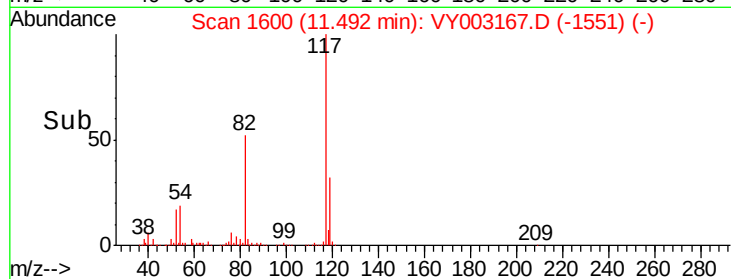
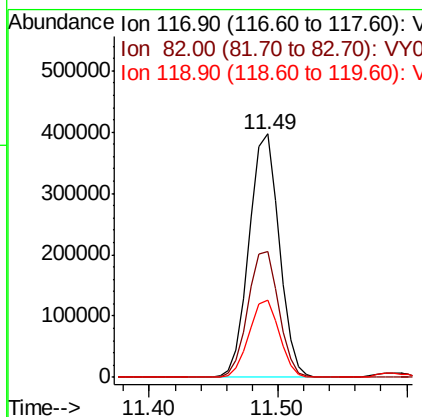
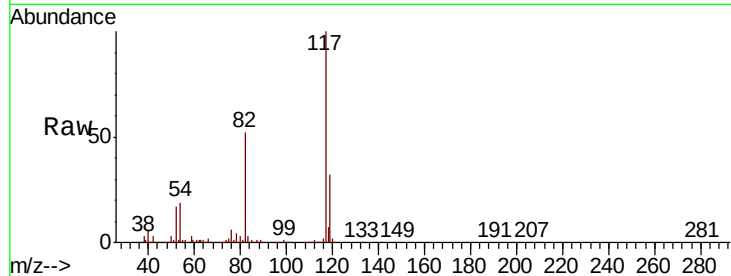




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

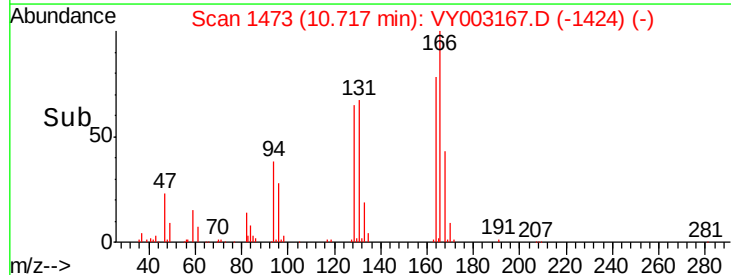
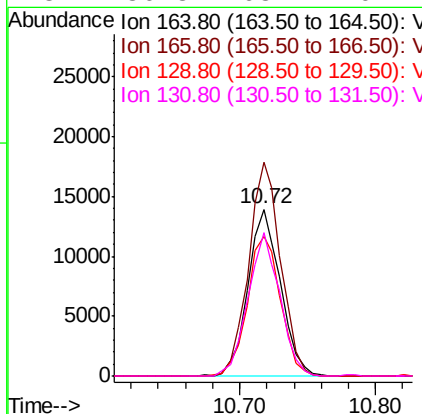
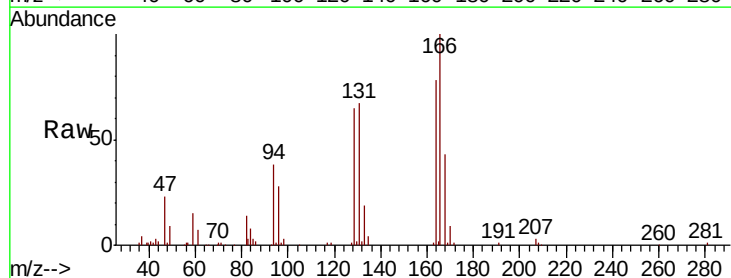
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

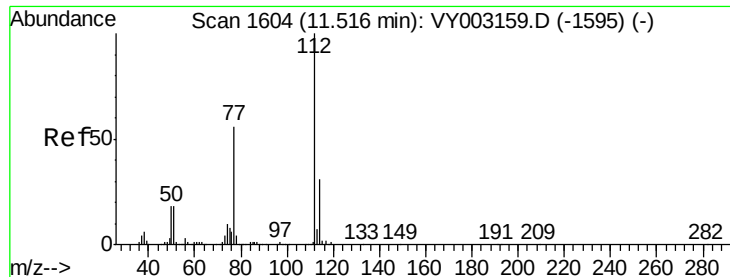
Tot Ion:117 Resp: 638825
Ion Ratio Lower Upper
117 100
82 51.8 42.0 63.0
119 31.8 25.5 38.3



#64
Tetrachloroethene
Concen: 4.086 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion:164 Resp: 23275
Ion Ratio Lower Upper
164 100
166 128.0 102.9 154.3
129 83.4 71.4 107.2
131 86.3 68.1 102.1





#65

Chlorobenzene

Concen: 4.049 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

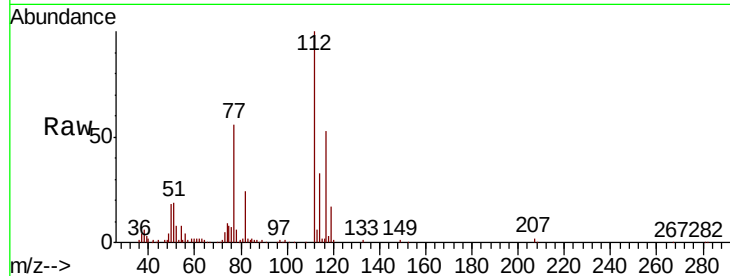
MDL-SOIL-03-QT3-2020

Tot Ion:112 Resp: 49831

Ion Ratio Lower Upper

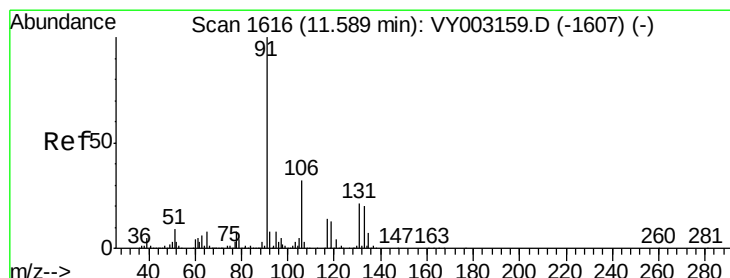
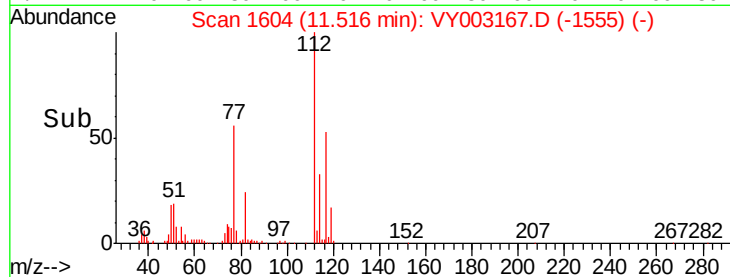
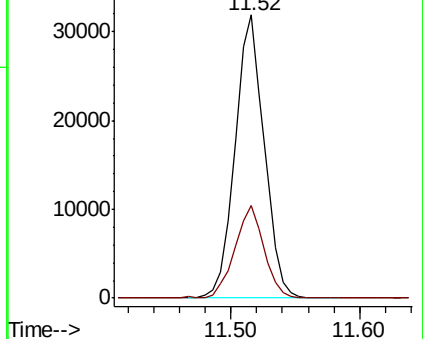
112 100

114 32.4 24.7 37.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 3.917 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

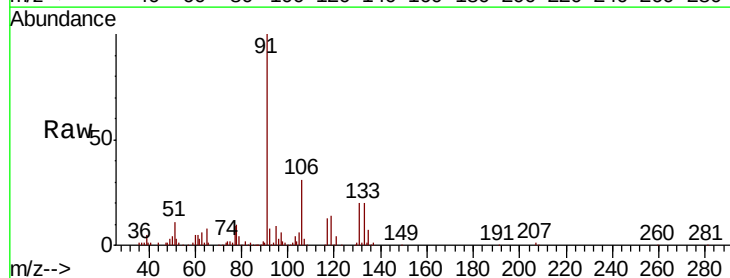
Tgt Ion:131 Resp: 18721

Ion Ratio Lower Upper

131 100

133 98.9 48.0 144.0

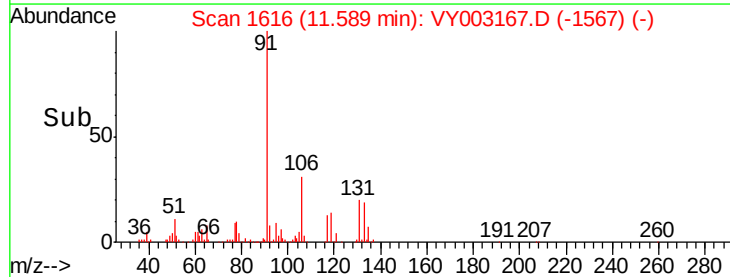
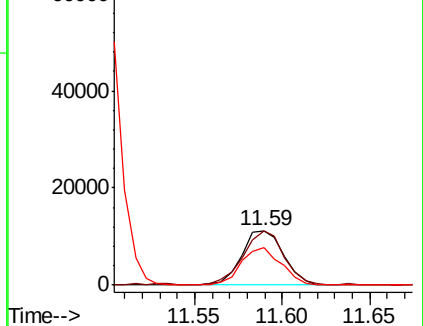
119 66.1 32.4 97.0

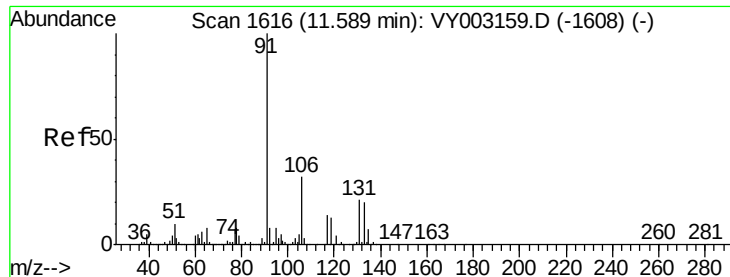


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

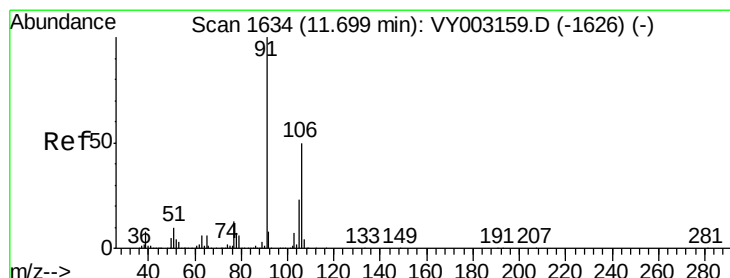
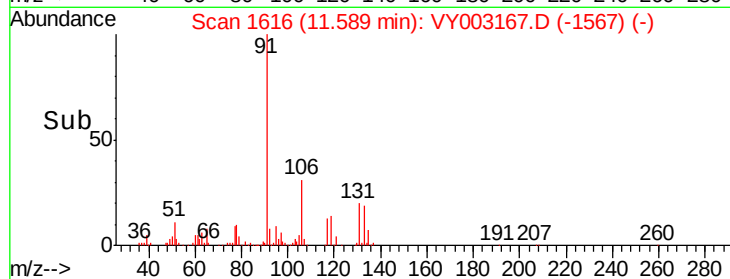
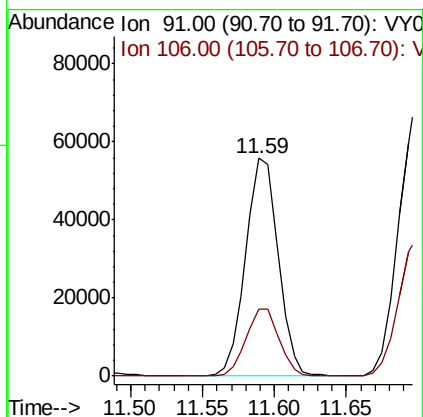
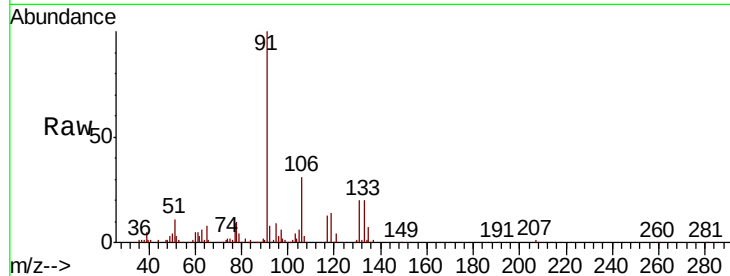




#67
Ethyl Benzene
Concen: 3.991 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

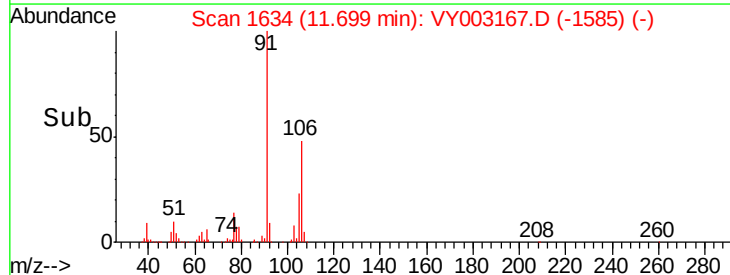
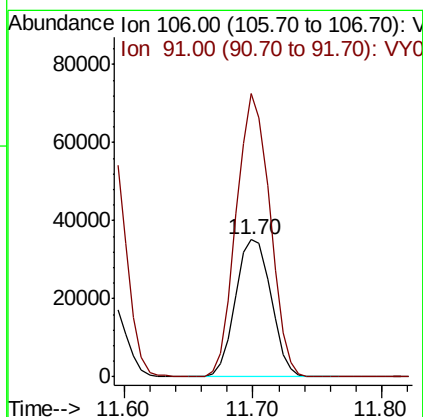
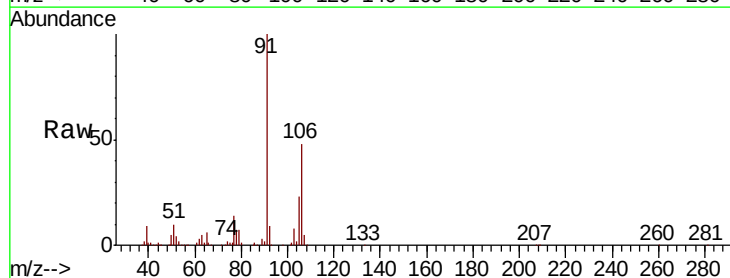
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

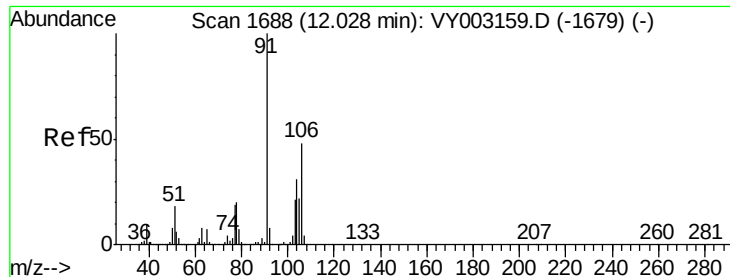
Tot Ion: 91 Resp: 87695
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3



#68
m/p-Xylenes
Concen: 8.099 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 106 Resp: 67520
Ion Ratio Lower Upper
106 100
91 195.1 159.0 238.6

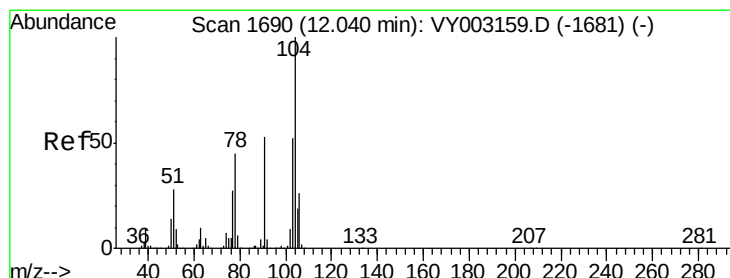
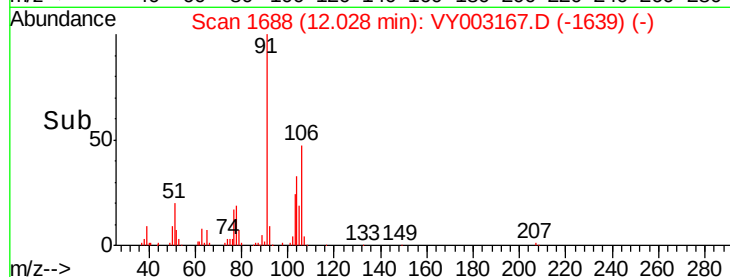
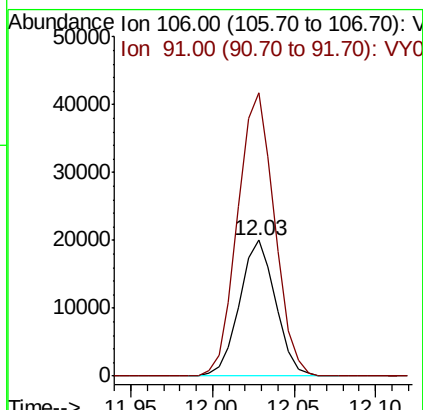
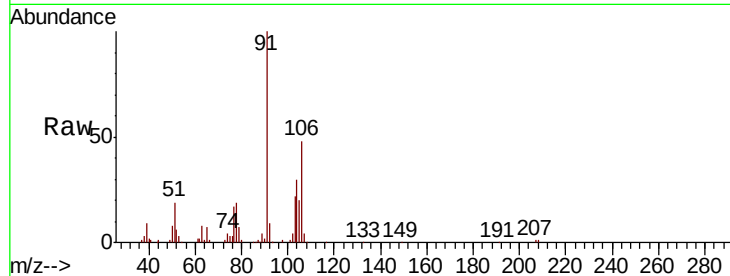




#69
o-Xylene
Concen: 3.968 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

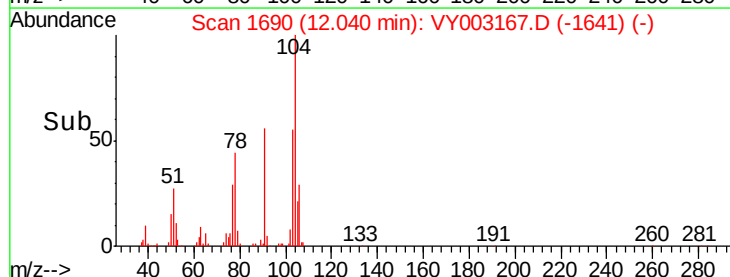
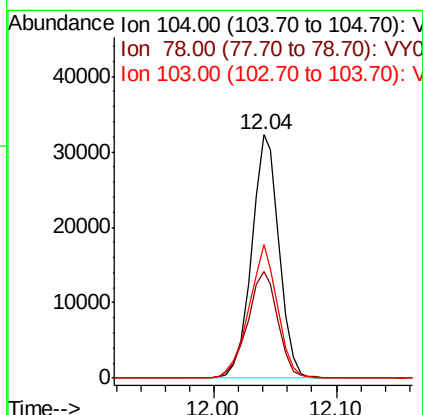
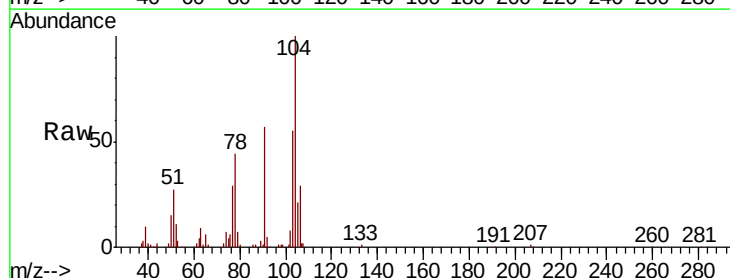
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

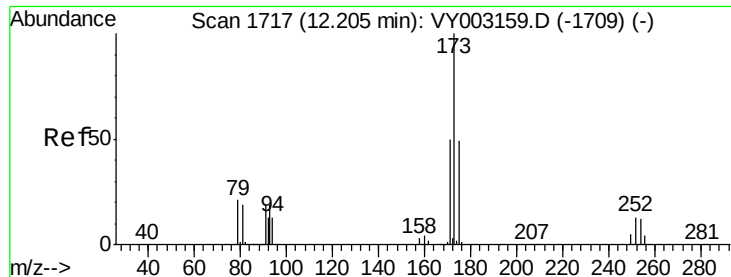
Tot Ion:106 Resp: 30905
Ion Ratio Lower Upper
106 100
91 212.5 105.1 315.1



#70
Styrene
Concen: 3.772 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion:104 Resp: 50260
Ion Ratio Lower Upper
104 100
78 48.8 38.5 57.7
103 57.3 43.9 65.9





#71

Bromoform

Concen: 3.787 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

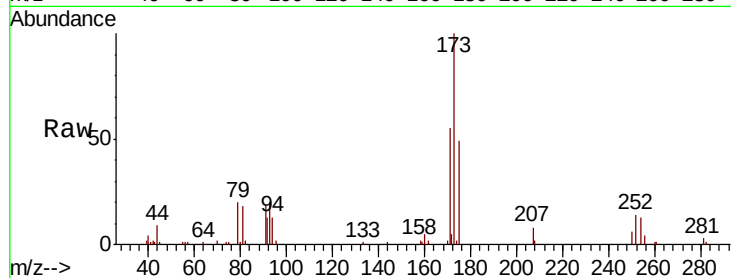
Tot Ion:173 Resp: 11881

Ion Ratio Lower Upper

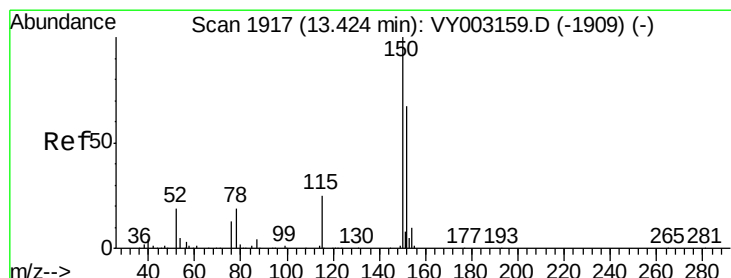
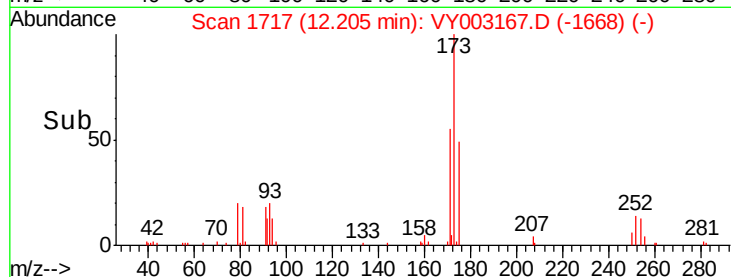
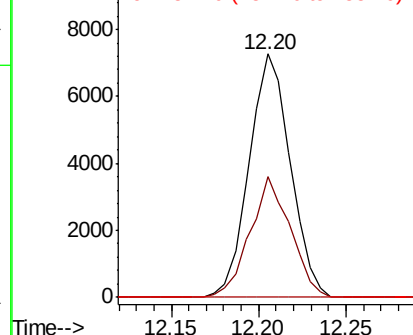
173 100

175 48.5 24.3 73.0

254 0.0 0.2 0.2#



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: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

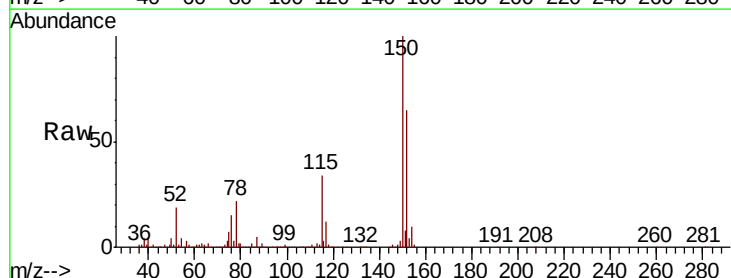
Tgt Ion:152 Resp: 332968

Ion Ratio Lower Upper

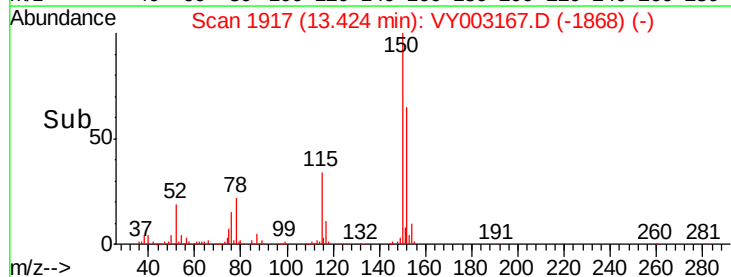
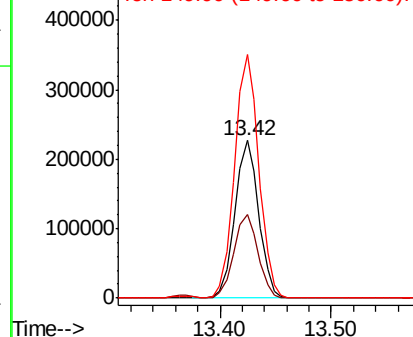
152 100

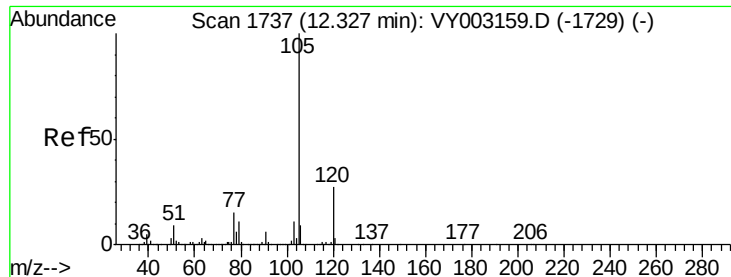
115 54.2 26.9 80.7

150 157.8 0.0 338.0



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: 3.911 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

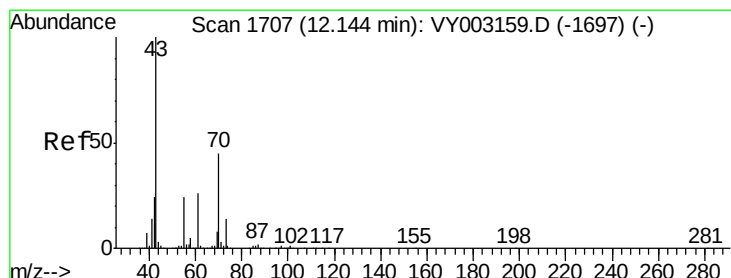
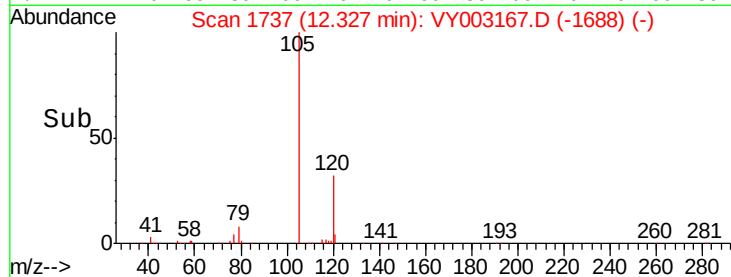
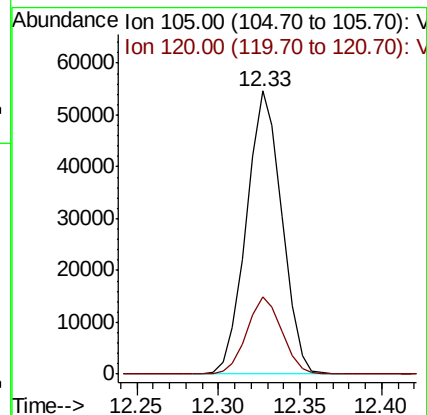
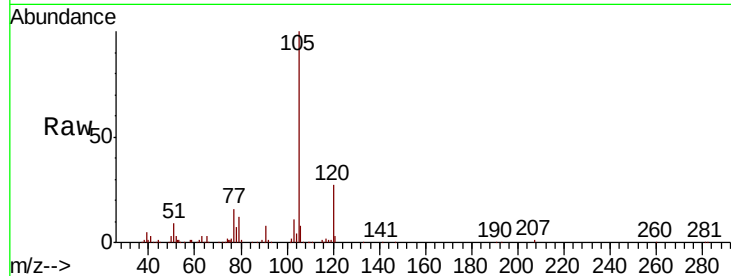
MDL-SOIL-03-QT3-2020

Tot Ion: 105 Resp: 82985

Ion Ratio Lower Upper

105 100

120 26.9 13.4 40.2



#74

N-ethyl acetate

Concen: 3.751 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion: 43 Resp: 22335

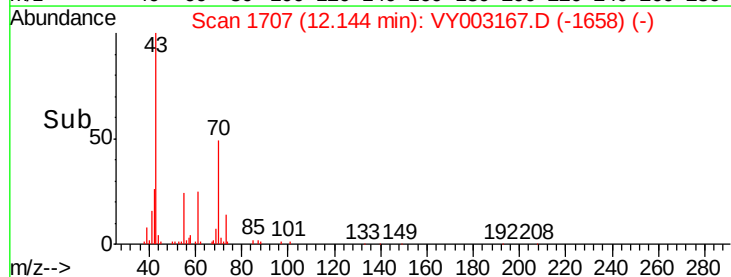
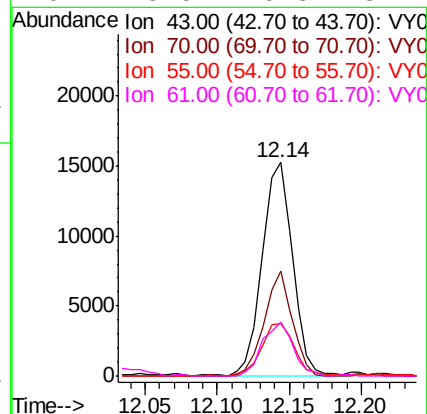
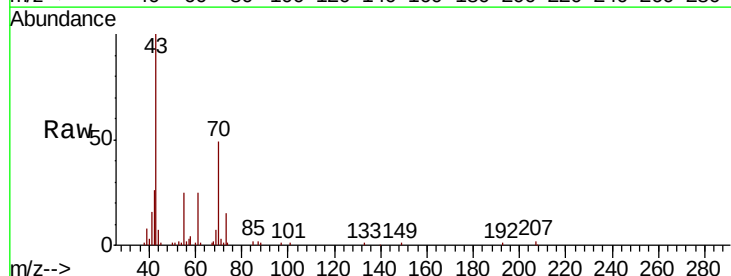
Ion Ratio Lower Upper

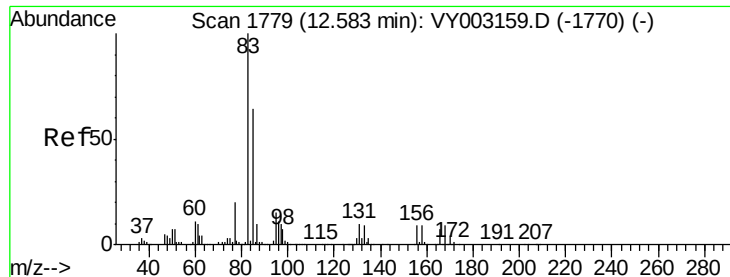
43 100

70 44.3 35.6 53.4

55 26.5 19.4 29.2

61 25.5 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 3.892 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

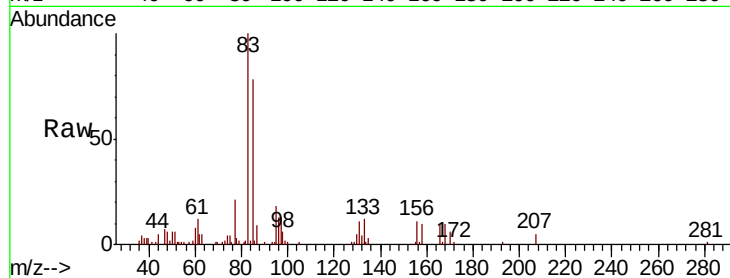
Tot Ion: 83 Resp: 15950

Ion Ratio Lower Upper

83 100

131 11.2 5.2 15.6

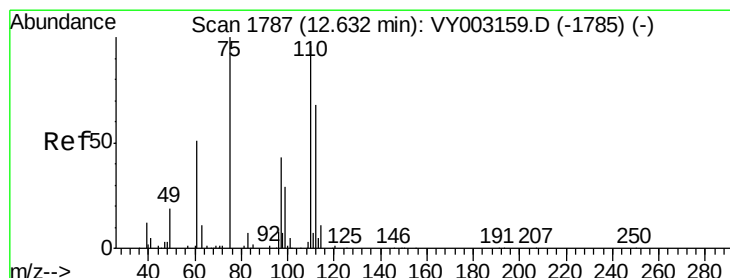
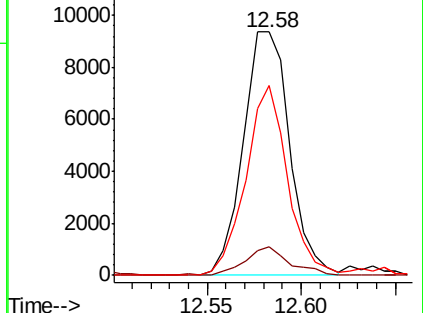
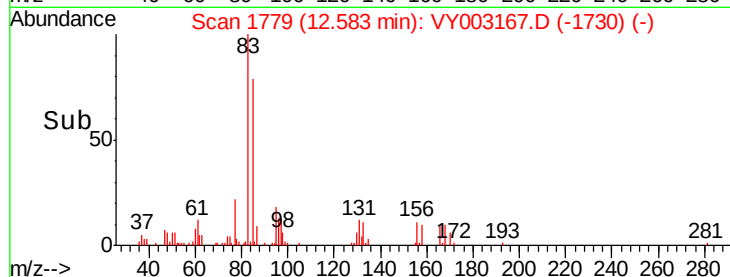
85 70.0 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VY003167.D (-1730) (-)

Ion 130.80 (130.50 to 131.50): VY003167.D (-1730) (-)

Ion 84.90 (84.60 to 85.60): VY003167.D (-1730) (-)



#76

1,2,3-Trichloropropane

Concen: 7.790 ug/l

RT: 12.63 min Scan# 1787

Delta R.T. 0.00 min

Lab File: VY003167.D

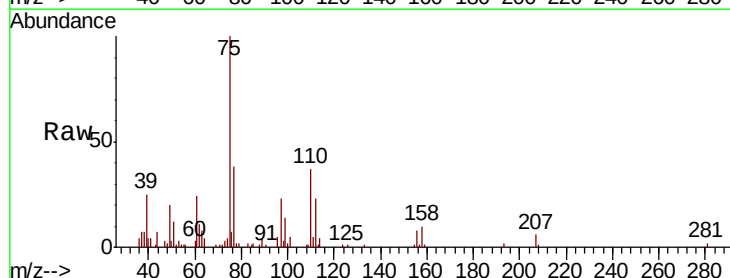
Acq: 10 Jul 2020 16:43

Tgt Ion: 75 Resp: 22959

Ion Ratio Lower Upper

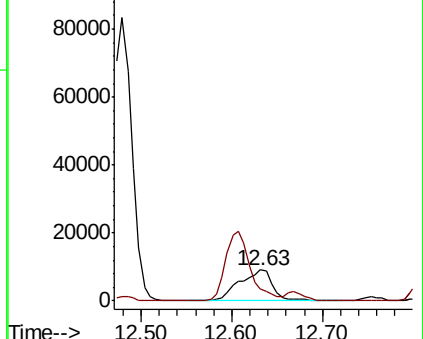
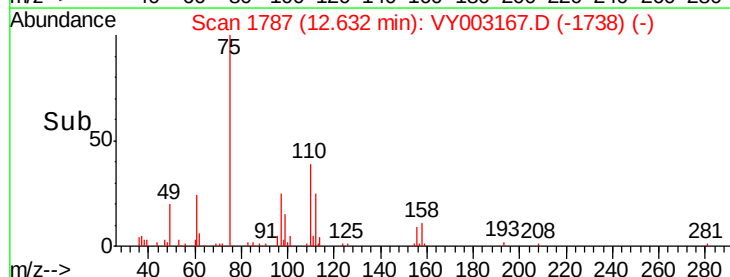
75 100

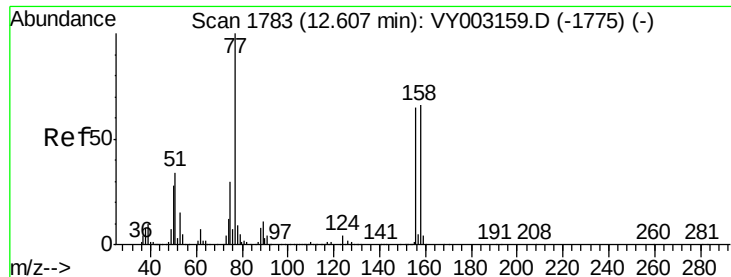
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY003167.D (-1738) (-)

Ion 77.00 (76.70 to 77.70): VY003167.D (-1738) (-)





#77

Bromobenzene

Concen: 4.148 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

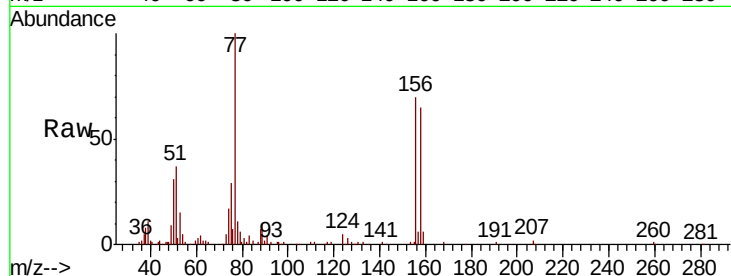
Tot Ion:156 Resp: 22435

Ion Ratio Lower Upper

156 100

77 171.2 86.6 259.7

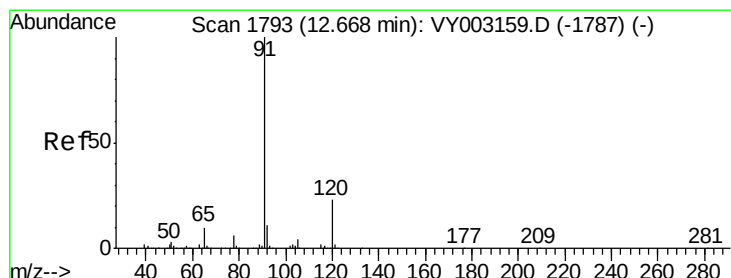
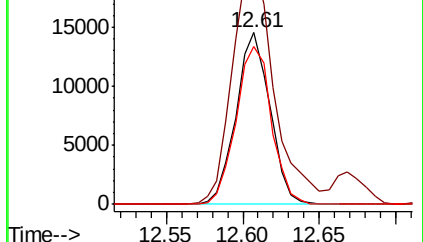
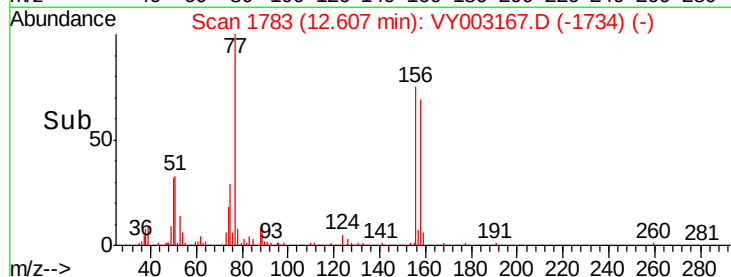
158 95.9 49.4 148.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.093 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY003167.D

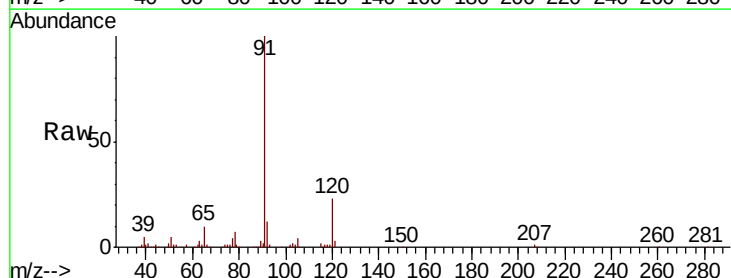
Acq: 10 Jul 2020 16:43

Tgt Ion: 91 Resp: 102364

Ion Ratio Lower Upper

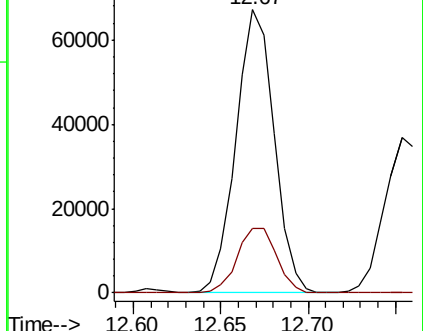
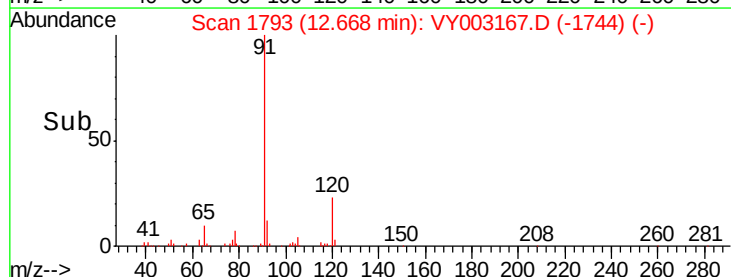
91 100

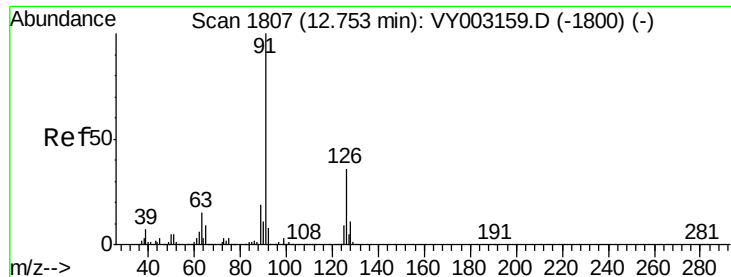
120 23.6 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.151 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

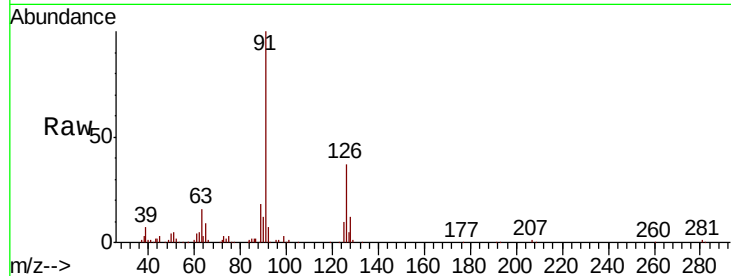
MDL-SOIL-03-QT3-2020

Tot Ion: 91 Resp: 57929

Ion Ratio Lower Upper

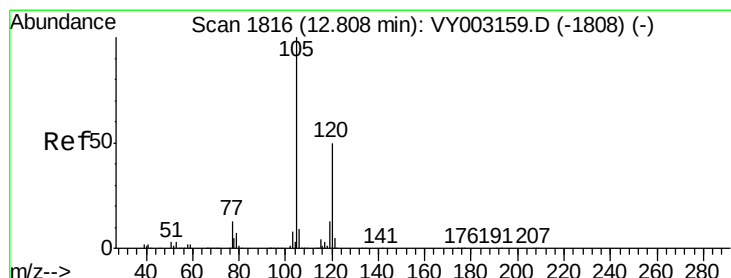
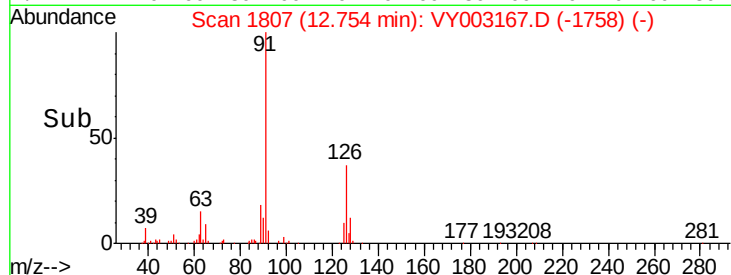
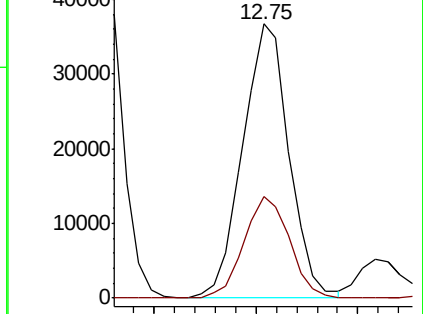
91 100

126 36.2 17.6 52.9



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.977 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY003167.D

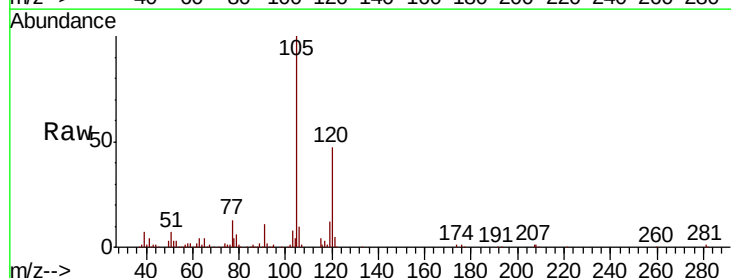
Acq: 10 Jul 2020 16:43

Tgt Ion: 105 Resp: 70329

Ion Ratio Lower Upper

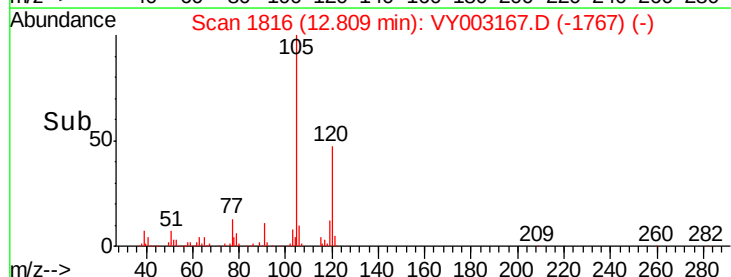
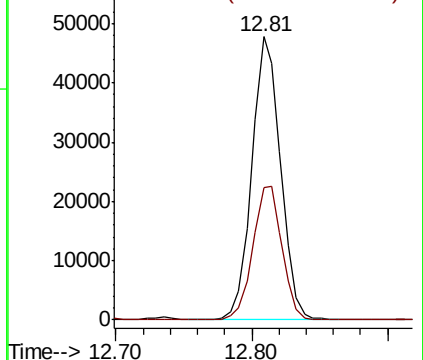
105 100

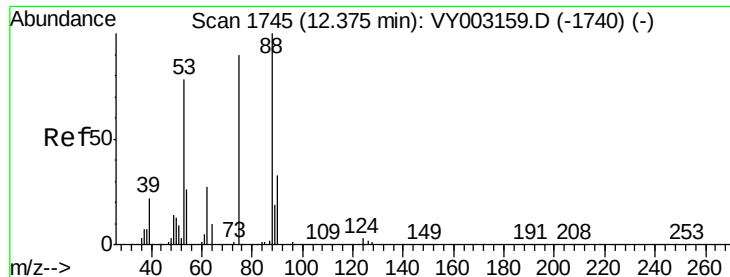
120 48.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.677 ug/l

RT: 12.38 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

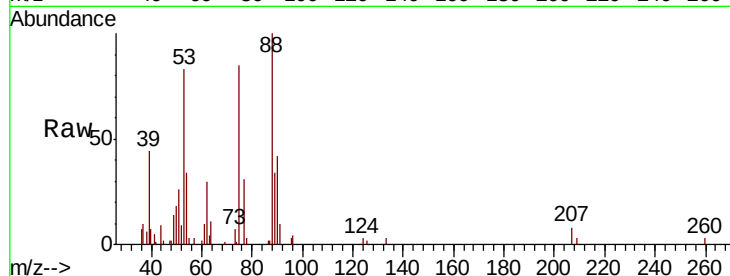
Tot Ion: 75 Resp: 5569

Ion Ratio Lower Upper

75 100

53 92.5 72.0 108.0

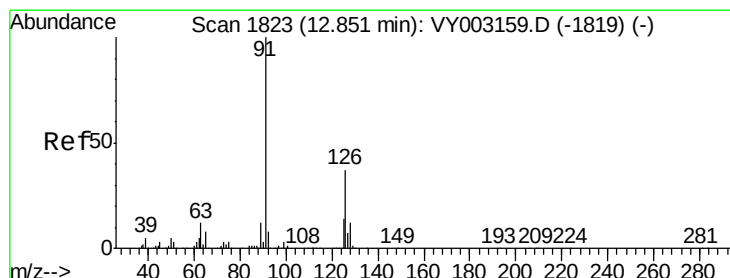
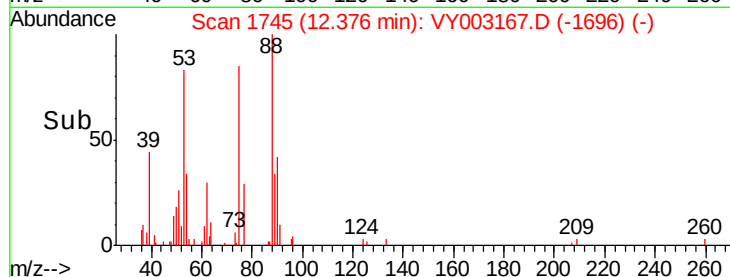
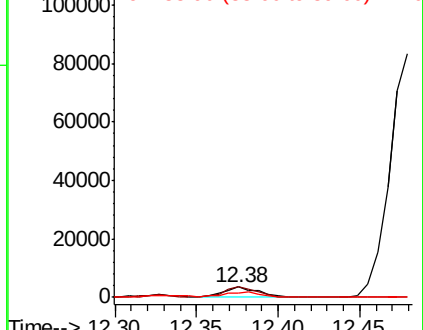
89 49.2 37.3 55.9



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#82

4-Chlorotoluene

Concen: 4.130 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VY003167.D

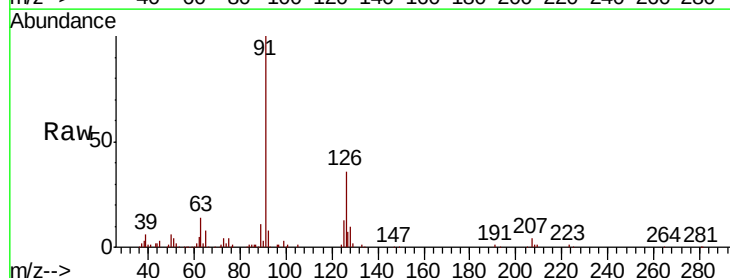
Acq: 10 Jul 2020 16:43

Tgt Ion: 91 Resp: 60154

Ion Ratio Lower Upper

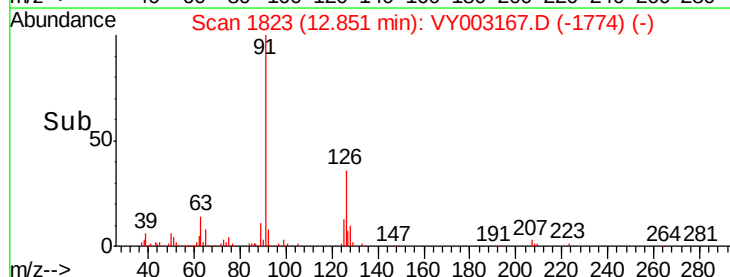
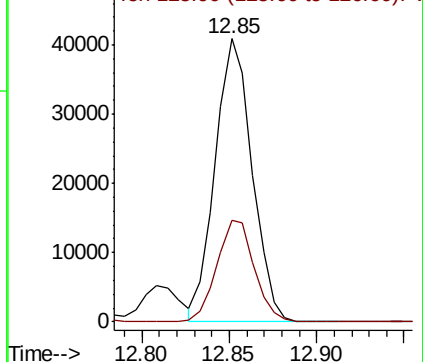
91 100

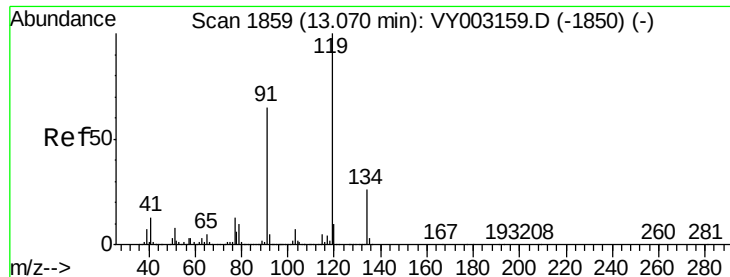
126 36.5 17.9 53.7



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 4.120 ug/l

RT: 13.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

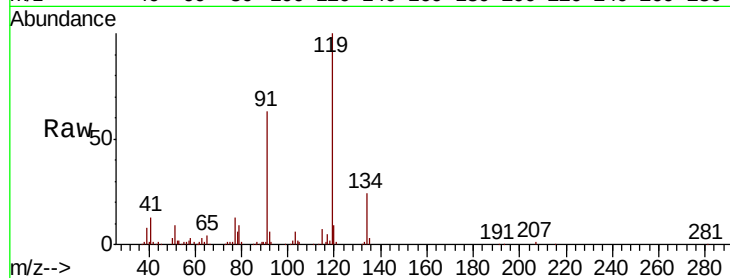
Tot Ion:119 Resp: 64298

Ion Ratio Lower Upper

119 100

91 61.0 30.8 92.4

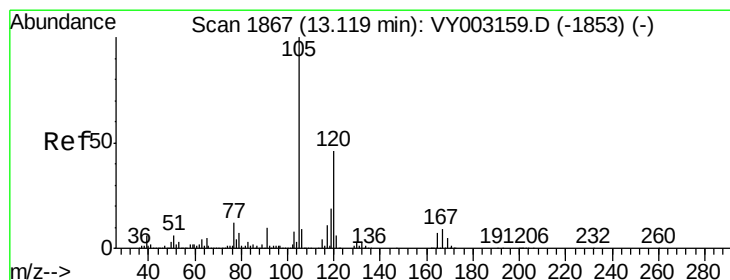
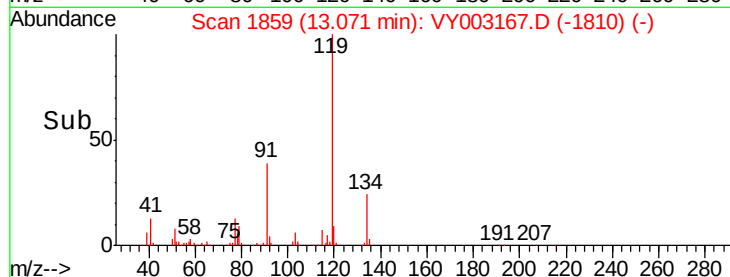
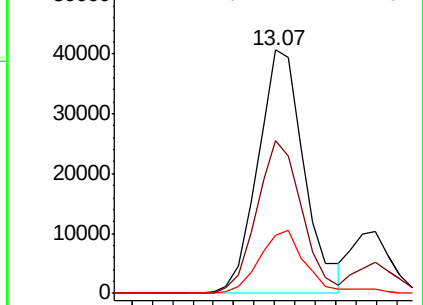
134 26.4 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.059 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY003167.D

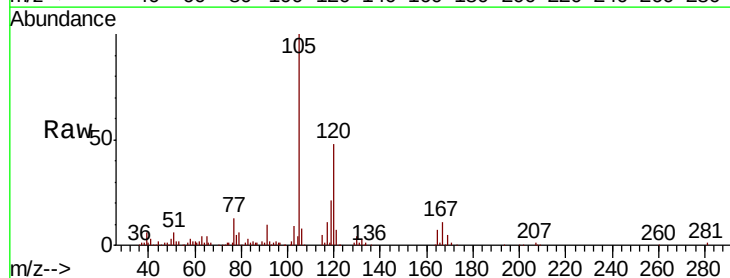
Acq: 10 Jul 2020 16:43

Tgt Ion:105 Resp: 72228

Ion Ratio Lower Upper

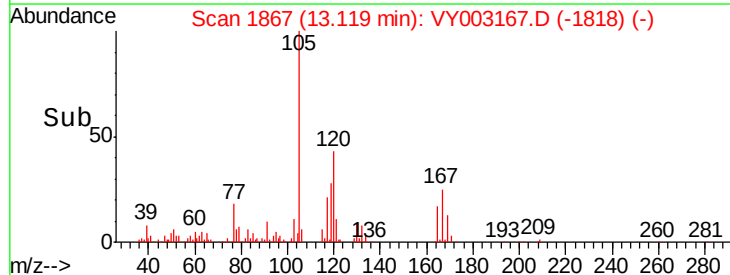
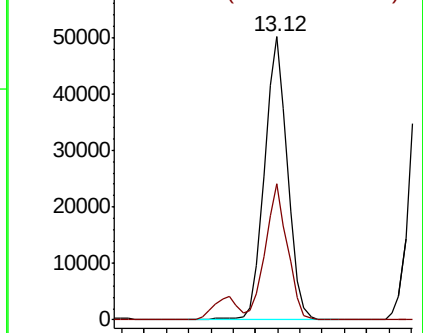
105 100

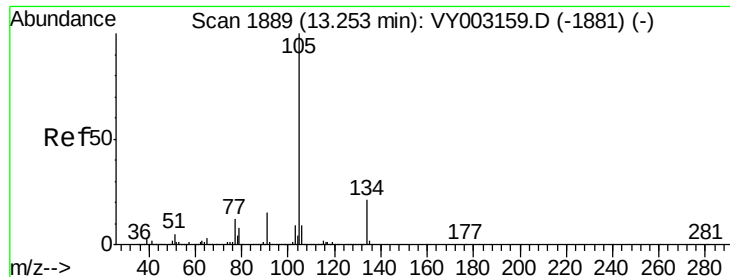
120 46.5 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

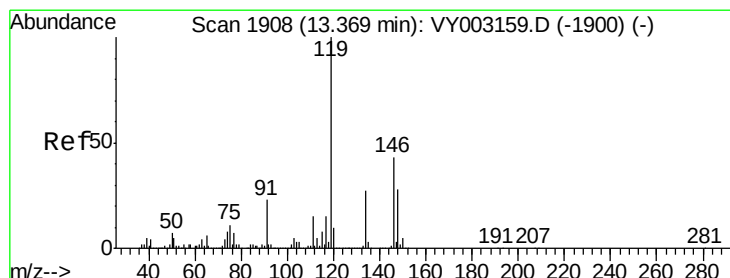
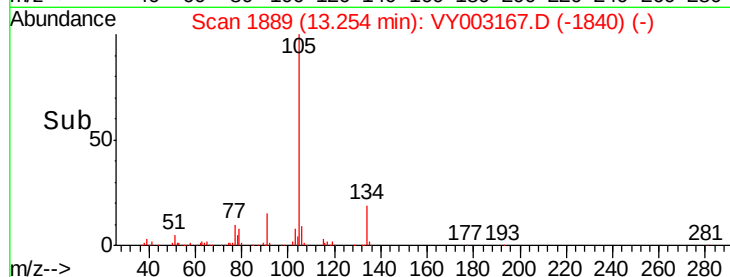
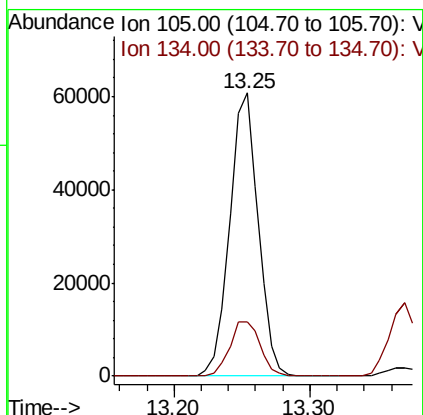
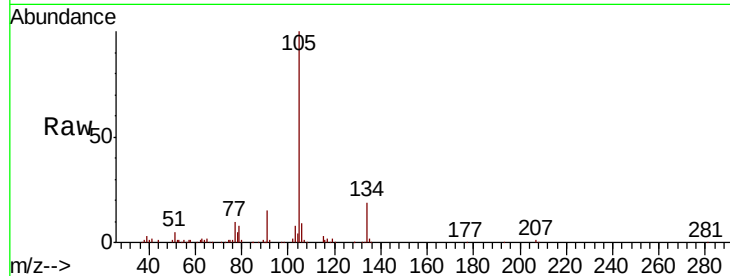




#85
 sec-Butylbenzene
 Concen: 4.120 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

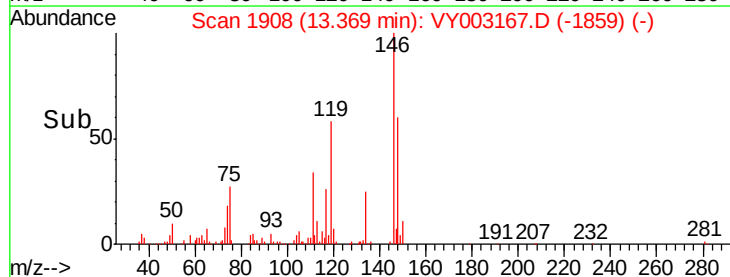
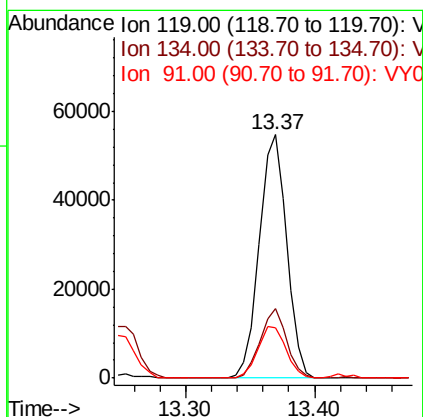
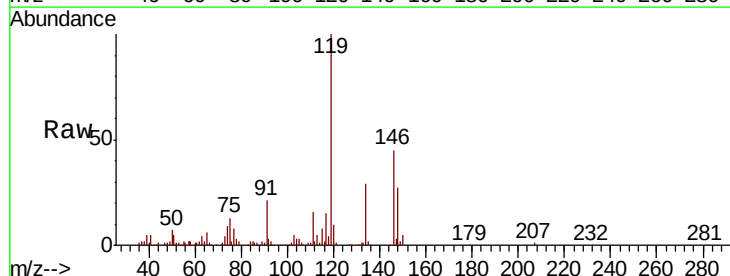
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

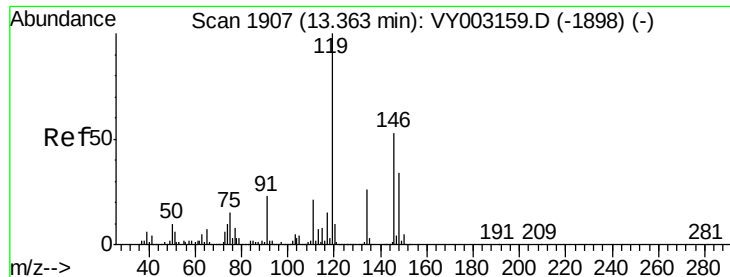
Tot Ion:105 Resp: 88360
 Ion Ratio Lower Upper
 105 100
 134 20.8 10.4 31.4



#86
 p-Isopropyltoluene
 Concen: 4.014 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion:119 Resp: 80378
 Ion Ratio Lower Upper
 119 100
 134 27.9 13.4 40.2
 91 21.9 11.2 33.6

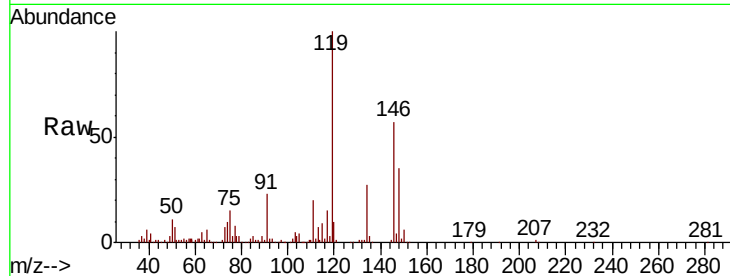




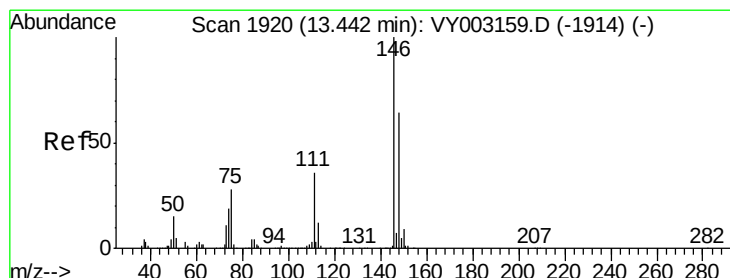
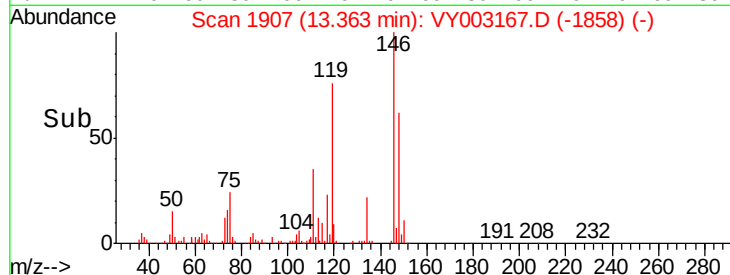
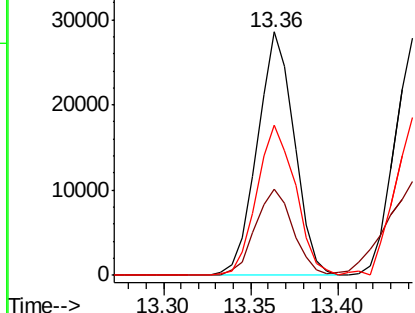
#87
 1,3-Dichlorobenzene
 Concen: 4.113 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion:146 Resp: 42066
 Ion Ratio Lower Upper
 146 100
 111 36.2 18.8 56.3
 148 64.5 32.3 96.9

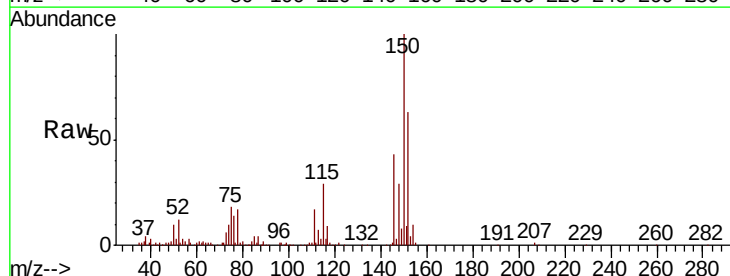


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

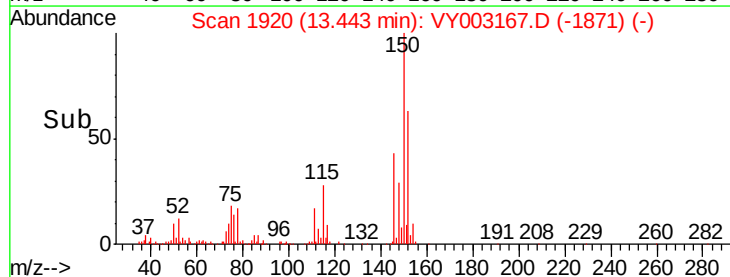
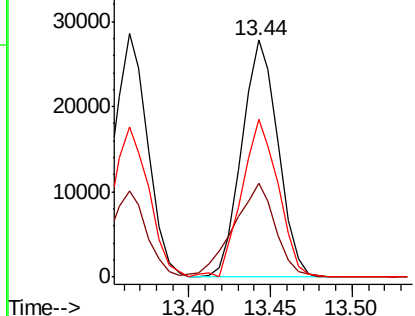


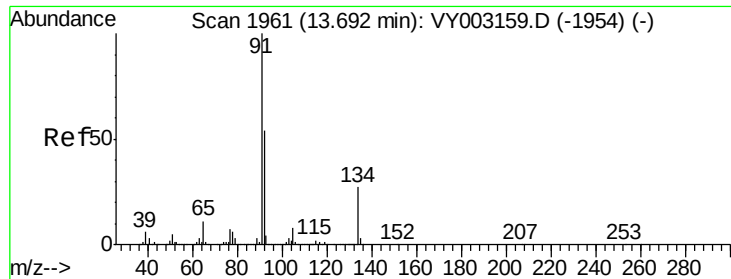
#88
 1,4-Dichlorobenzene
 Concen: 4.253 ug/l
 RT: 13.44 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion:146 Resp: 43073
 Ion Ratio Lower Upper
 146 100
 111 45.7 18.4 55.0
 148 66.6 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

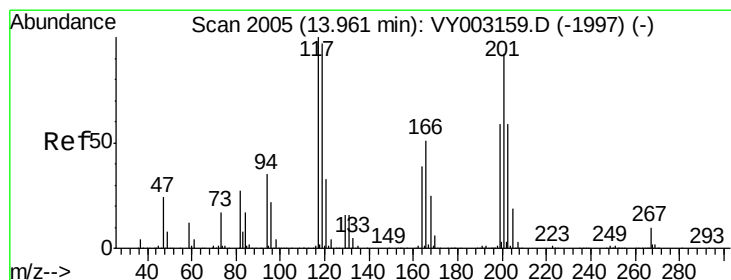
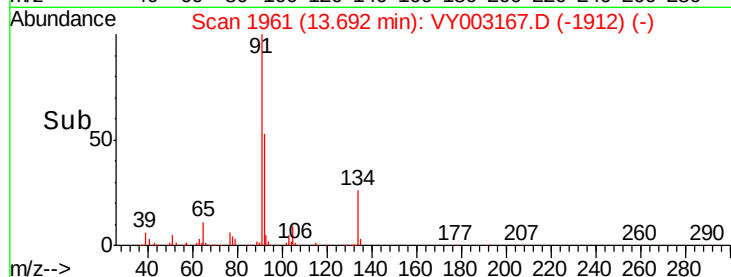
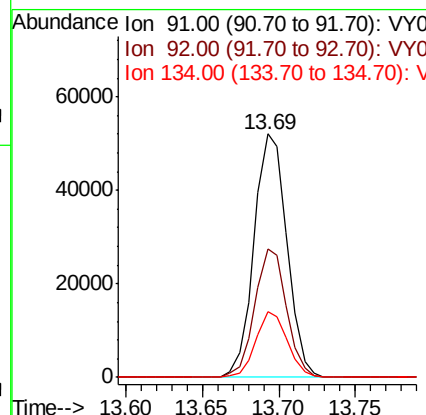
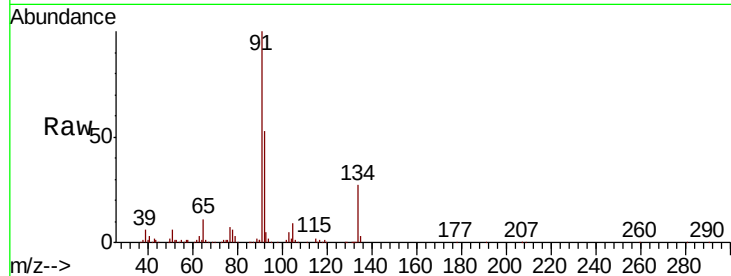




#89
n-Butylbenzene
Concen: 4.133 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

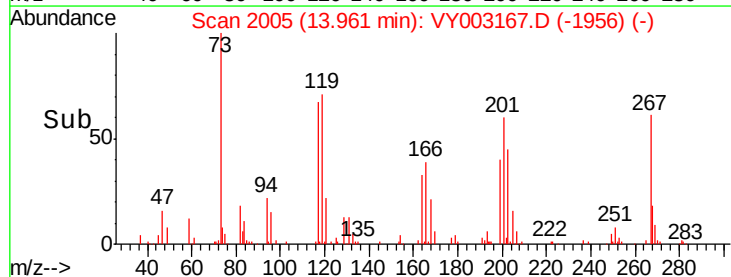
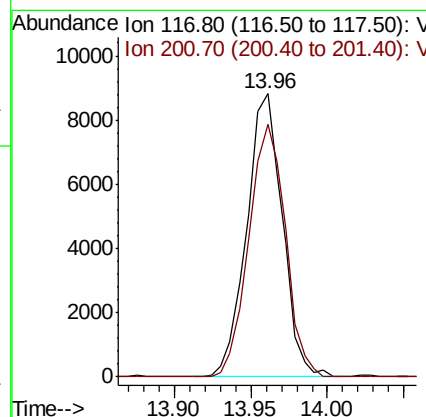
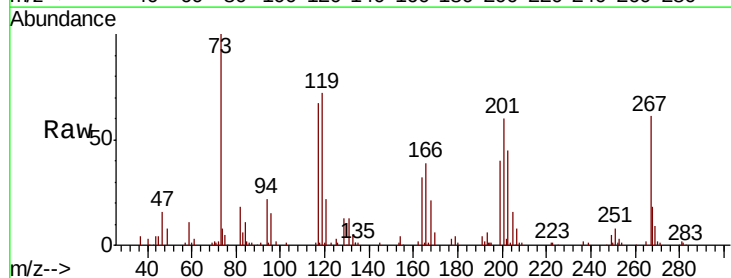
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

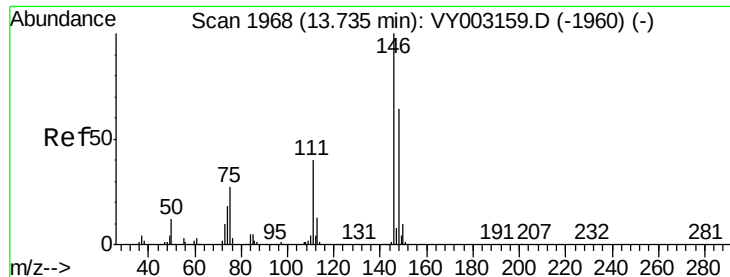
Tot Ion: 91 Resp: 77859
Ion Ratio Lower Upper
91 100
92 50.9 26.9 80.7
134 25.8 13.6 40.7



#90
Hexachloroethane
Concen: 3.926 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 117 Resp: 14316
Ion Ratio Lower Upper
117 100
201 91.3 45.1 135.3

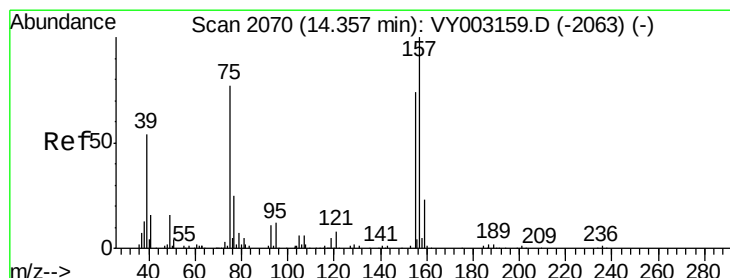
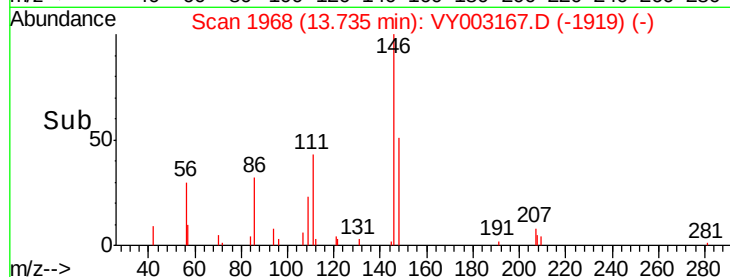
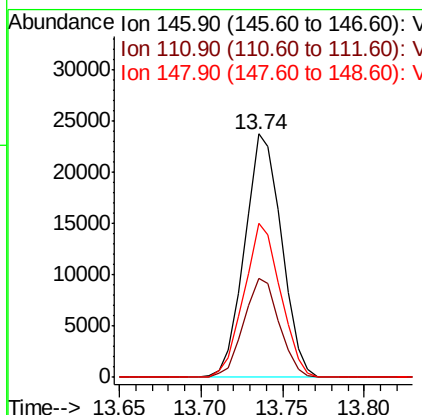
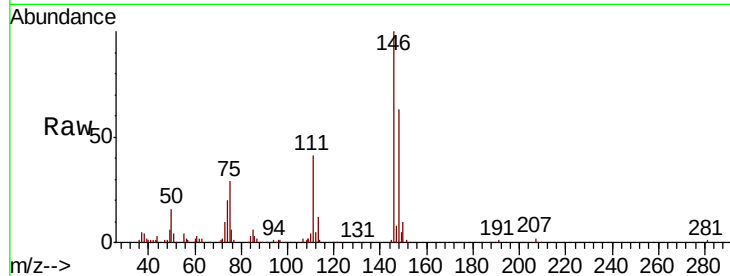




#91
 1,2-Dichlorobenzene
 Concen: 4.174 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

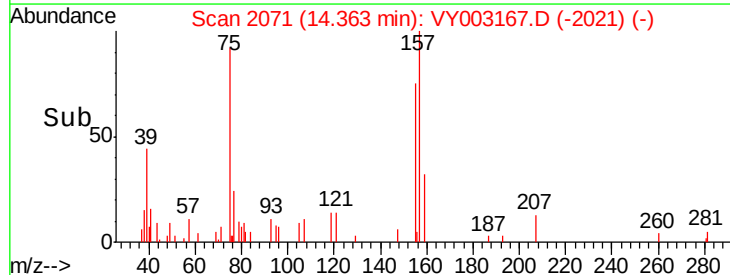
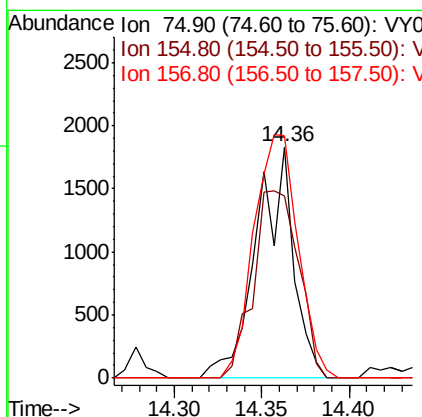
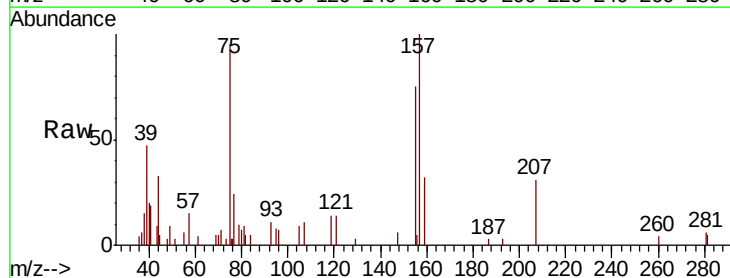
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

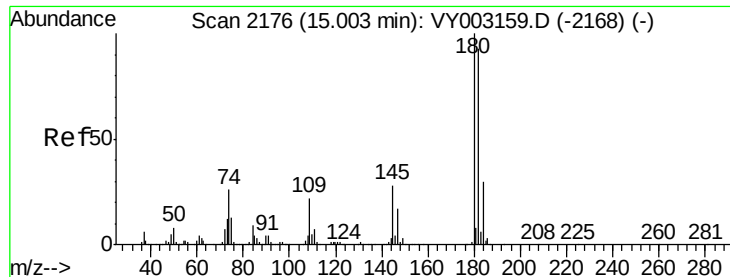
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.8
148	63.0	32.4	97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.103 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. 0.01 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.9	48.1	144.3
157	125.2	61.9	185.6

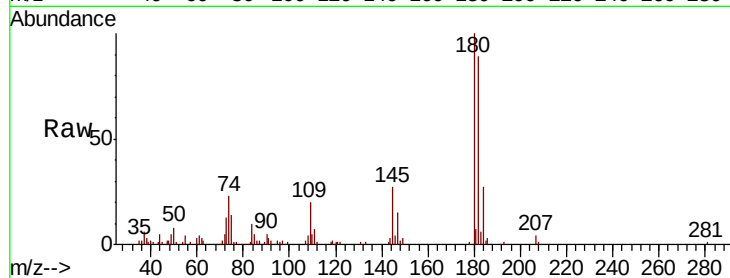




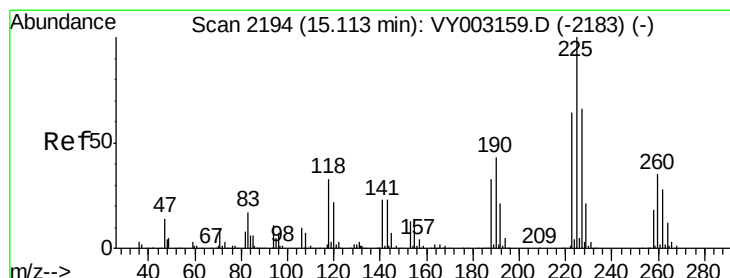
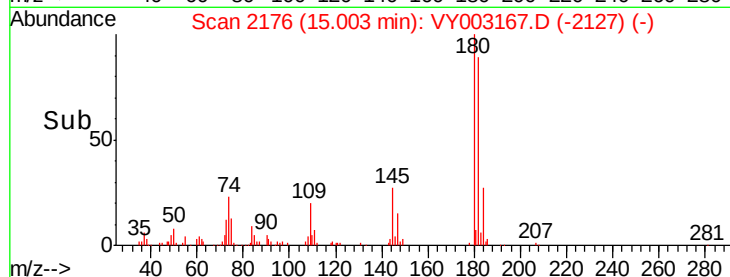
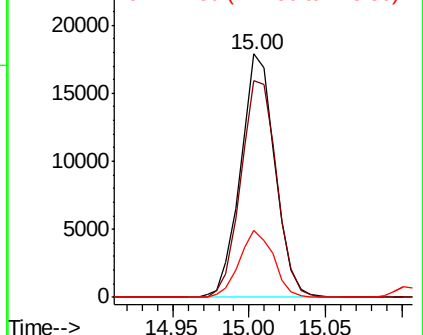
#93
 1,2,4-Trichlorobenzene
 Concen: 4.365 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion:180 Resp: 27875
 Ion Ratio Lower Upper
 180 100
 182 92.6 47.3 142.0
 145 27.2 13.7 41.1

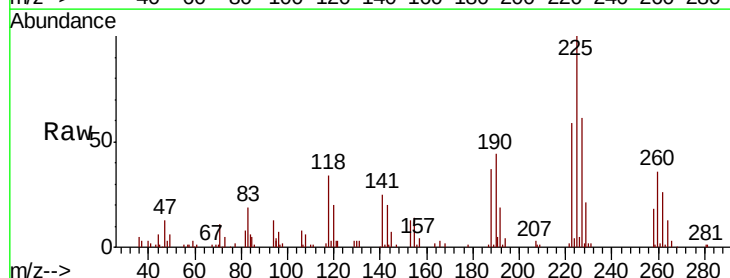


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

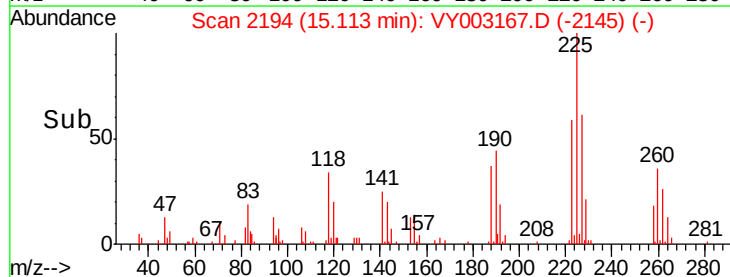
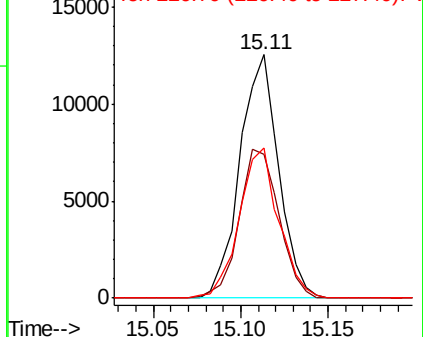


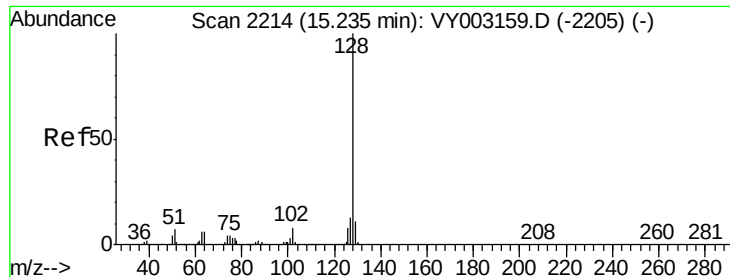
#94
 Hexachlorobutadiene
 Concen: 4.407 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion:225 Resp: 19284
 Ion Ratio Lower Upper
 225 100
 223 62.8 31.6 94.7
 227 62.9 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

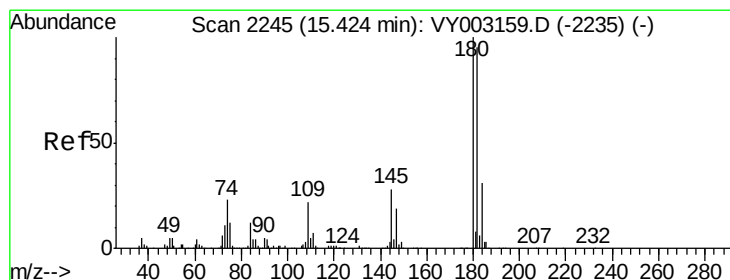
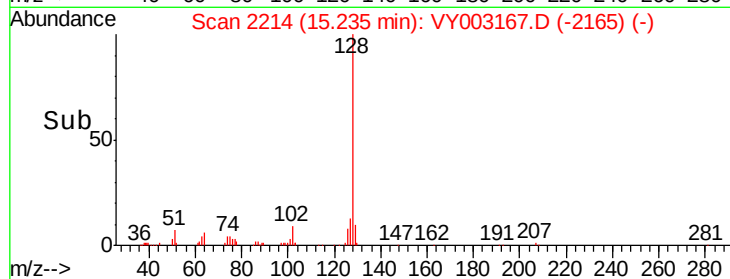
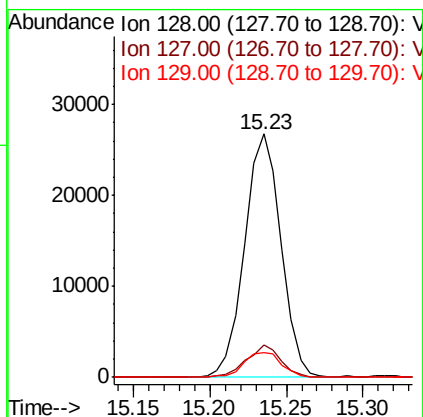
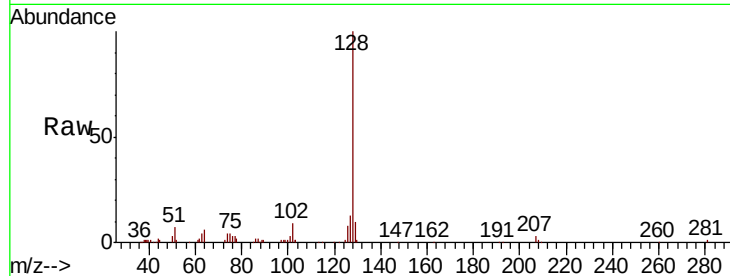




#95
Naphthalene
Concen: 4.173 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion:128 Resp: 44042
Ion Ratio Lower Upper
128 100
127 12.6 10.9 16.3
129 10.7 9.0 13.6



#96
1,2,3-Trichlorobenzene
Concen: 4.476 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion:180 Resp: 22595
Ion Ratio Lower Upper
180 100
182 96.7 48.8 146.3
145 29.1 14.9 44.5

