

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110220\
 Data File : VY003471.D
 Acq On : 02 Nov 2020 14:42
 Operator : SY/MD
 Sample : L4214-01 2.5PPBLOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

Quant Time: Nov 03 02:38:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 02 12:40:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	271840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	394782	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	346963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	173307	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	133444	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	7.73	113	119971	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
50) Toluene-d8	10.18	98	484687	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
62) 4-Bromofluorobenzene	12.48	95	157119	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	6137	2.853	ug/l	99
3) Chloromethane	2.12	50	8020	2.832	ug/l	98
4) Vinyl Chloride	2.26	62	8891	2.797	ug/l	95
5) Bromomethane	2.66	94	7458	2.808	ug/l	97
6) Chloroethane	2.80	64	5312	2.804	ug/l #	88
7) Trichlorofluoromethane	3.13	101	12333	3.057	ug/l	98
8) Diethyl Ether	3.54	74	3321	2.684	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.91	101	6759	3.031	ug/l	97
10) Methyl Iodide	4.10	142	5612	3.050	ug/l	99
11) Tert butyl alcohol	4.95	59	8049	25.581	ug/l #	84
12) 1,1-Dichloroethene	3.88	96	6758	3.046	ug/l	86
13) Acrolein	3.74	56	3344	14.459	ug/l	99
14) Allyl chloride	4.50	41	10812	2.671	ug/l	97
15) Acrylonitrile	5.18	53	8513	12.891	ug/l	99
16) Acetone	3.96	43	10906	11.863	ug/l	97
17) Carbon Disulfide	4.21	76	20232	2.815	ug/l	96
18) Methyl Acetate	4.49	43	5216	3.002	ug/l	100
19) Methyl tert-butyl Ether	5.24	73	14833	2.699	ug/l	98
20) Methylene Chloride	4.73	84	12481	4.821	ug/l	96
21) trans-1,2-Dichloroethene	5.24	96	7746	3.015	ug/l	80
22) Diisopropyl ether	6.13	45	18158	2.558	ug/l	97
23) Vinyl Acetate	6.08	43	62698	11.753	ug/l	100
24) 1,1-Dichloroethane	6.03	63	12519	2.775	ug/l	97
25) 2-Butanone	7.00	43	13687	11.904	ug/l	96
26) 2,2-Dichloropropane	6.99	77	12704	3.023	ug/l	94
27) cis-1,2-Dichloroethene	7.00	96	7816	2.808	ug/l	99
28) Bromochloromethane	7.35	49	5602	2.468	ug/l #	98
29) Tetrahydrofuran	7.36	42	7406	12.326	ug/l	97
30) Chloroform	7.52	83	12460	2.812	ug/l	94
31) Cyclohexane	7.80	56	15597	3.734	ug/l #	64
32) 1,1,1-Trichloroethane	7.71	97	10970	2.654	ug/l	98
36) 1,1-Dichloropropene	7.92	75	10796	2.900	ug/l	99
37) Ethyl Acetate	7.08	43	6395	2.767	ug/l	99
38) Carbon Tetrachloride	7.91	117	10146	2.628	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	11305	2.728	ug/l	94
40) Benzene	8.17	78	28423	2.744	ug/l	99
41) Methacrylonitrile	7.32	41	2010	1.629	ug/l #	100
42) 1,2-Dichloroethane	8.25	62	8915	2.747	ug/l	100
43) Isopropyl Acetate	8.28	43	10311	2.482	ug/l	95
44) Trichloroethene	8.95	130	8041	2.765	ug/l	93
45) 1,2-Dichloropropane	9.22	63	7027	2.686	ug/l	97
46) Dibromomethane	9.31	93	3983	2.768	ug/l	96
47) Bromodichloromethane	9.50	83	9638	2.736	ug/l	99
48) Methyl methacrylate	9.30	41	4549	2.325	ug/l	96
49) 1,4-Dioxane	9.30	88	993	55.299	ug/l #	88
51) 4-Methyl-2-Pentanone	10.07	43	26163	11.822	ug/l	100
52) Toluene	10.24	92	17127	2.644	ug/l	98
53) t-1,3-Dichloropropene	10.47	75	9814	2.618	ug/l	100
54) cis-1,3-Dichloropropene	9.93	75	10658	2.527	ug/l	96
55) 1,1,2-Trichloroethane	10.65	97	5353	2.620	ug/l	98
56) Ethyl methacrylate	10.51	69	6410	2.343	ug/l	99
57) 1,3-Dichloropropane	10.79	76	9085	2.557	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.78	63	14736	10.623	ug/l	96
59) 2-Hexanone	10.83	43	18315	11.177	ug/l	97
60) Dibromochloromethane	10.99	129	6254	2.491	ug/l	98
61) 1,2-Dibromoethane	11.09	107	5123	2.597	ug/l	100
64) Tetrachloroethene	10.72	164	7756	2.993	ug/l	89
65) Chlorobenzene	11.52	112	19640	2.914	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.59	131	6474	2.547	ug/l	92
67) Ethyl Benzene	11.60	91	33578	2.747	ug/l	97
68) m/p-Xylenes	11.70	106	25001	5.398	ug/l	99
69) o-Xylene	12.03	106	11224	2.634	ug/l	98
70) Styrene	12.05	104	18020	2.491	ug/l	99
71) Bromoform	12.20	173	4306	2.541	ug/l #	100
73) Isopropylbenzene	12.33	105	30525	2.696	ug/l	99
74) N-amyl acetate	12.14	43	8047	2.509	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	6559	2.712	ug/l	97
76) 1,2,3-Trichloropropane	12.63	75	9128	4.978	ug/l #	100
77) Bromobenzene	12.61	156	8112	2.820	ug/l	99
78) n-propylbenzene	12.67	91	37227	2.792	ug/l	99
79) 2-Chlorotoluene	12.75	91	21405	2.873	ug/l	97
80) 1,3,5-Trimethylbenzene	12.81	105	25508	2.719	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.48	75	82513	93.918	ug/l #	12
82) 4-Chlorotoluene	12.86	91	22254	2.858	ug/l	98
83) tert-Butylbenzene	13.08	119	22110	2.658	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	24546	2.618	ug/l	99
85) sec-Butylbenzene	13.25	105	31177	2.768	ug/l	100
86) p-Isopropyltoluene	13.37	119	27424	2.625	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	15256	2.847	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	16338	3.066	ug/l	91
89) n-Butylbenzene	13.70	91	26170	2.743	ug/l	99
90) Hexachloroethane	13.96	117	4948	2.814	ug/l	97
91) 1,2-Dichlorobenzene	13.74	146	13164	2.766	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1318	3.011	ug/l	92

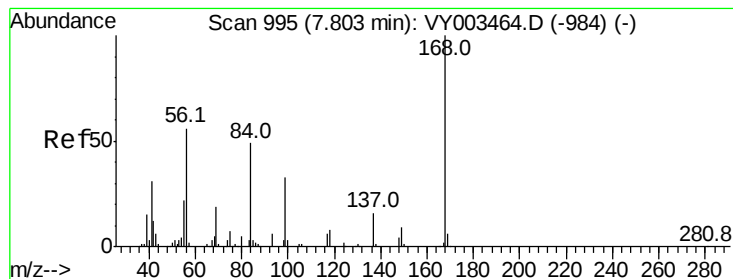
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	9963	2.959	ug/l	98
94) Hexachlorobutadiene	15.11	225	6595	3.045	ug/l	96
95) Naphthalene	15.23	128	19076	2.829	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	8470	2.797	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

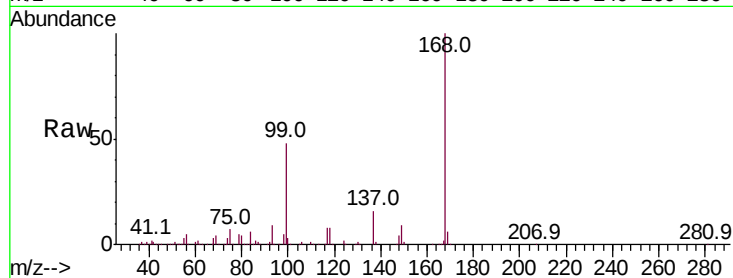
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:168 Resp: 271840

Ion Ratio Lower Upper

168 100

99 48.0 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY003464.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY003464.D (-984) (-)

7.80

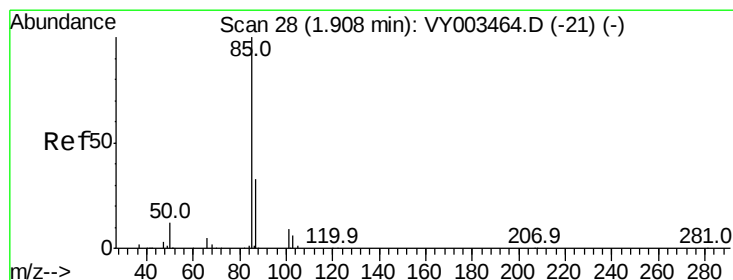
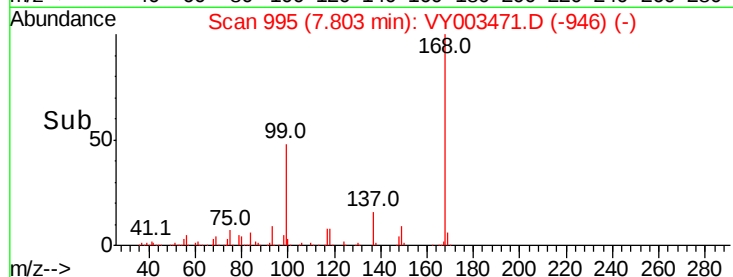
100000

50000

0

7.70 7.80 7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 2.853 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.00 min

Lab File: VY003471.D

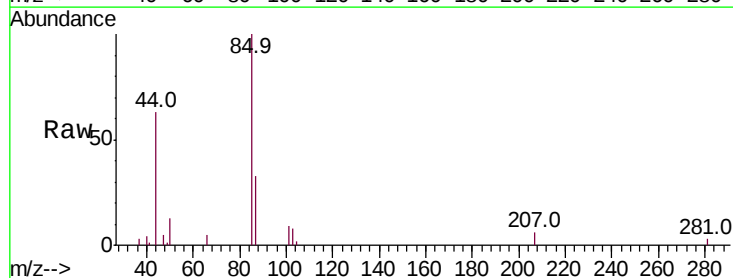
Acq: 02 Nov 2020 14:42

Tgt Ion: 85 Resp: 6137

Ion Ratio Lower Upper

85 100

87 32.6 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VY003464.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY003464.D (-21) (-)

1.91

5000

4000

3000

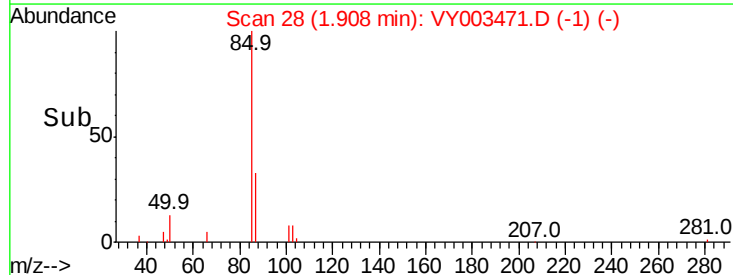
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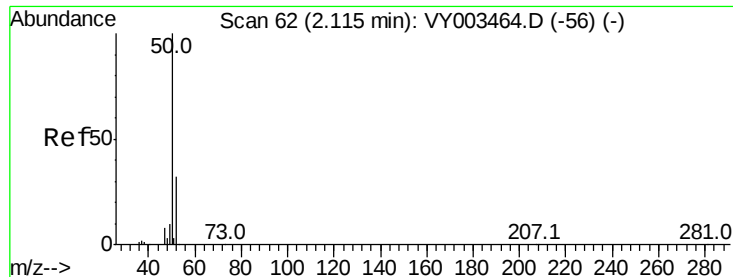
1000

0

1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 2.832 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

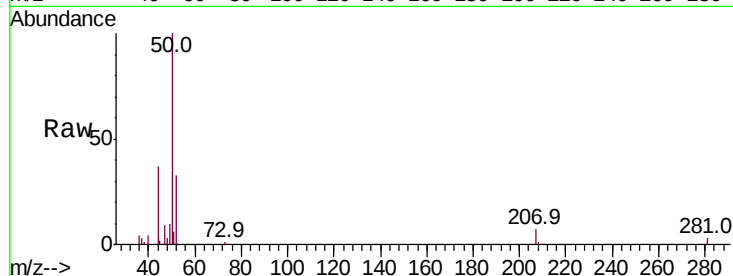
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 50 Resp: 8020

Ion Ratio Lower Upper

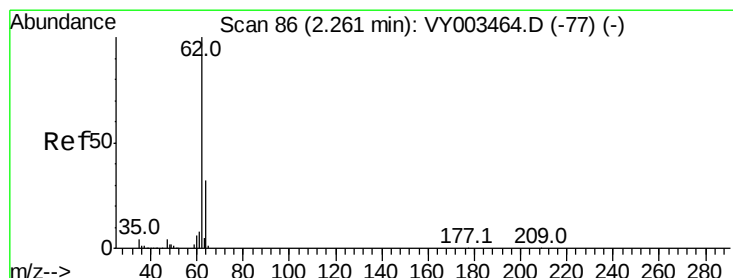
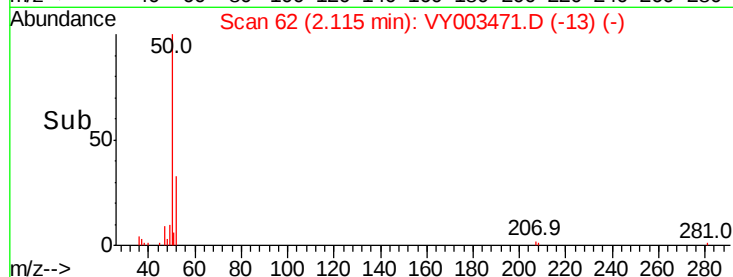
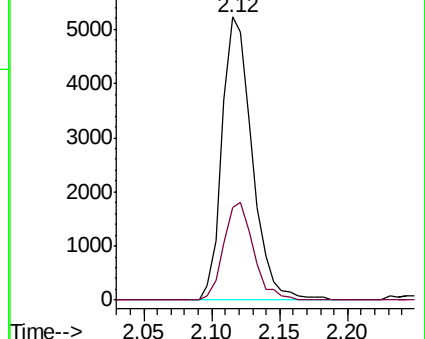
50 100

52 32.9 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 2.797 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY003471.D

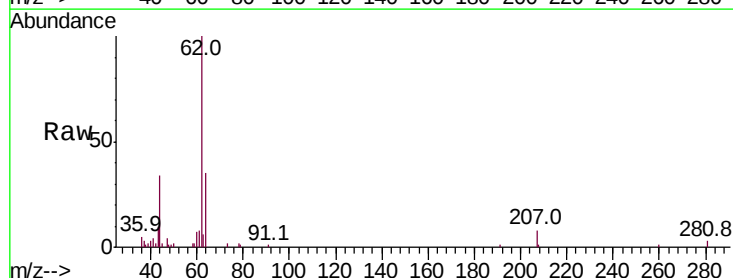
Acq: 02 Nov 2020 14:42

Tgt Ion: 62 Resp: 8891

Ion Ratio Lower Upper

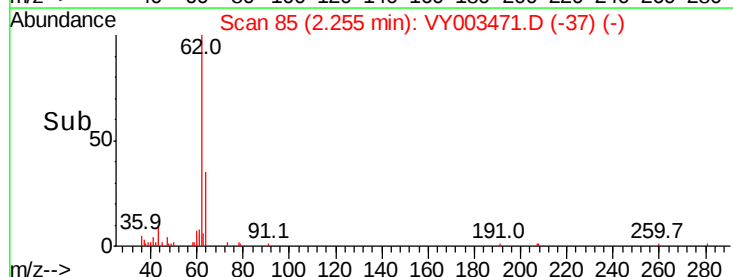
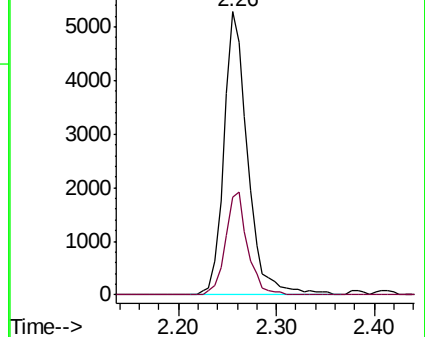
62 100

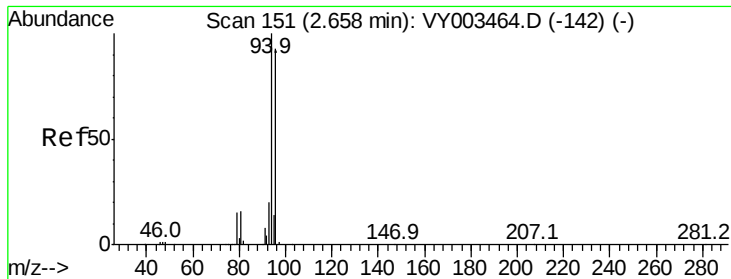
64 34.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 2.808 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

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ClientSampleId :

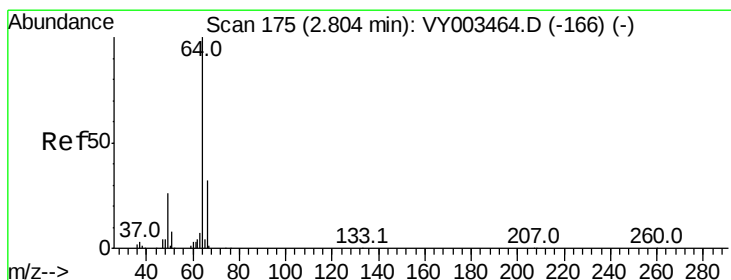
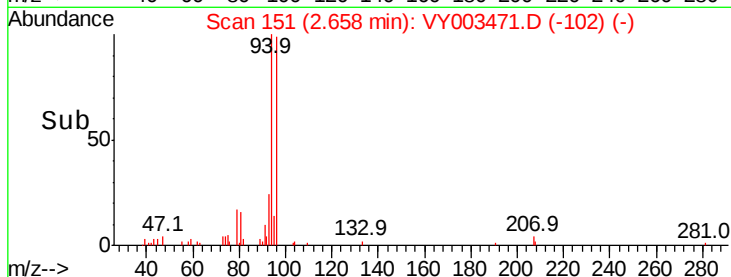
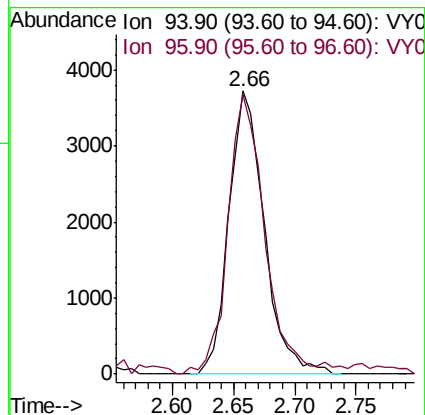
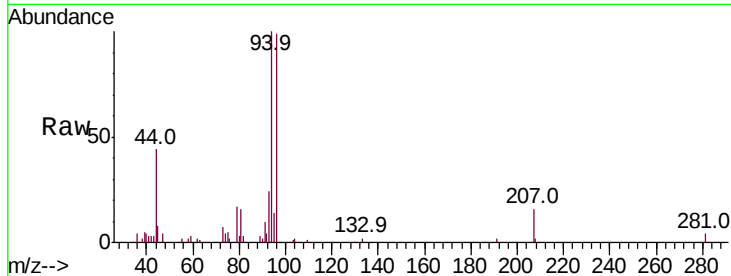
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 94 Resp: 7458

Ion Ratio Lower Upper

94 100

96 96.6 74.6 112.0



#6

Chloroethane

Concen: 2.804 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY003471.D

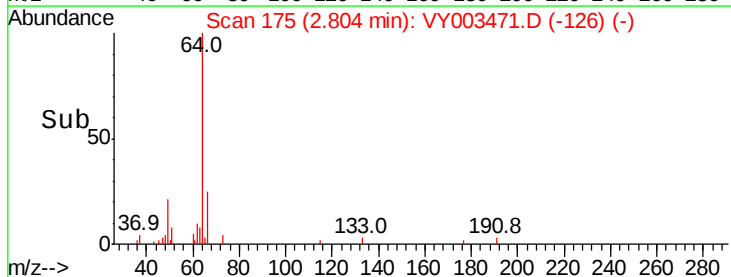
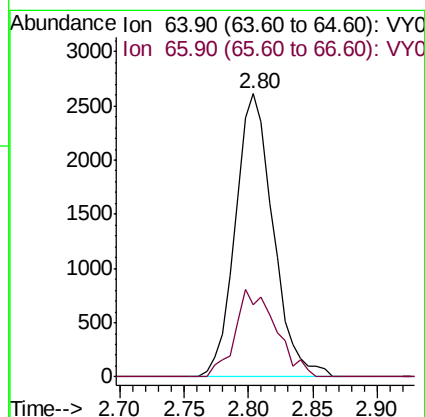
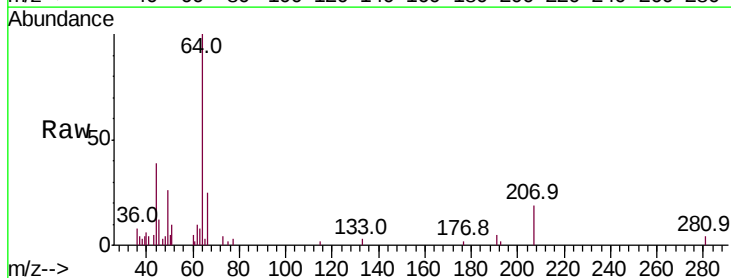
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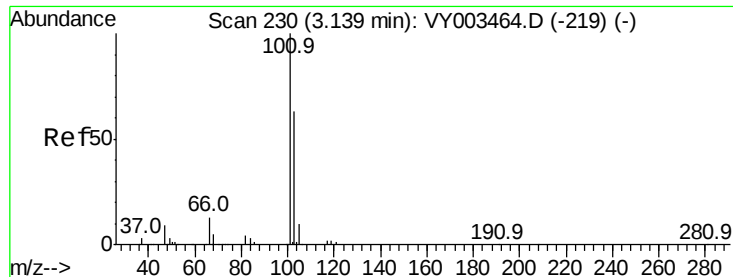
Tgt Ion: 64 Resp: 5312

Ion Ratio Lower Upper

64 100

66 25.4 25.6 38.4#





#7

Trichlorofluoromethane

Concen: 3.057 ug/l

RT: 3.13 min Scan# 229

Delta R.T. -0.01 min

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Acq: 02 Nov 2020 14:42

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ClientSampleId :

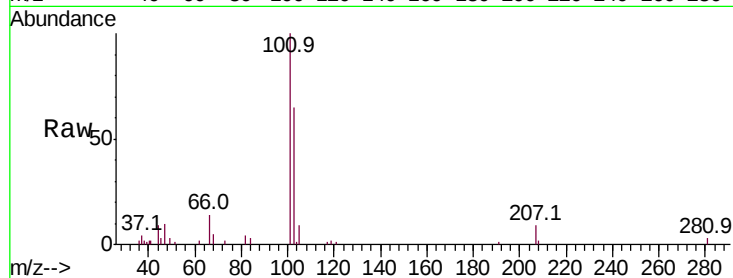
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:101 Resp: 12333

Ion Ratio Lower Upper

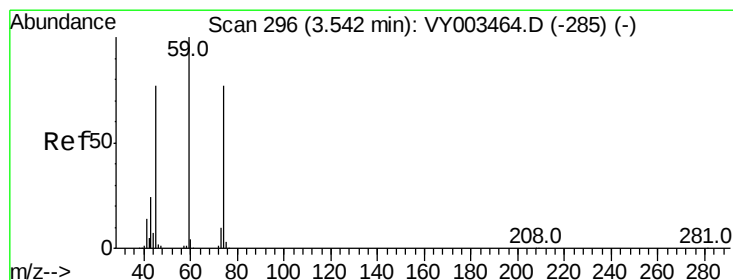
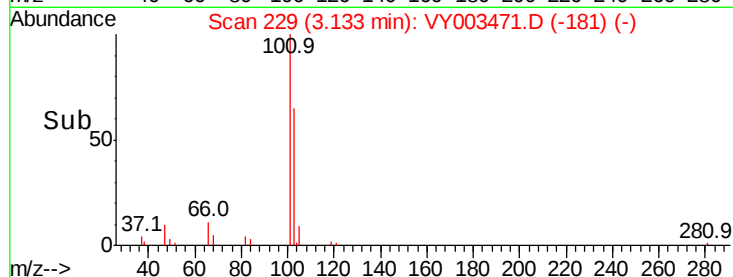
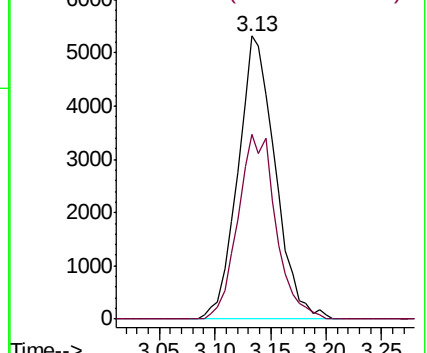
101 100

103 65.2 50.7 76.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.684 ug/l

RT: 3.54 min Scan# 296

Delta R.T. -0.00 min

Lab File: VY003471.D

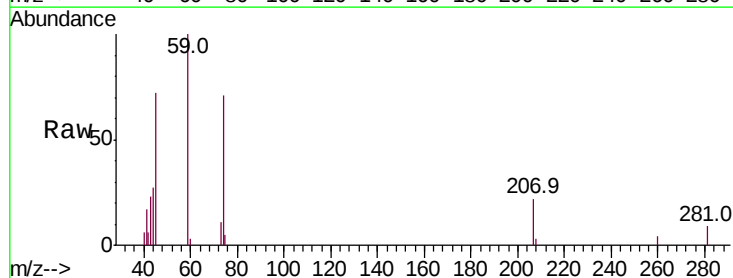
Acq: 02 Nov 2020 14:42

Tgt Ion: 74 Resp: 3321

Ion Ratio Lower Upper

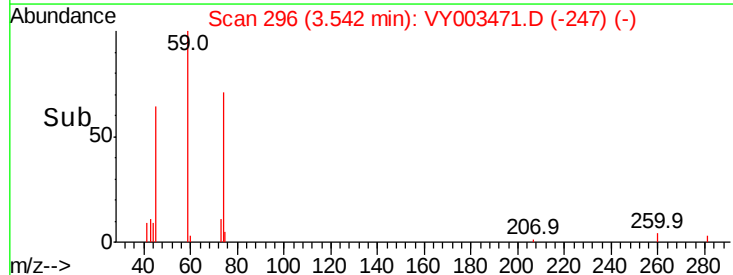
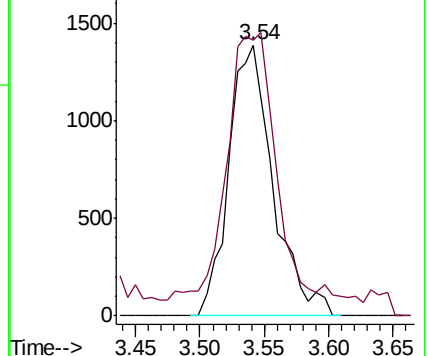
74 100

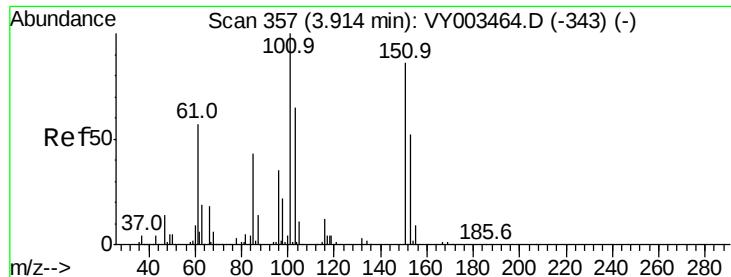
45 115.2 50.7 152.3



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: 3.031 ug/l

RT: 3.91 min Scan# 357

Delta R.T. -0.00 min

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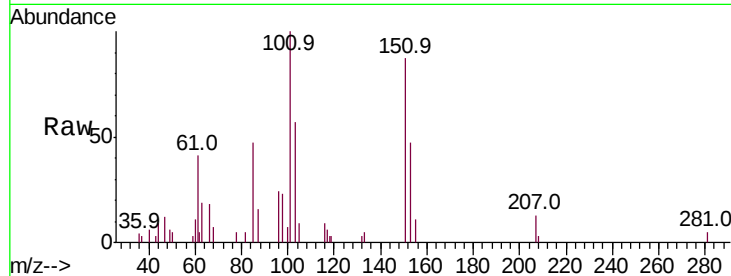
Tot Ion:101 Resp: 6759

Ion Ratio Lower Upper

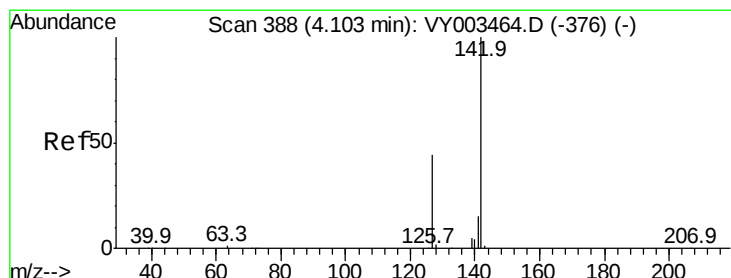
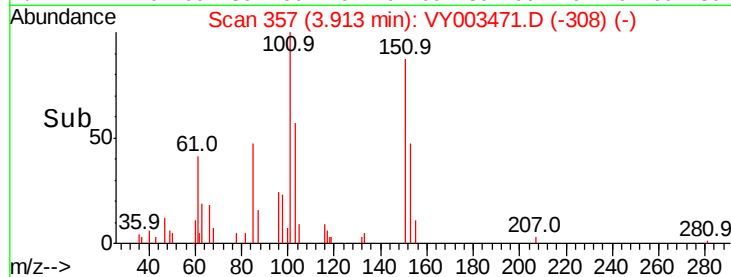
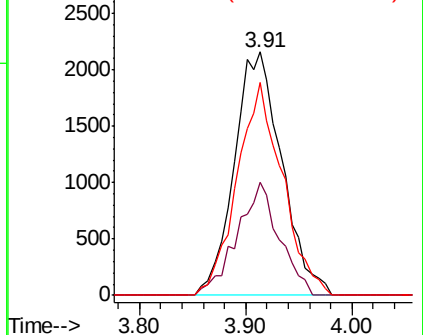
101 100

85 41.0 35.8 53.8

151 83.2 67.6 101.4



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: 3.050 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

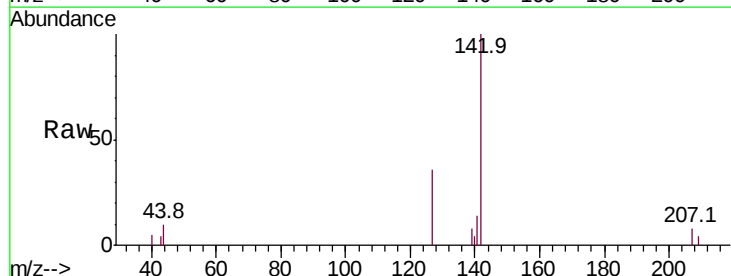
Tgt Ion:142 Resp: 5612

Ion Ratio Lower Upper

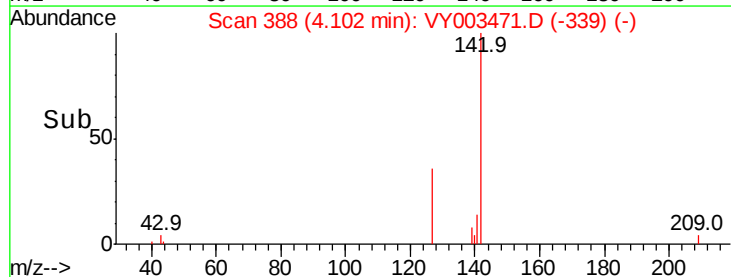
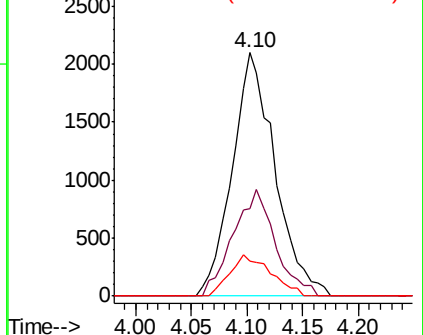
142 100

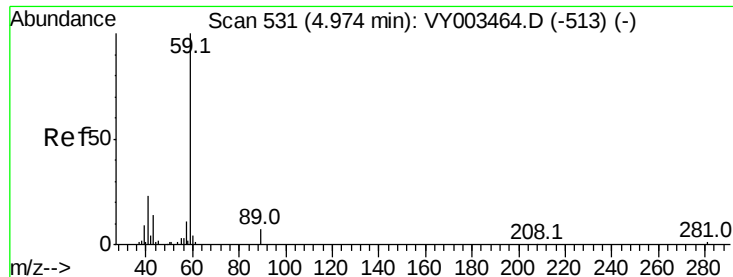
127 43.2 34.5 51.7

141 16.1 11.8 17.8



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



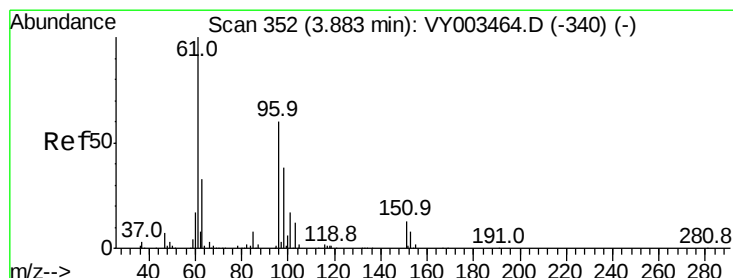
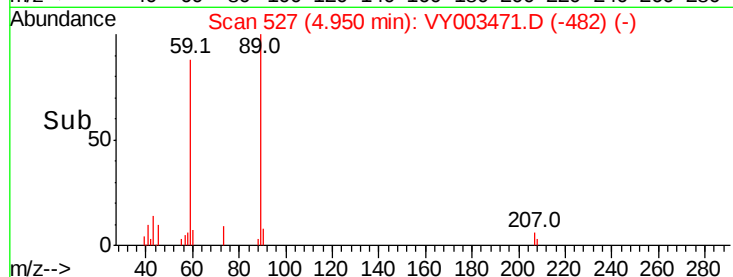
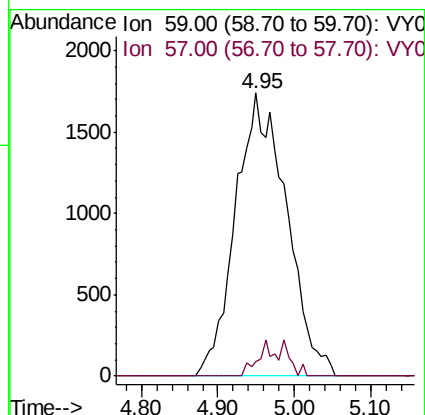
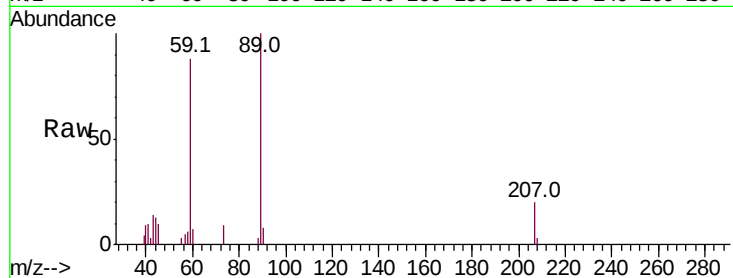


#11

Tert butyl alcohol
Concen: 25.581 ug/l
RT: 4.95 min Scan# 527
Delta R.T. -0.02 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

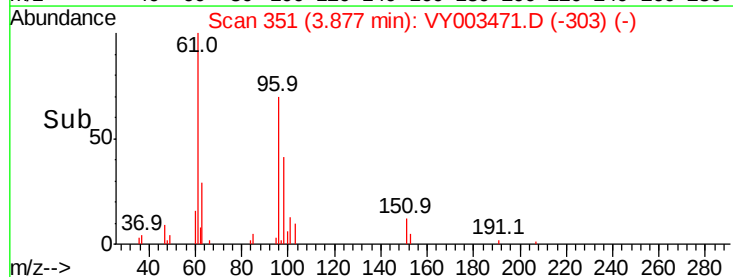
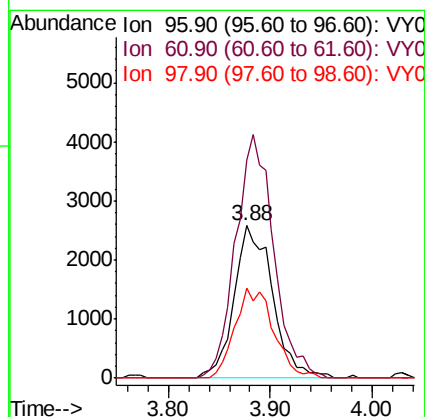
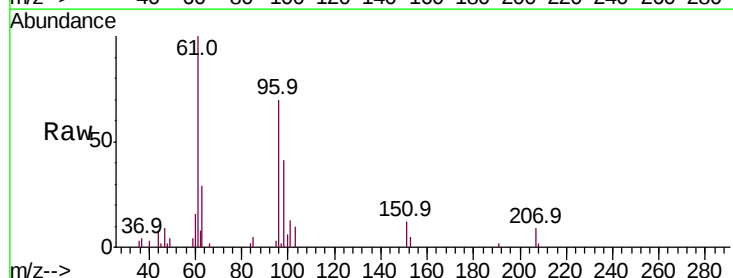
Tot Ion: 59 Resp: 8049
Ion Ratio Lower Upper
59 100
57 4.1 7.9 11.9#

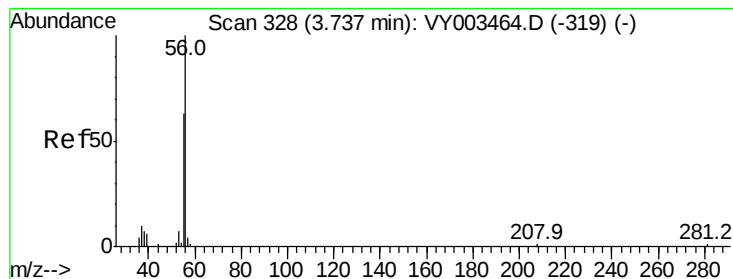


#12

1,1-Dichloroethene
Concen: 3.046 ug/l
RT: 3.88 min Scan# 351
Delta R.T. -0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 96 Resp: 6758
Ion Ratio Lower Upper
96 100
61 142.9 133.6 200.4
98 59.1 50.2 75.2





#13

Acrolein

Concen: 14.459 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

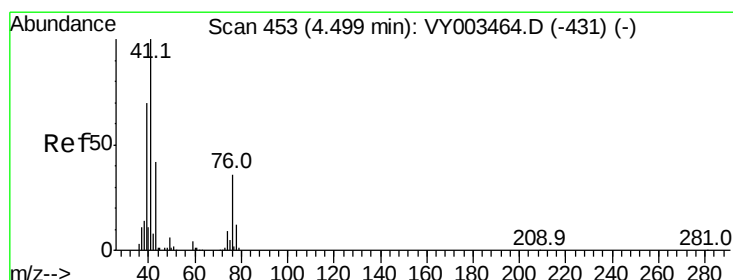
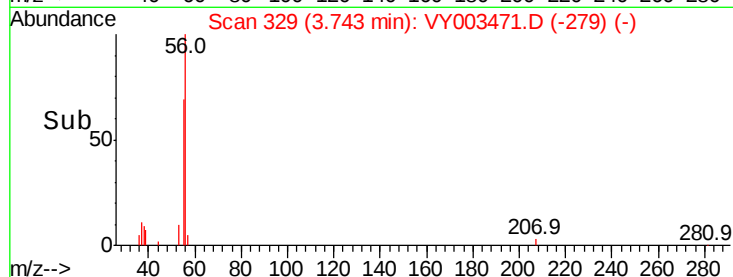
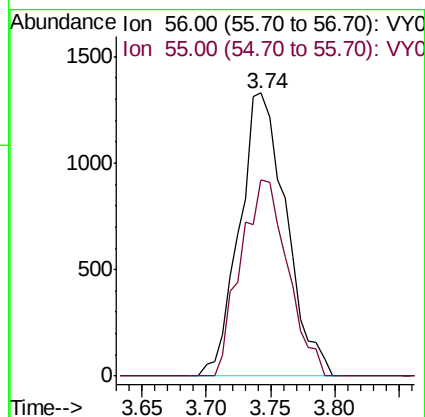
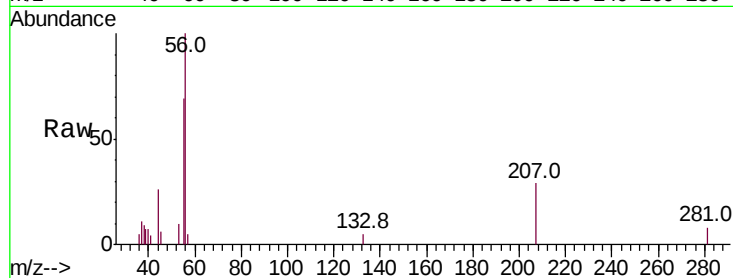
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 56 Resp: 3344

Ion Ratio Lower Upper

56 100

55 69.7 56.6 85.0



#14

Allyl chloride

Concen: 2.671 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

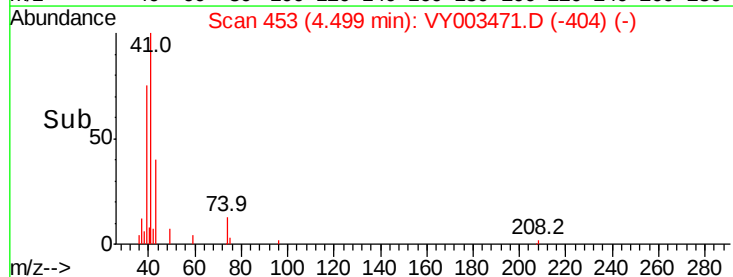
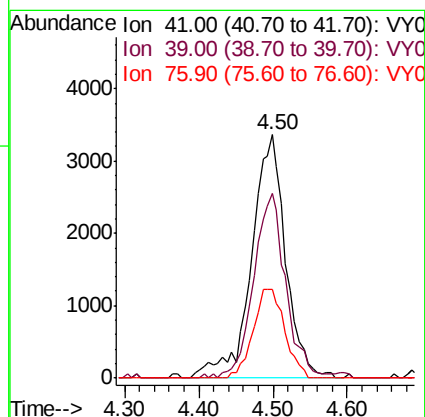
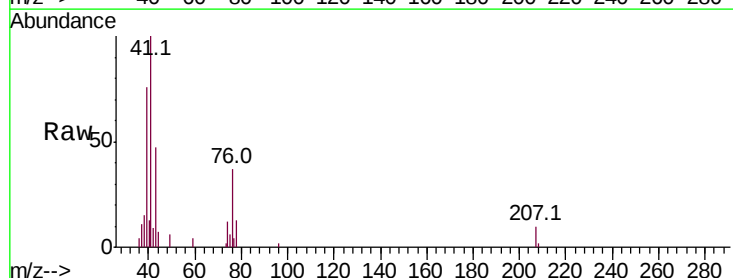
Tgt Ion: 41 Resp: 10812

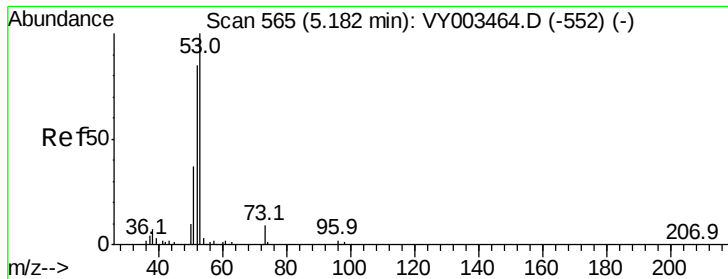
Ion Ratio Lower Upper

41 100

39 70.6 54.4 81.6

76 33.7 27.6 41.4





#15

Acrylonitrile

Concen: 12.891 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

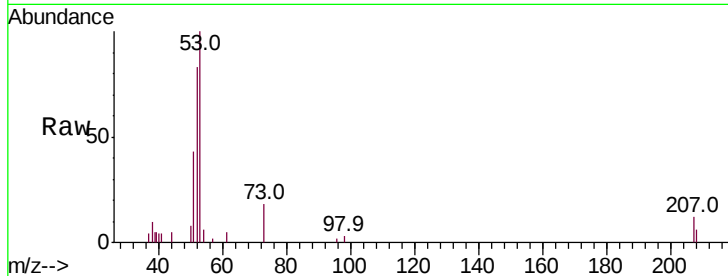
Tot Ion: 53 Resp: 8513

Ion Ratio Lower Upper

53 100

52 83.6 66.9 100.3

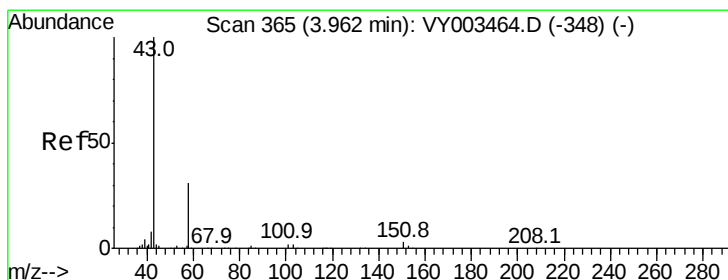
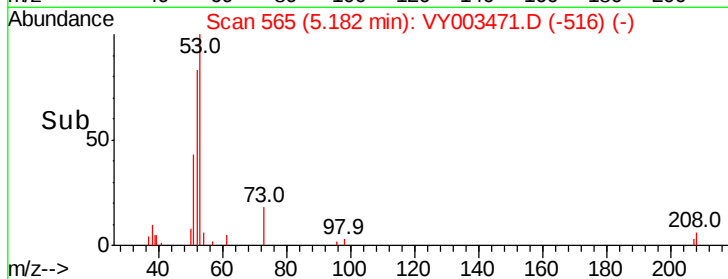
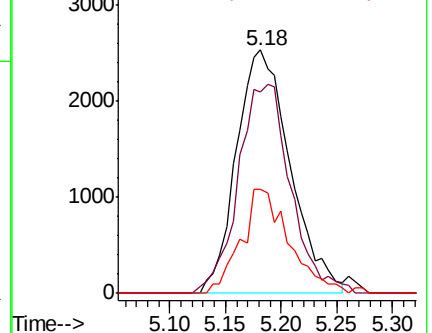
51 38.4 29.3 43.9



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 11.863 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VY003471.D

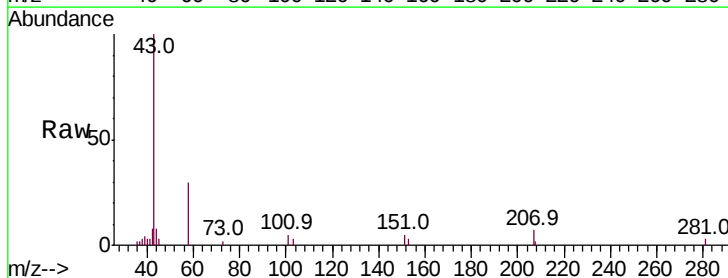
Acq: 02 Nov 2020 14:42

Tgt Ion: 43 Resp: 10906

Ion Ratio Lower Upper

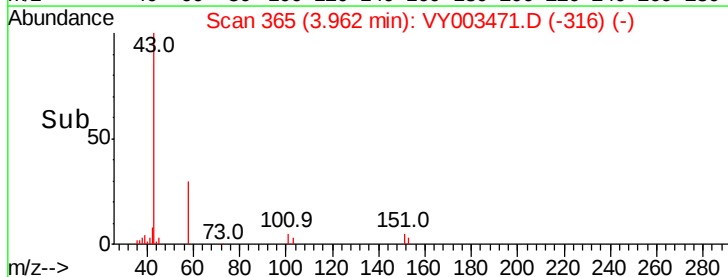
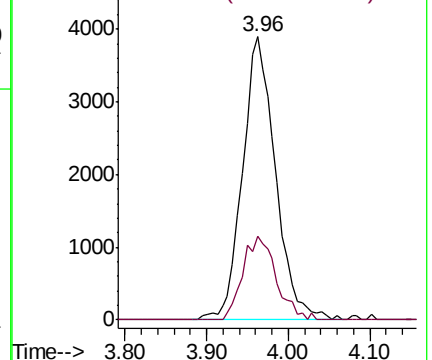
43 100

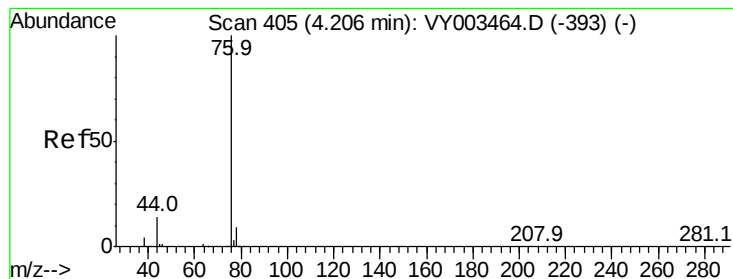
58 29.6 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#17

Carbon Disulfide

Concen: 2.815 ug/l

RT: 4.21 min Scan# 405

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

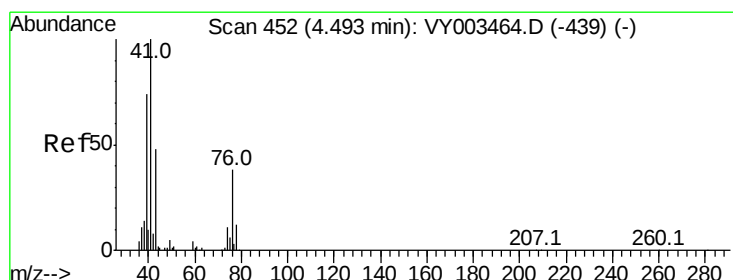
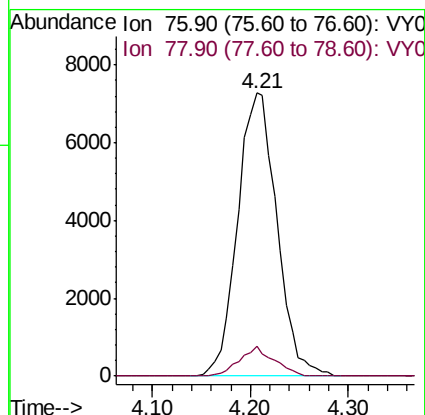
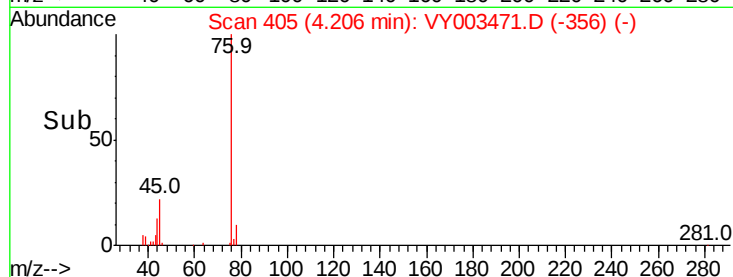
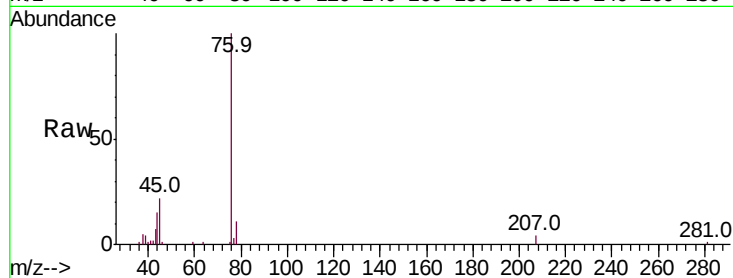
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 76 Resp: 20232

Ion Ratio Lower Upper

76 100

78 10.7 7.4 11.2



#18

Methyl Acetate

Concen: 3.002 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.00 min

Lab File: VY003471.D

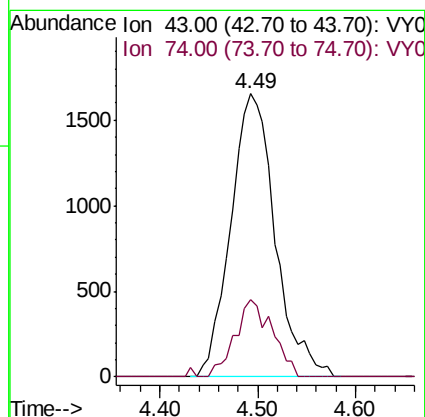
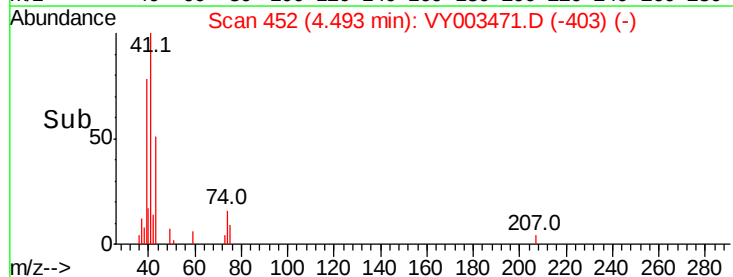
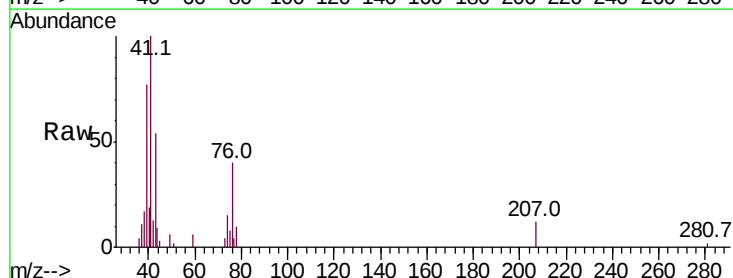
Acq: 02 Nov 2020 14:42

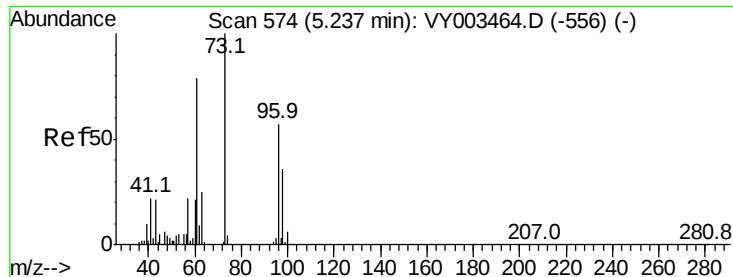
Tgt Ion: 43 Resp: 5216

Ion Ratio Lower Upper

43 100

74 22.9 18.4 27.6



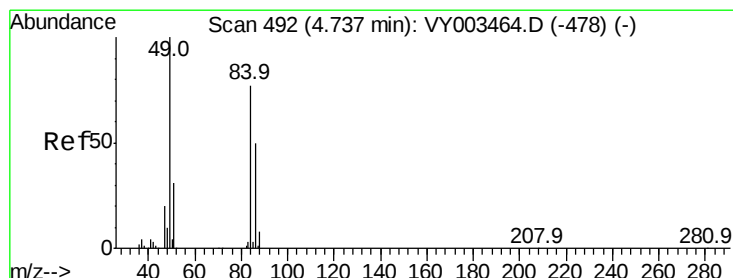
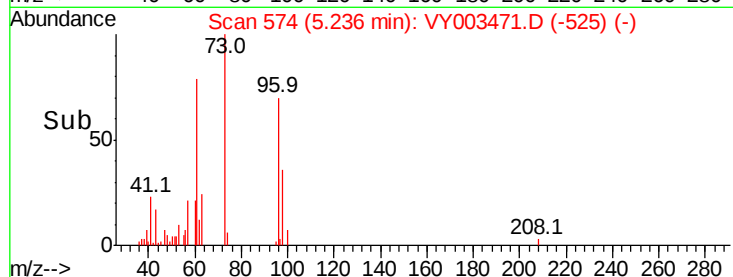
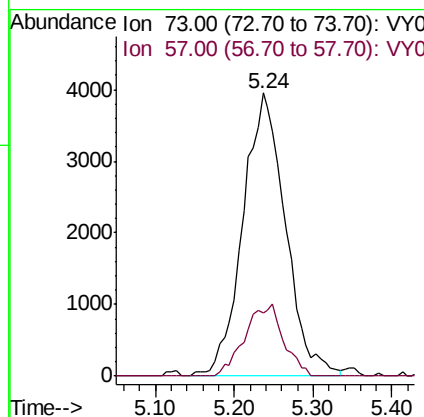
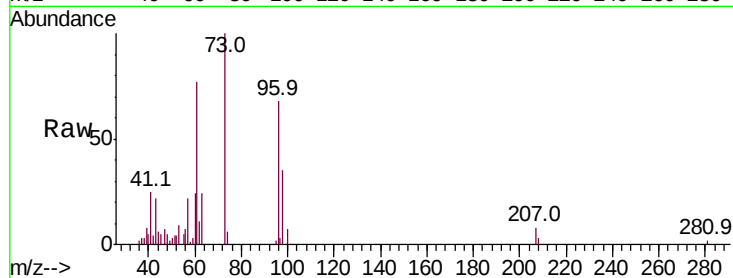


#19

Methyl tert-butyl Ether
 Concen: 2.699 ug/l
 RT: 5.24 min Scan# 574
 Delta R.T. -0.00 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

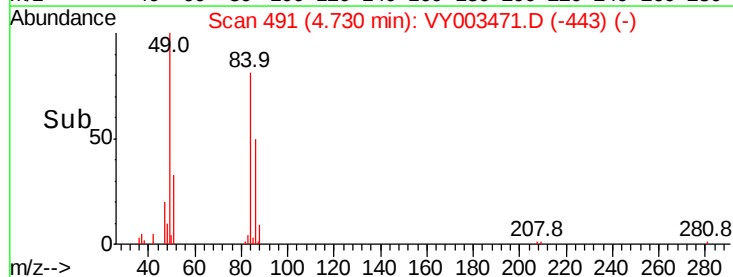
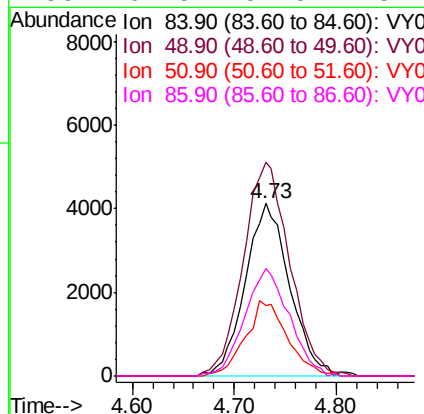
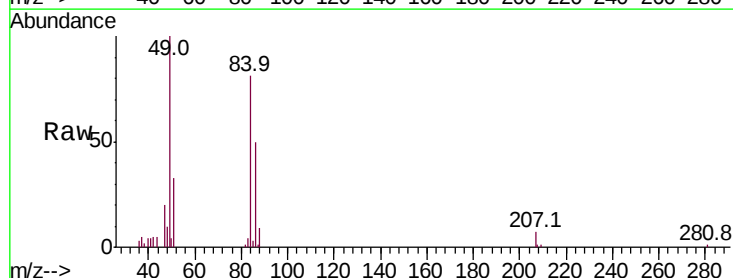
Tot Ion: 73 Resp: 14833
 Ion Ratio Lower Upper
 73 100
 57 22.3 17.2 25.8

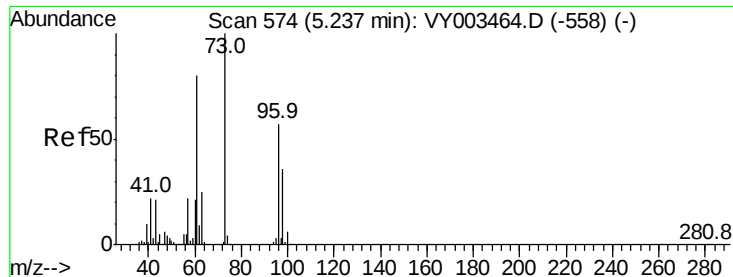


#20

Methylene Chloride
 Concen: 4.821 ug/l
 RT: 4.73 min Scan# 491
 Delta R.T. -0.01 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Tgt Ion: 84 Resp: 12481
 Ion Ratio Lower Upper
 84 100
 49 123.8 104.3 156.5
 51 40.6 32.5 48.7
 86 62.5 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 3.015 ug/l

RT: 5.24 min Scan# 574

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

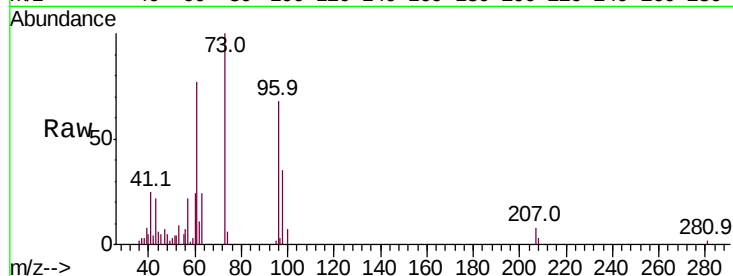
Tot Ion: 96 Resp: 7746

Ion Ratio Lower Upper

96 100

61 112.7 111.3 166.9

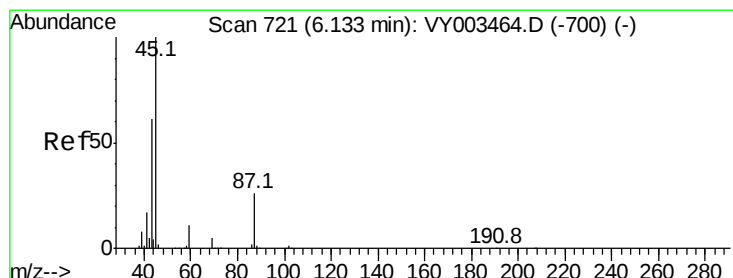
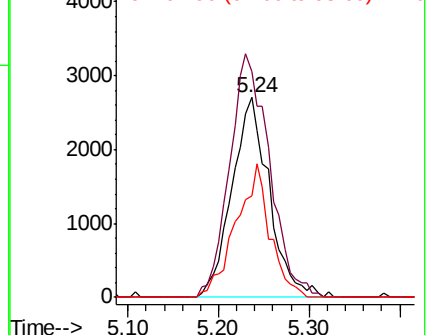
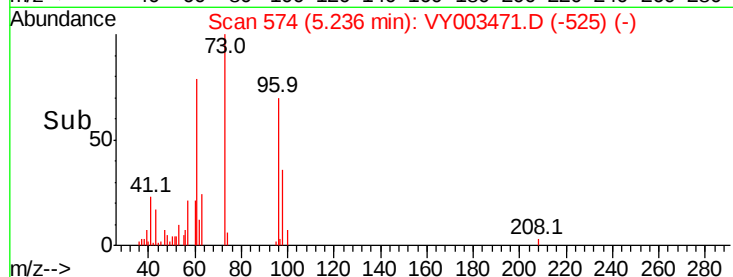
98 50.7 50.3 75.5



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: 2.558 ug/l

RT: 6.13 min Scan# 721

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Tgt Ion: 45 Resp: 18158

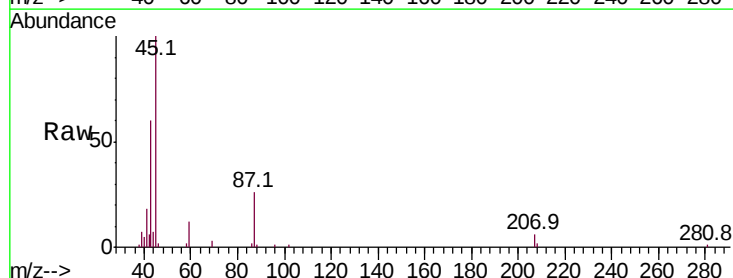
Ion Ratio Lower Upper

45 100

43 58.5 48.8 73.2

87 25.5 20.6 31.0

59 12.3 9.0 13.4

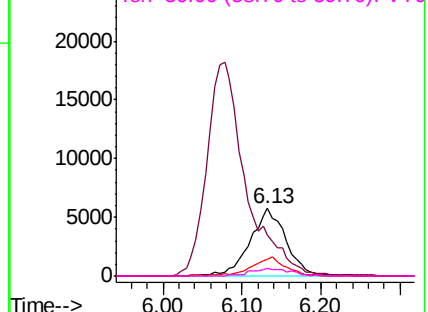
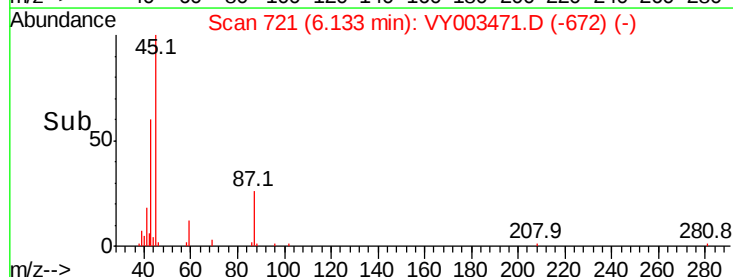


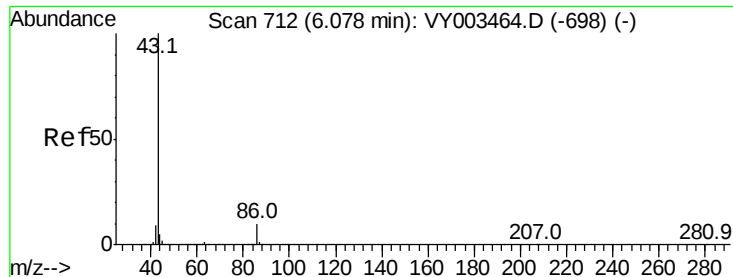
Abundance Ion 45.00 (44.70 to 45.70): VY0

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: 11.753 ug/l

RT: 6.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

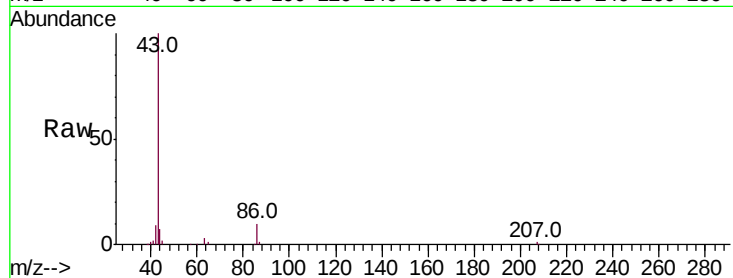
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 62698

Ion Ratio Lower Upper

43 100

86 10.2 8.2 12.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0

6.08

20000

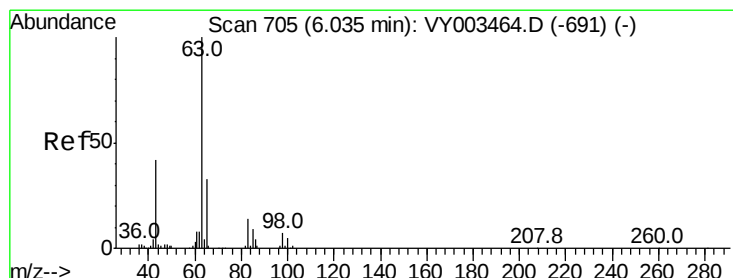
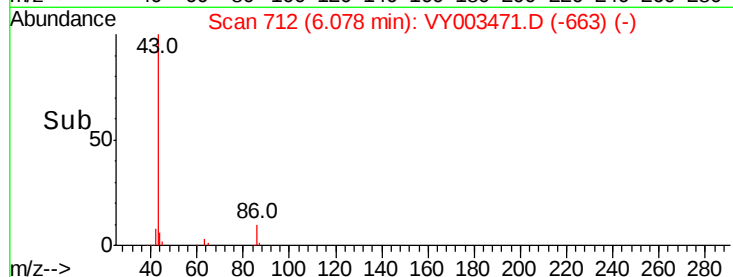
15000

10000

5000

0

Time--> 5.90 6.00 6.10 6.20 6.30



#24

1,1-Dichloroethane

Concen: 2.775 ug/l

RT: 6.03 min Scan# 704

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

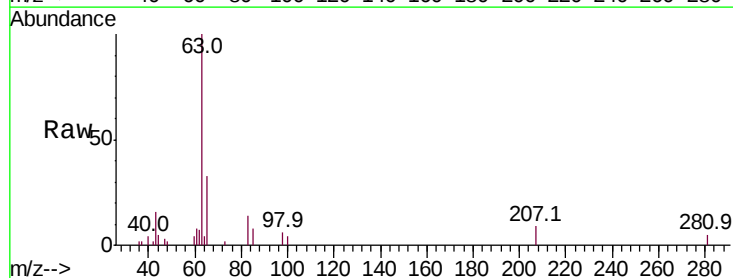
Tgt Ion: 63 Resp: 12519

Ion Ratio Lower Upper

63 100

98 5.5 3.6 10.8

100 4.4 2.3 6.9



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

6.03

5000

4000

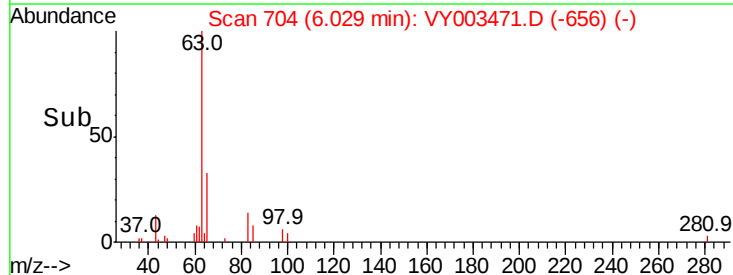
3000

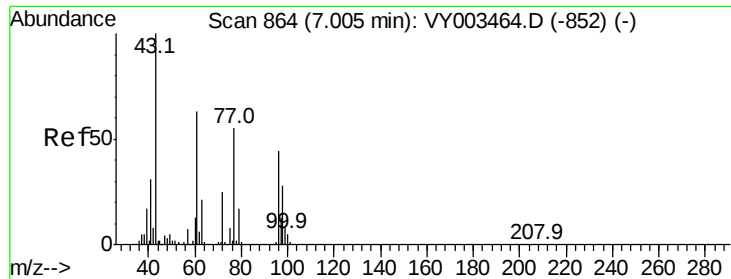
2000

1000

0

Time--> 5.90 6.00 6.10





#25

2-Butanone

Concen: 11.904 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

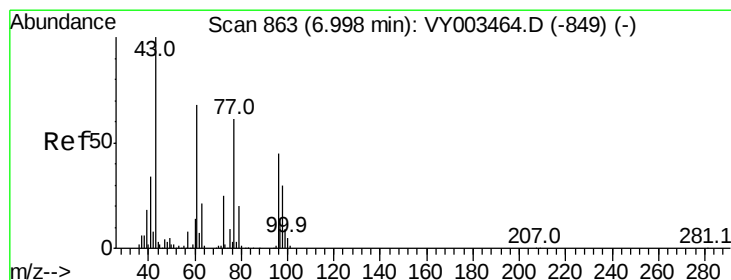
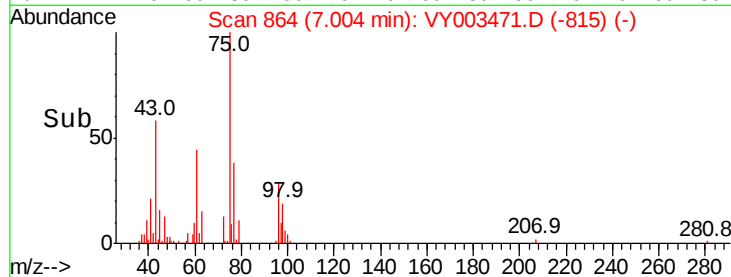
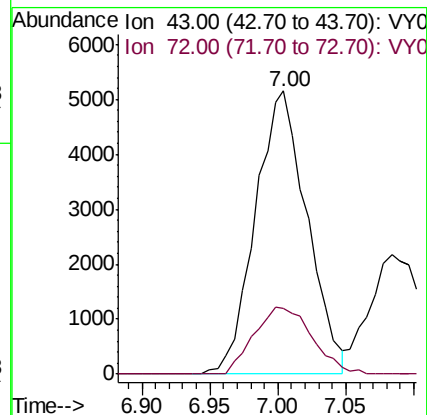
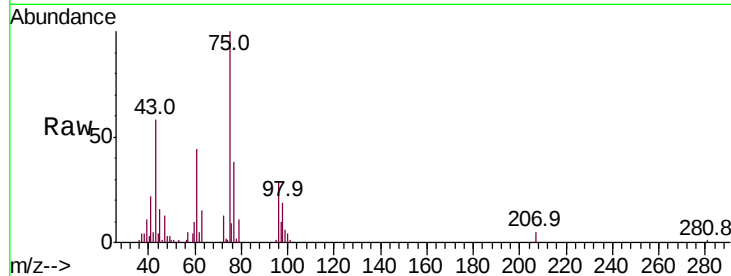
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 13687

Ion Ratio Lower Upper

43 100

72 23.1 20.1 30.1



#26

2,2-Dichloropropane

Concen: 3.023 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY003471.D

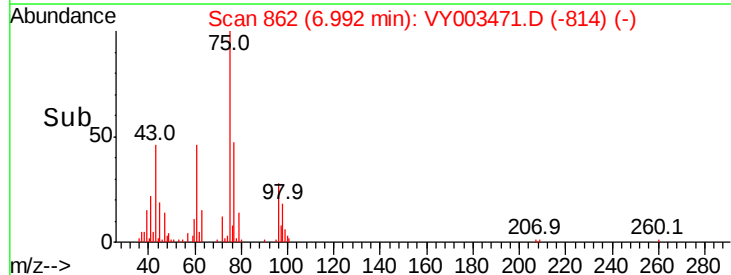
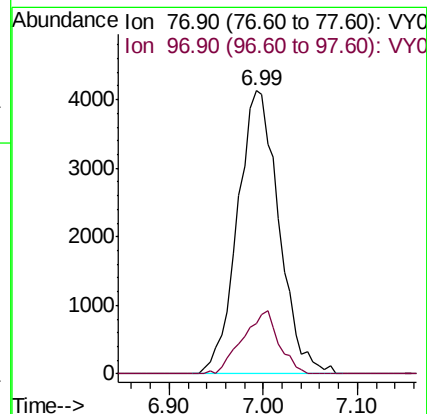
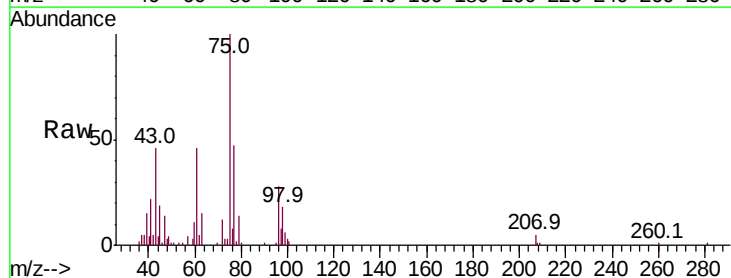
Acq: 02 Nov 2020 14:42

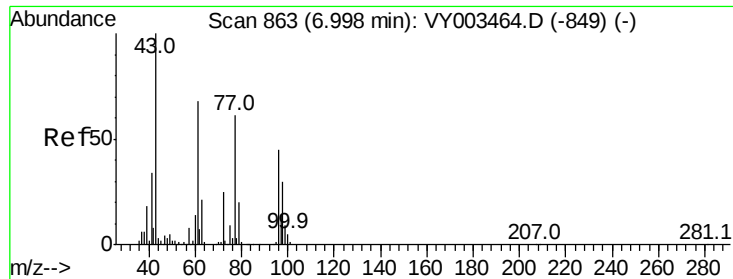
Tgt Ion: 77 Resp: 12704

Ion Ratio Lower Upper

77 100

97 19.5 11.2 33.6



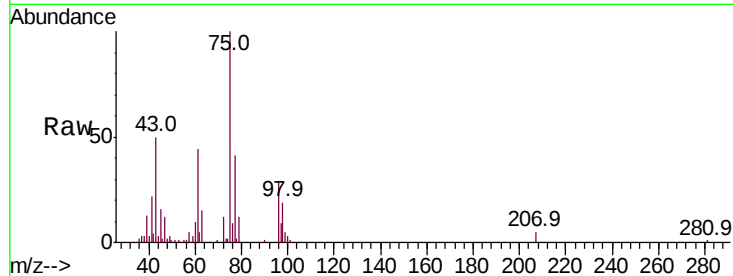


#27

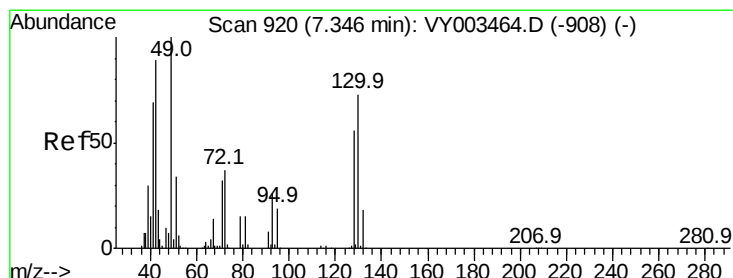
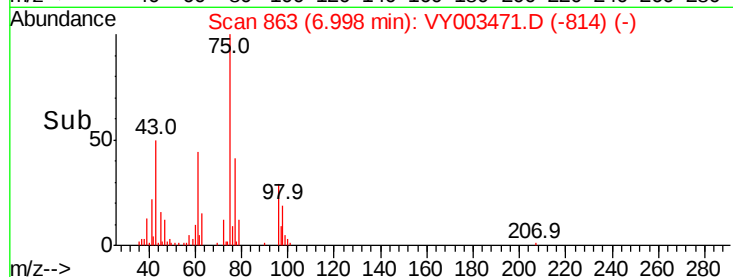
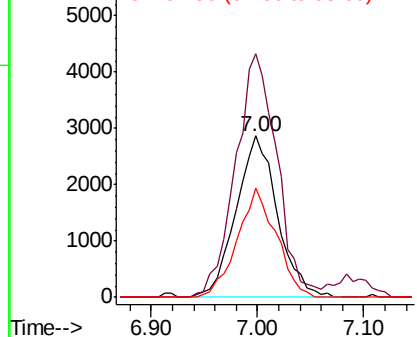
cis-1,2-Dichloroethene
Concen: 2.808 ug/l
RT: 7.00 min Scan# 863
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 96 Resp: 7816
Ion Ratio Lower Upper
96 100
61 151.4 0.0 299.2
98 63.3 0.0 128.6



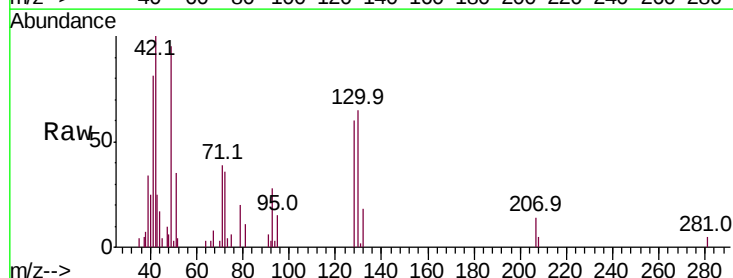
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



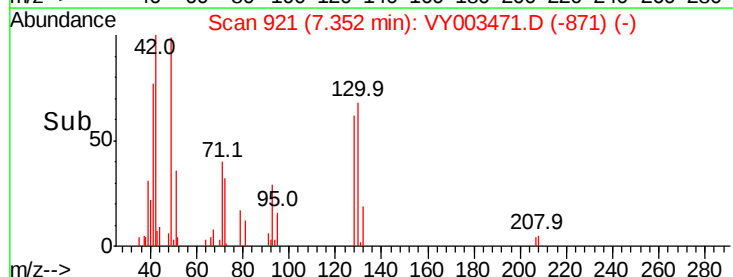
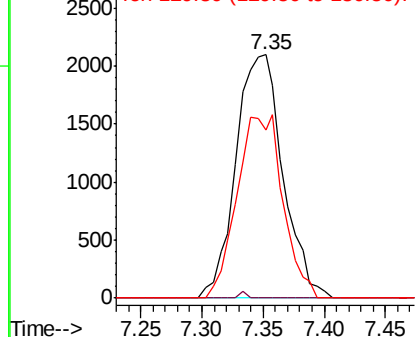
#28

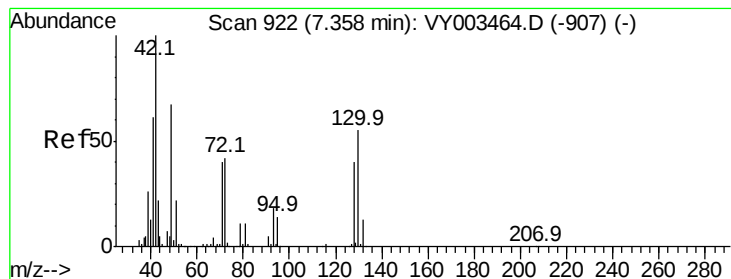
Bromochloromethane
Concen: 2.468 ug/l
RT: 7.35 min Scan# 921
Delta R.T. 0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 49 Resp: 5602
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 73.0 60.0 90.0



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: 12.326 ug/l

RT: 7.36 min Scan# 922

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

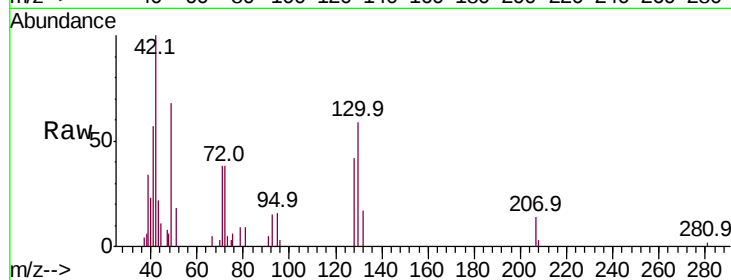
Tot Ion: 42 Resp: 7406

Ion Ratio Lower Upper

42 100

72 39.2 32.8 49.2

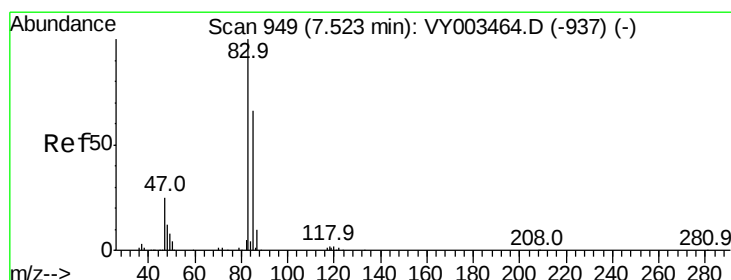
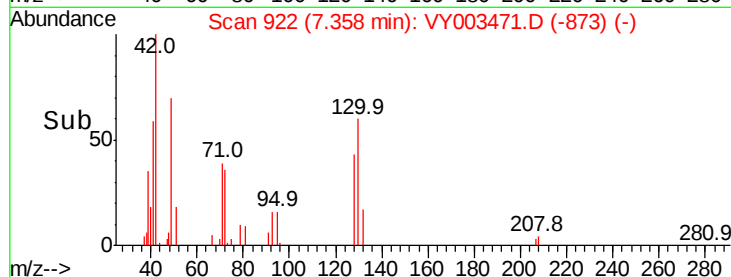
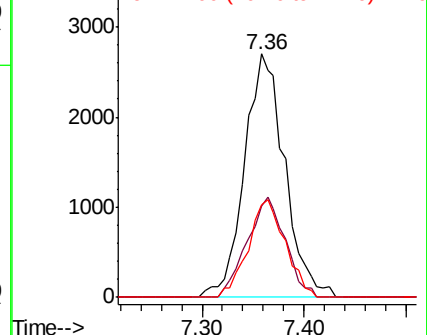
71 37.1 30.7 46.1



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 2.812 ug/l

RT: 7.52 min Scan# 949

Delta R.T. -0.00 min

Lab File: VY003471.D

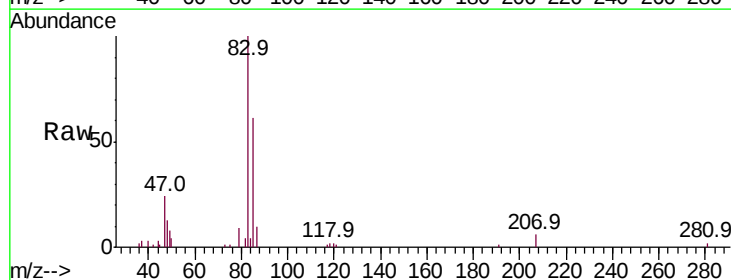
Acq: 02 Nov 2020 14:42

Tgt Ion: 83 Resp: 12460

Ion Ratio Lower Upper

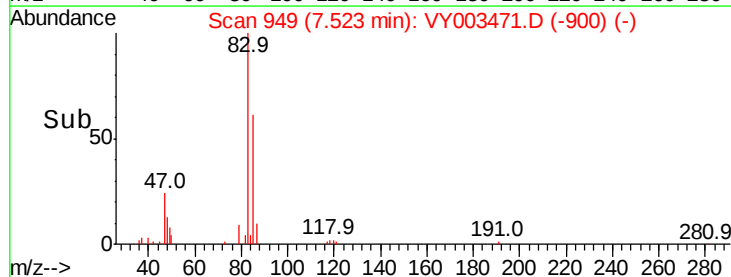
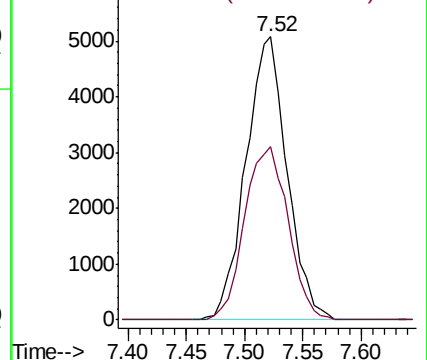
83 100

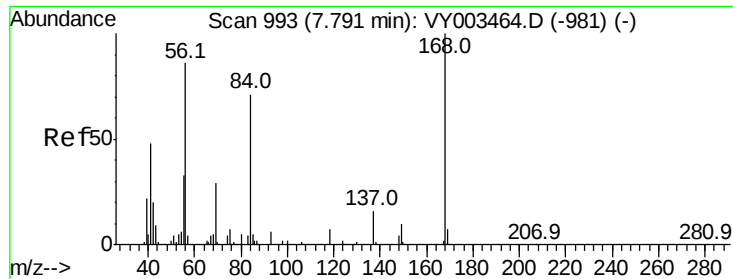
85 61.3 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

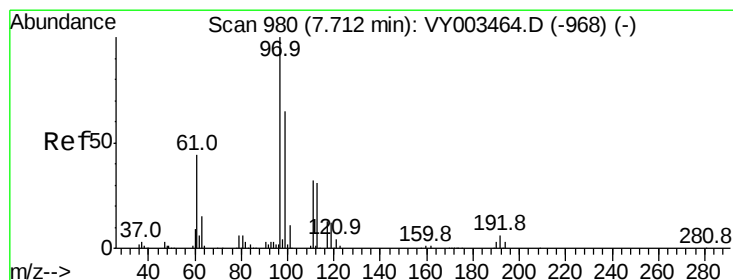
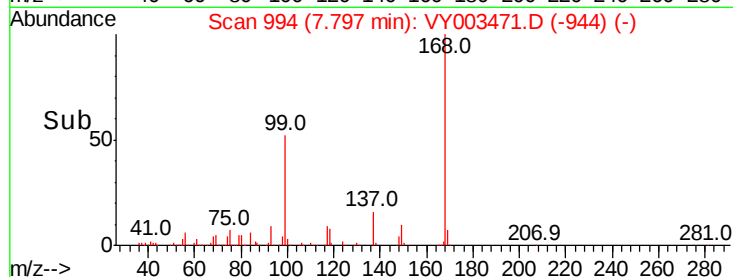
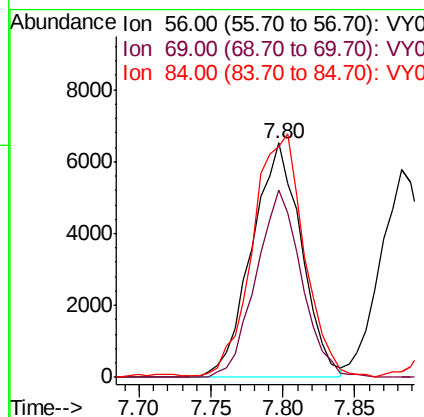
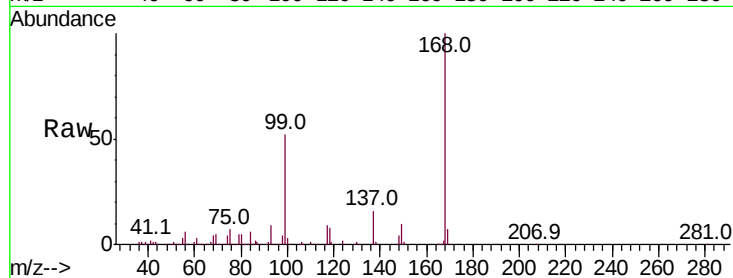




#31
Cyclohexane
Concen: 3.734 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

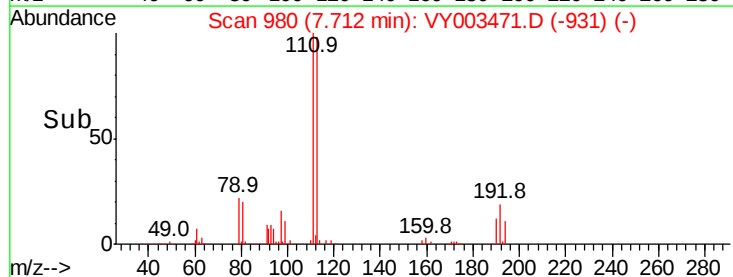
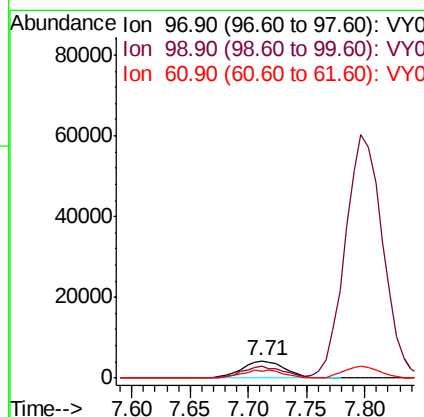
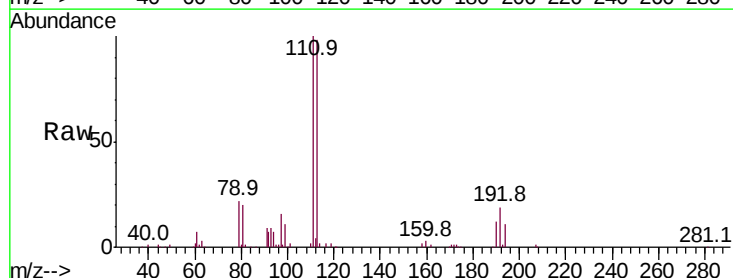
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

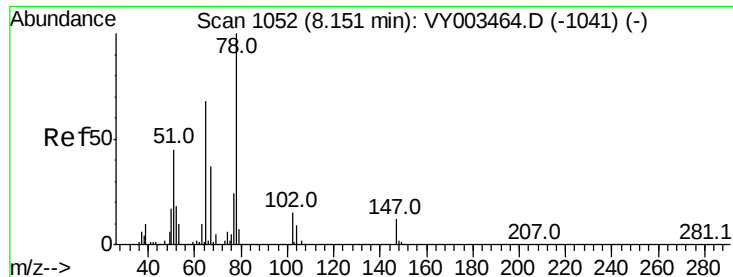
Tot Ion: 56 Resp: 15597
Ion Ratio Lower Upper
56 100
69 79.9 26.6 39.8#
84 97.4 65.9 98.9



#32
1,1,1-Trichloroethane
Concen: 2.654 ug/l
RT: 7.71 min Scan# 980
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 97 Resp: 10970
Ion Ratio Lower Upper
97 100
99 64.4 51.6 77.4
61 46.5 35.1 52.7

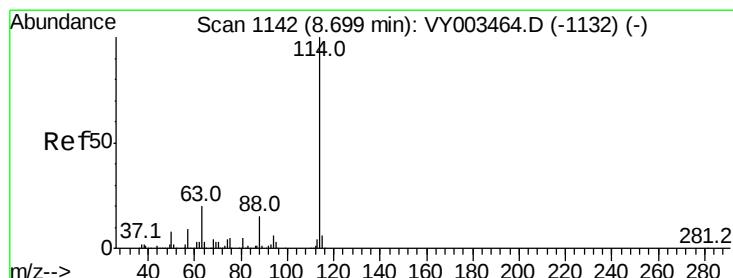
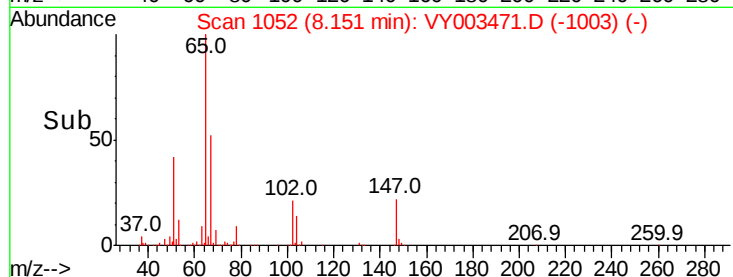
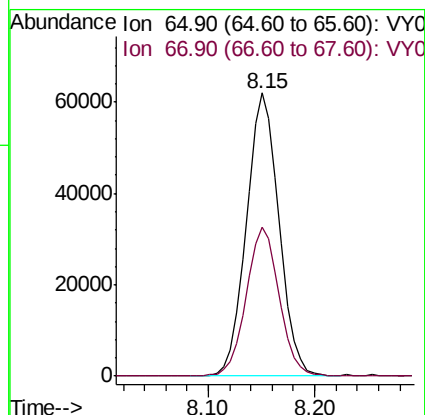
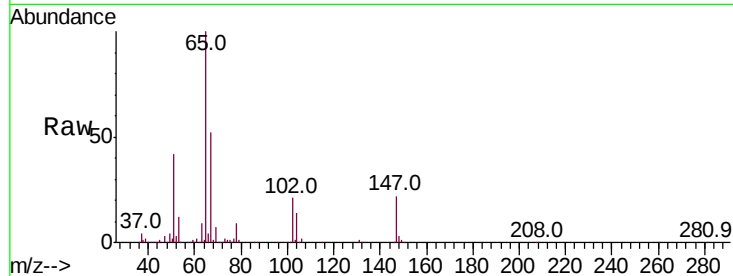




#33
 1,2-Dichloroethane-d4
 Concen: 47.883 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

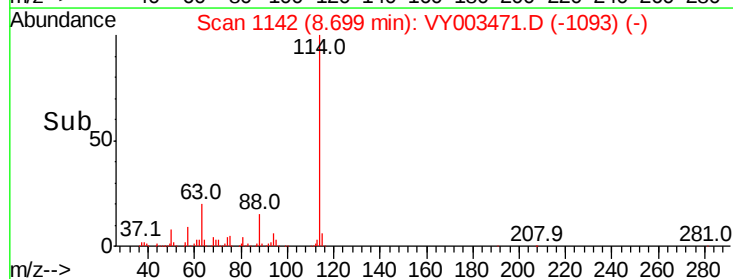
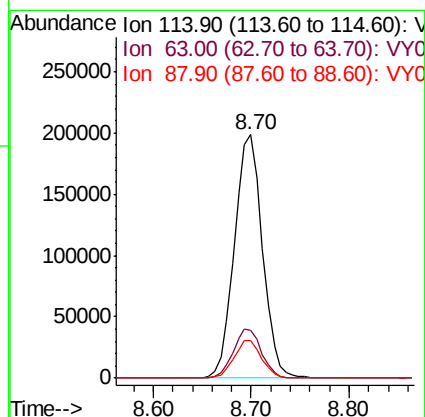
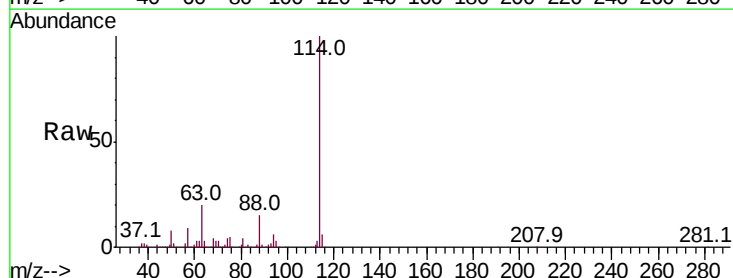
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

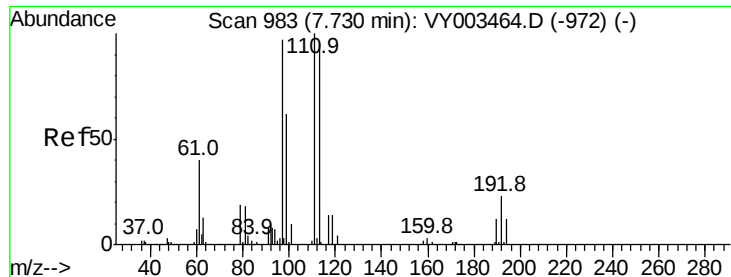
Tot Ion: 65 Resp: 133444
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Tgt Ion: 114 Resp: 394782
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.6
 88 15.5 0.0 29.4





#35

Dibromofluoromethane

Concen: 49.939 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

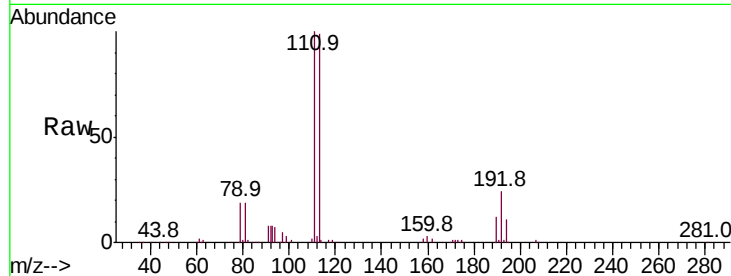
Tot Ion:113 Resp: 119971

Ion Ratio Lower Upper

113 100

111 100.9 81.8 122.6

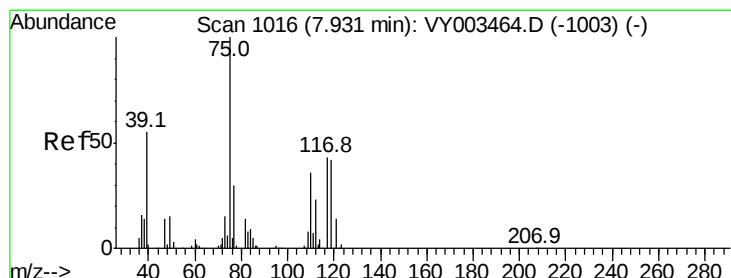
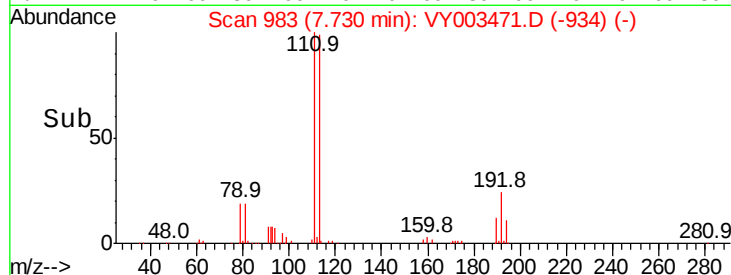
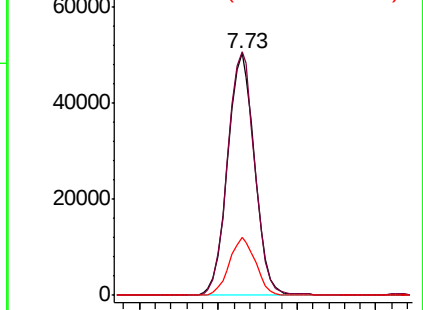
192 23.1 18.8 28.2



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: 2.900 ug/l

RT: 7.92 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

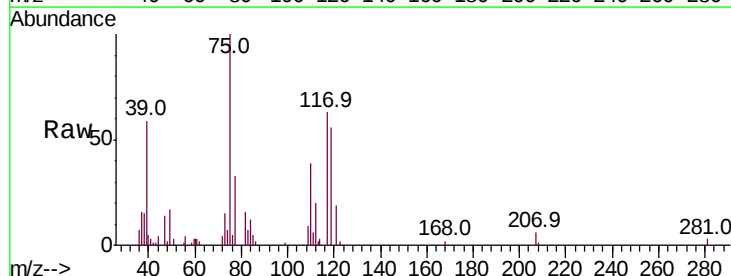
Tgt Ion: 75 Resp: 10796

Ion Ratio Lower Upper

75 100

110 35.3 17.6 52.9

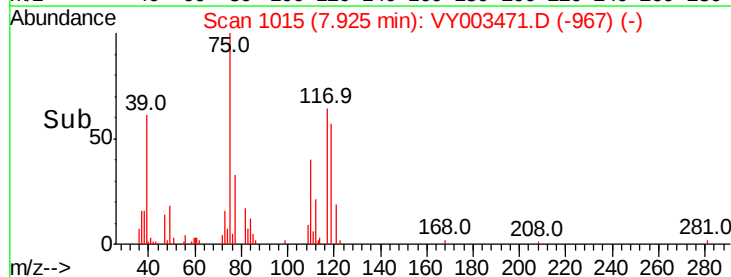
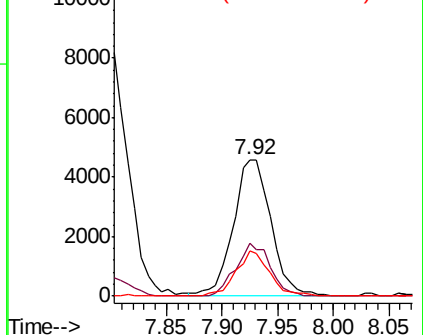
77 29.7 24.7 37.1

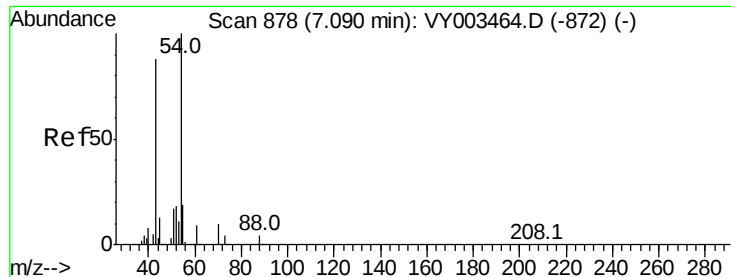


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

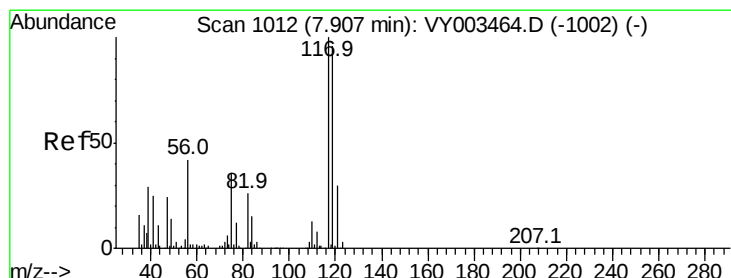
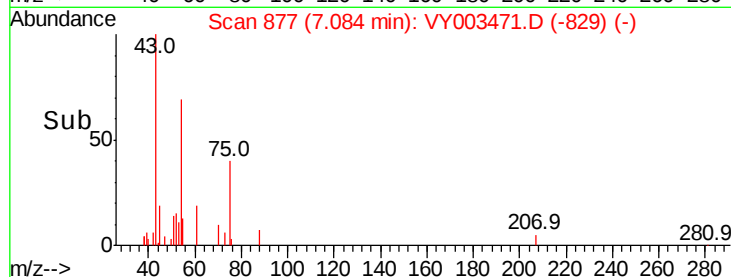
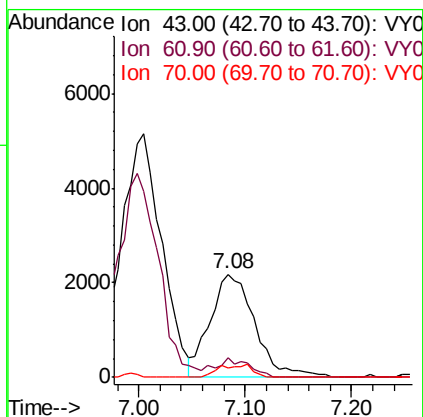
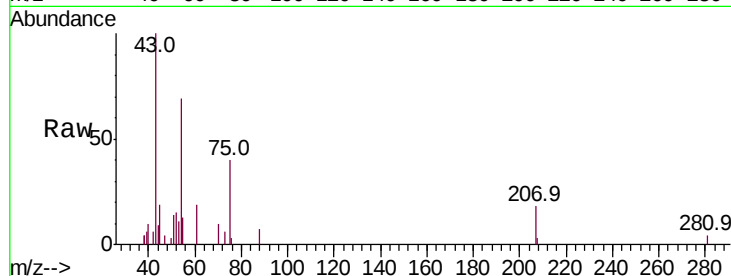




#37
Ethyl Acetate
Concen: 2.767 ug/l
RT: 7.08 min Scan# 877
Delta R.T. -0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

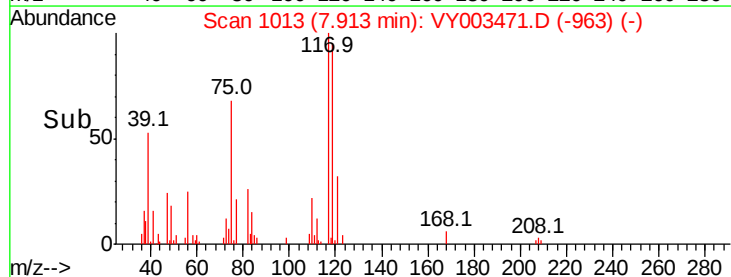
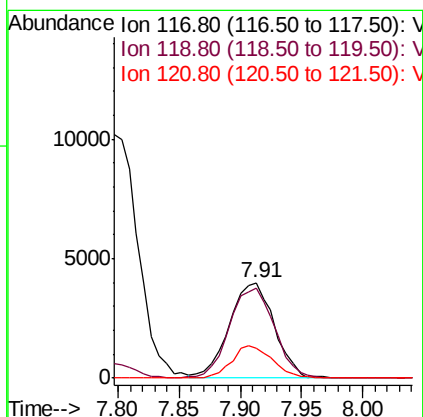
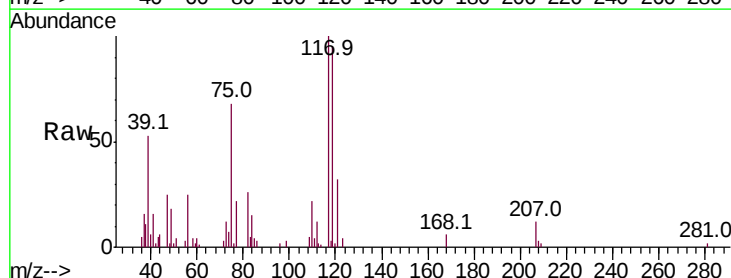
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

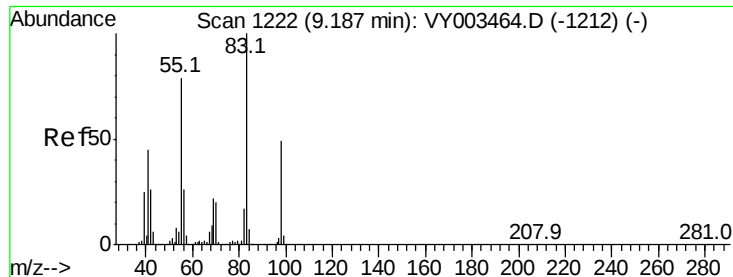
Tot Ion: 43 Resp: 6395
Ion Ratio Lower Upper
43 100
61 13.7 11.0 16.6
70 9.1 7.9 11.9



#38
Carbon Tetrachloride
Concen: 2.628 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 117 Resp: 10146
Ion Ratio Lower Upper
117 100
119 94.9 76.2 114.4
121 31.9 24.2 36.4

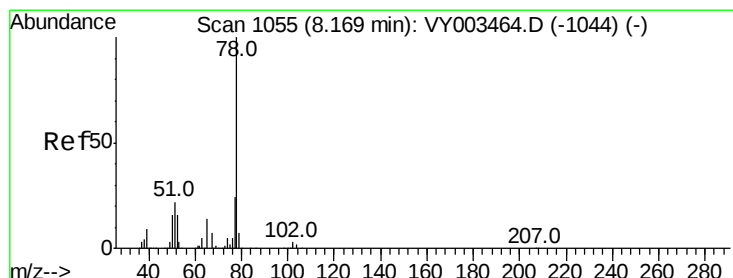
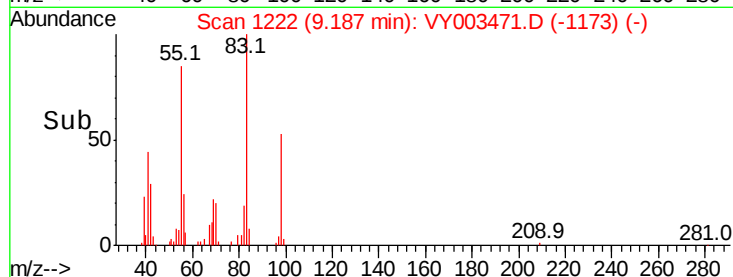
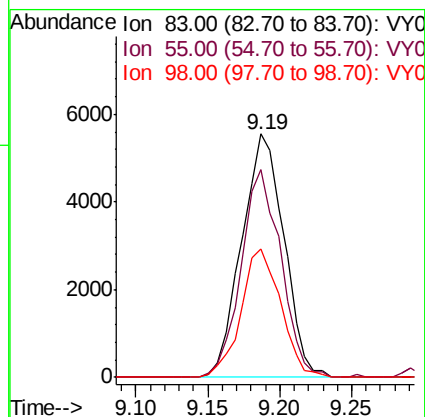
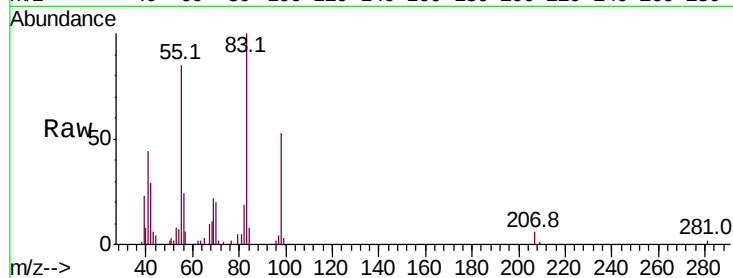




#39
Methvlcvclohexane
Concen: 2.728 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

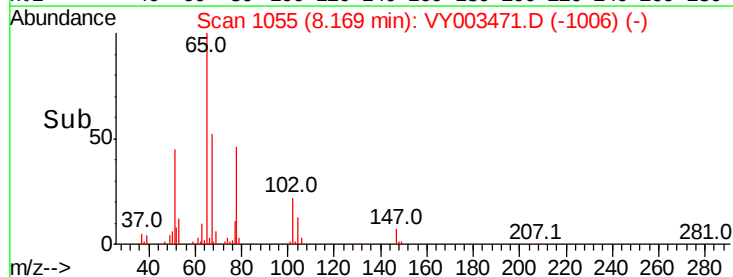
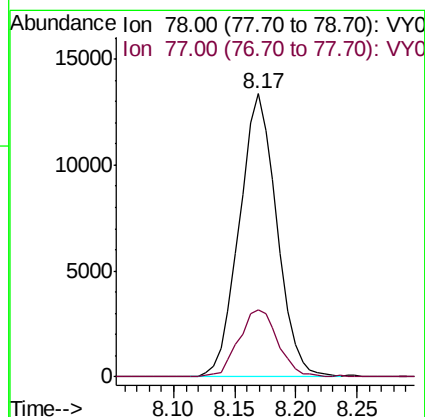
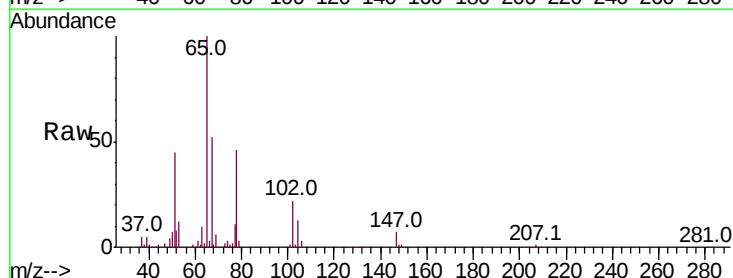
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

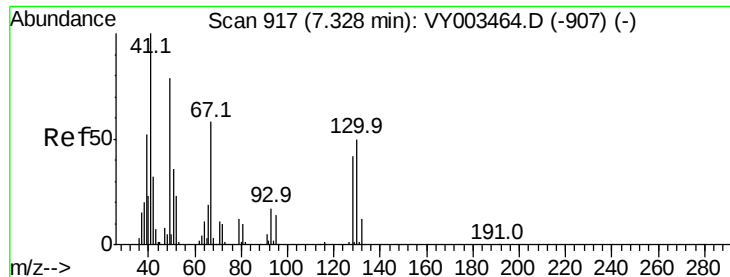
Tot Ion: 83 Resp: 11305
Ion Ratio Lower Upper
83 100
55 85.4 63.5 95.3
98 52.9 39.4 59.2



#40
Benzene
Concen: 2.744 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 78 Resp: 28423
Ion Ratio Lower Upper
78 100
77 23.5 19.4 29.0

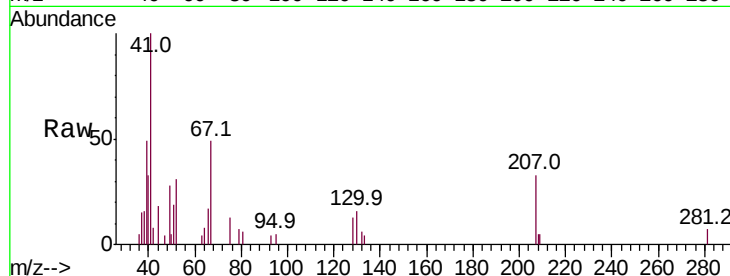




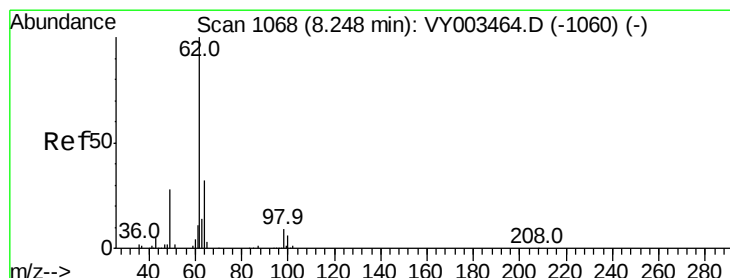
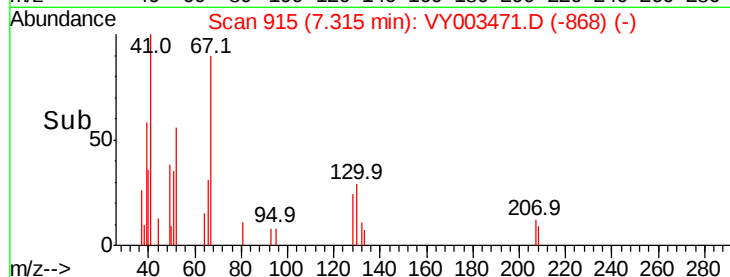
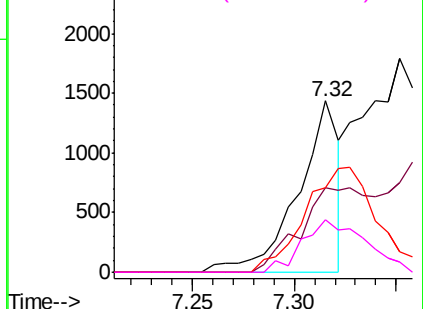
#41
Methacrylonitrile
Concen: 1.629 ug/l
RT: 7.32 min Scan# 915
Delta R.T. -0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:	41	Resp:	2010
Ion	Ratio	Lower	Upper
41	100		
39	87.0	0.0	0.0#
67	106.7	0.0	0.0#
52	47.0	0.0	0.0#

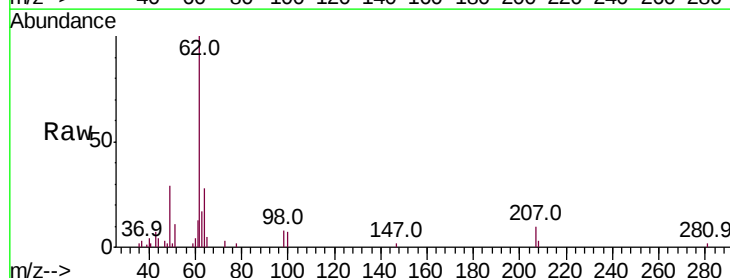


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

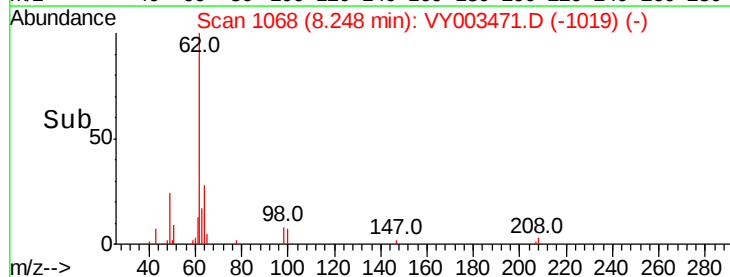
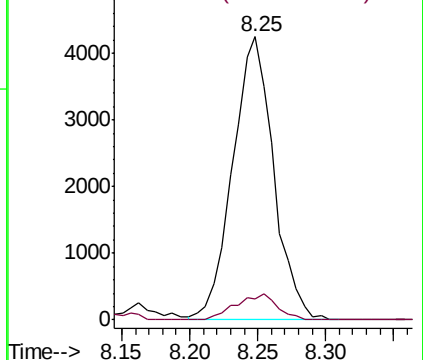


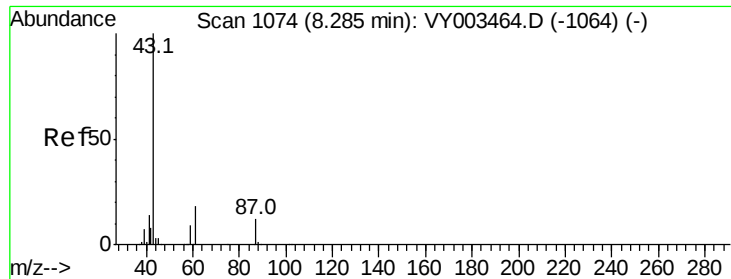
#42
1,2-Dichloroethane
Concen: 2.747 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion:	62	Resp:	8915
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.2



Abundance Ion 61.90 (61.60 to 62.60): VY0
Ion 97.90 (97.60 to 98.60): VY0

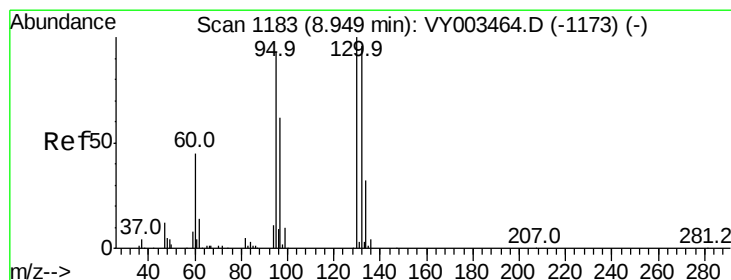
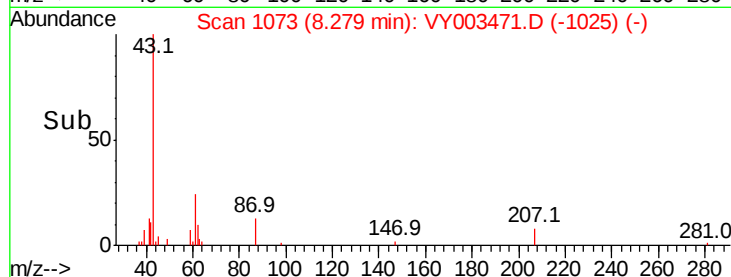
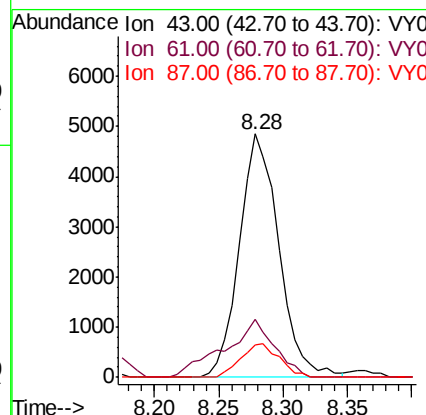
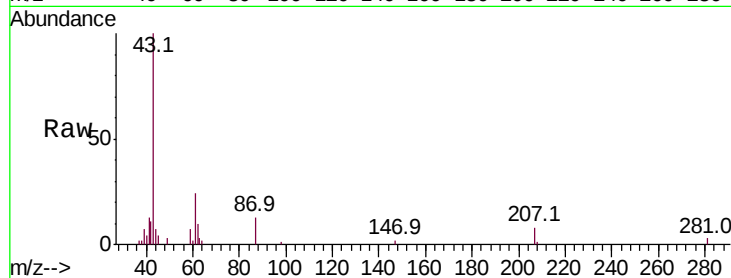




#43
Isopropyl Acetate
Concen: 2.482 ug/l
RT: 8.28 min Scan# 1073
Delta R.T. -0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

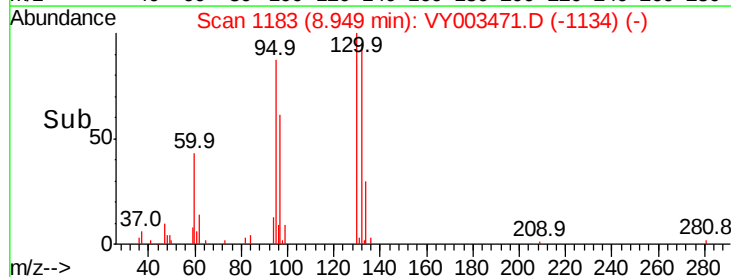
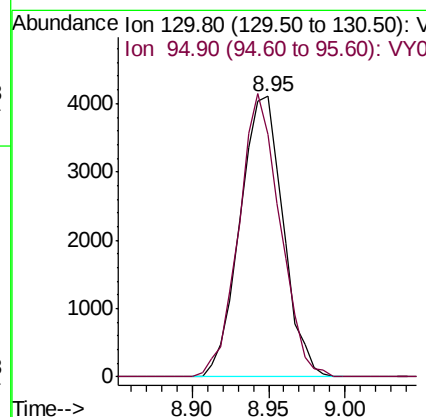
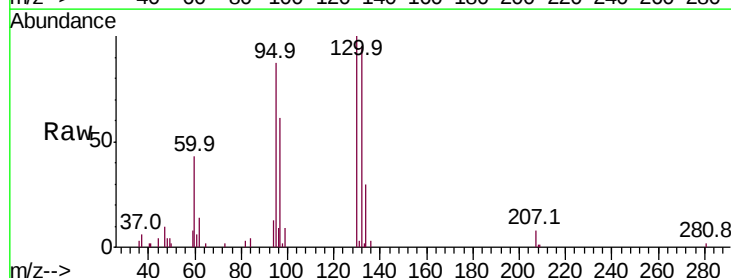
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

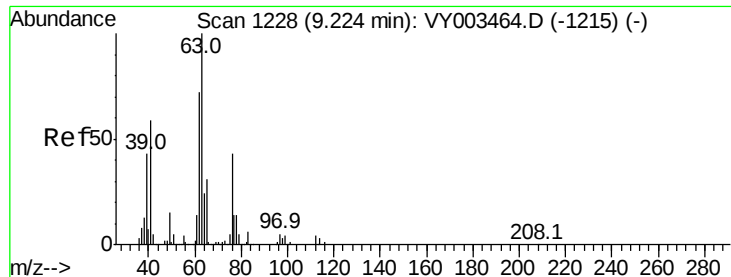
Tot Ion: 43 Resp: 10311
Ion Ratio Lower Upper
43 100
61 30.3 21.9 32.9
87 13.5 10.0 15.0



#44
Trichloroethene
Concen: 2.765 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion:130 Resp: 8041
Ion Ratio Lower Upper
130 100
95 86.7 0.0 186.6





#45

1,2-Dichloropropane

Concen: 2.686 ug/l

RT: 9.22 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

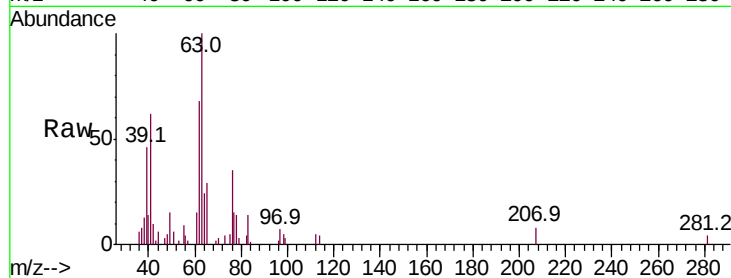
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 63 Resp: 7027

Ion Ratio Lower Upper

63 100

65 28.8 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0

4000

3000

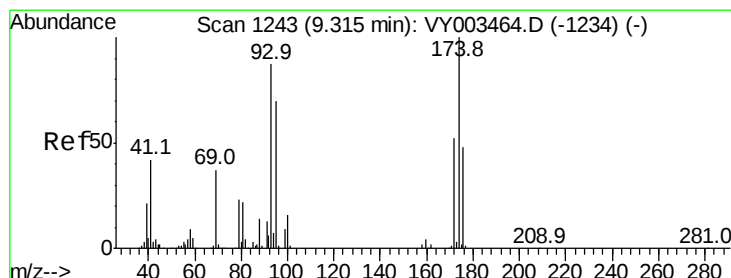
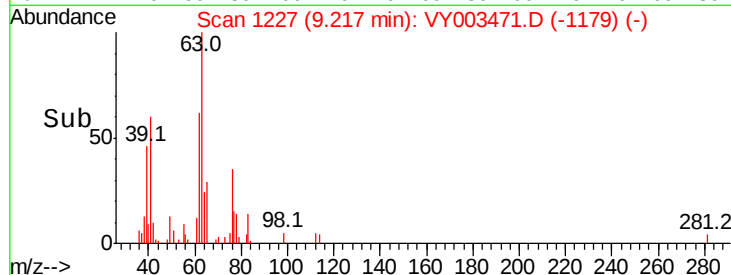
2000

1000

0

Time--> 9.10 9.15 9.20 9.25 9.30

9.22



#46

Dibromomethane

Concen: 2.768 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

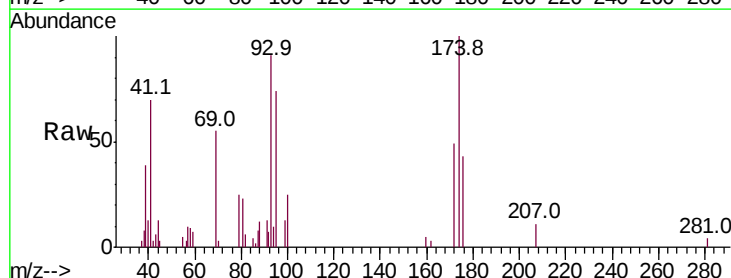
Tgt Ion: 93 Resp: 3983

Ion Ratio Lower Upper

93 100

95 77.9 65.0 97.6

174 110.4 91.8 137.6



Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V

3000

2500

2000

1500

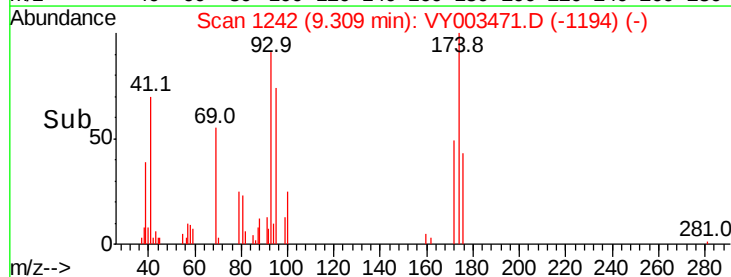
1000

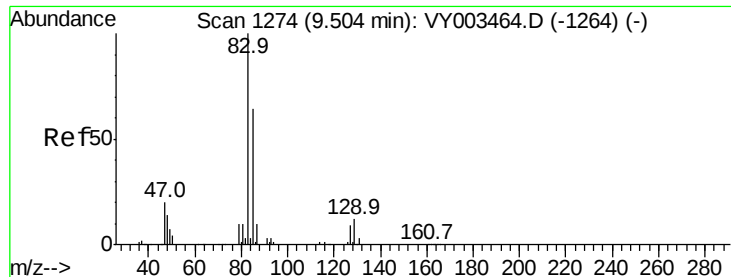
500

0

Time--> 9.25 9.30 9.35

9.31





#47

Bromodichloromethane

Concen: 2.736 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

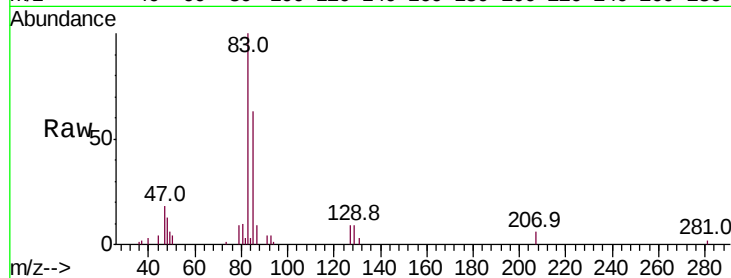
Tot Ion: 83 Resp: 9638

Ion Ratio Lower Upper

83 100

85 63.3 51.0 76.6

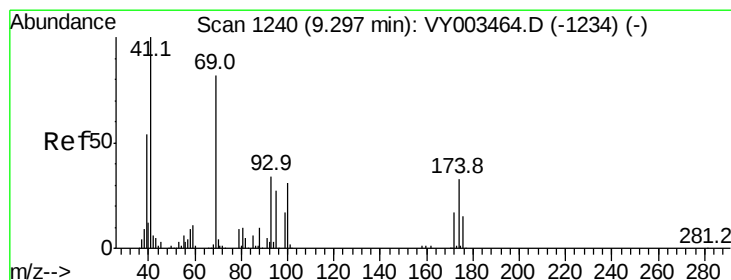
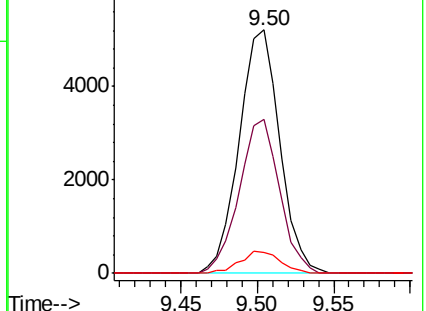
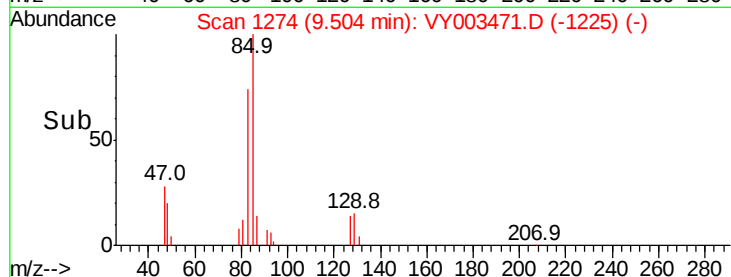
127 8.6 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): VY0



#48

Methyl methacrylate

Concen: 2.325 ug/l

RT: 9.30 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

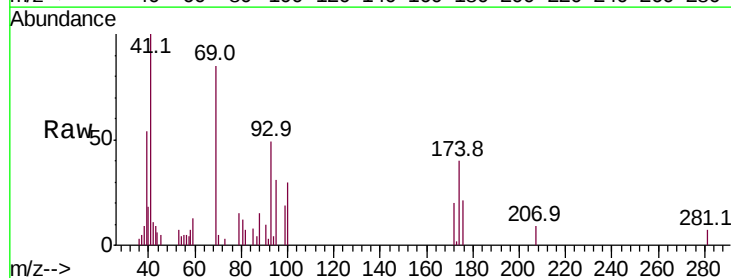
Tgt Ion: 41 Resp: 4549

Ion Ratio Lower Upper

41 100

69 84.2 65.9 98.9

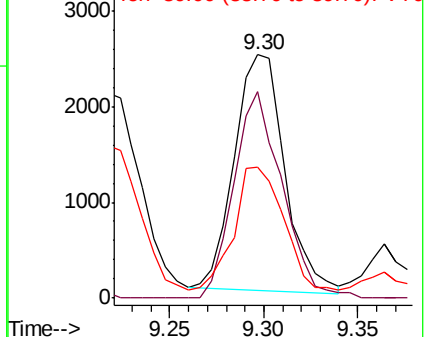
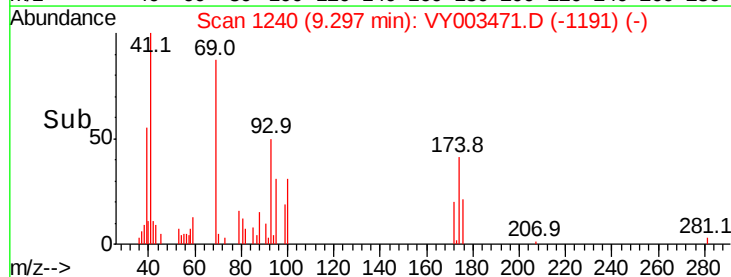
39 59.6 43.2 64.8

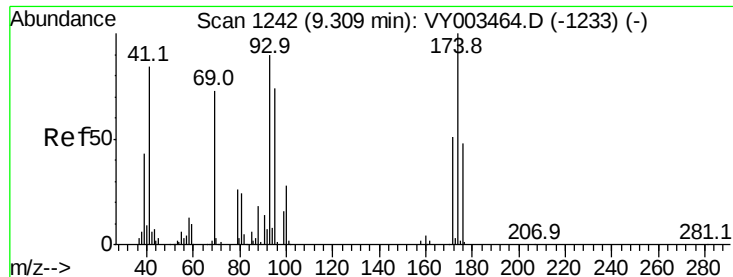


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





#49

1,4-Dioxane

Concen: 55.299 ug/l

RT: 9.30 min Scan# 1241

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

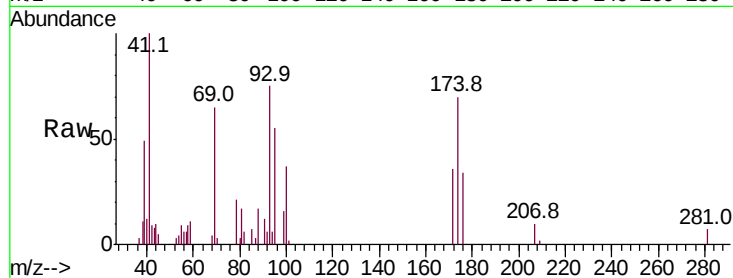
Tot Ion: 88 Resp: 993

Ion Ratio Lower Upper

88 100

43 45.8 27.6 41.4#

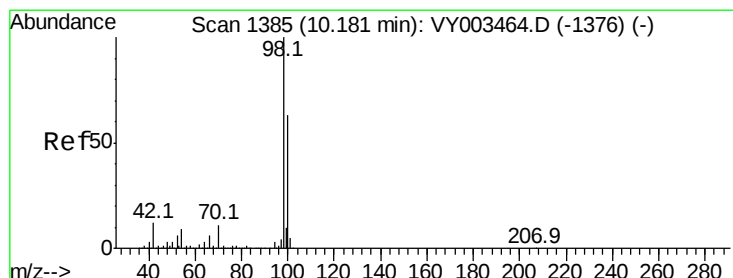
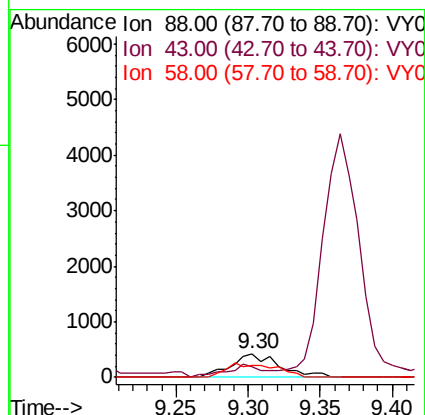
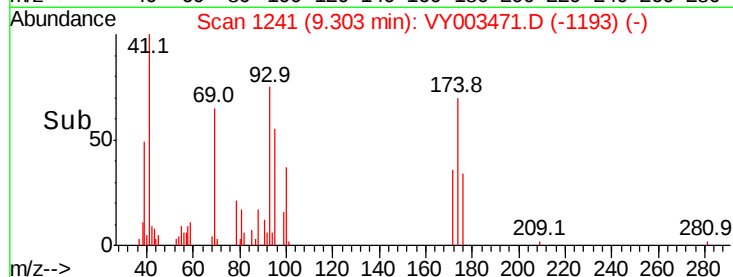
58 60.6 54.2 81.2



Abundance Ion 88.00 (87.70 to 88.70): VY003471.D (-1193) (-)

Ion 43.00 (42.70 to 43.70): VY003471.D (-1193) (-)

Ion 58.00 (57.70 to 58.70): VY003471.D (-1193) (-)



#50

Toluene-d8

Concen: 48.498 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003471.D

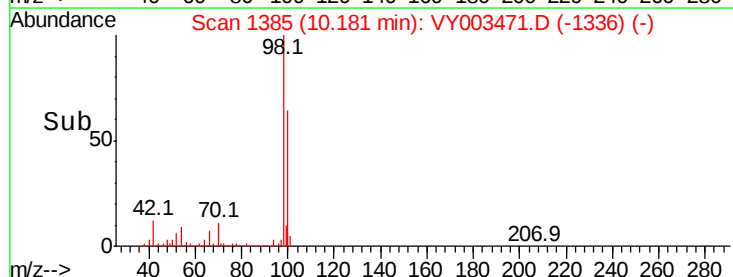
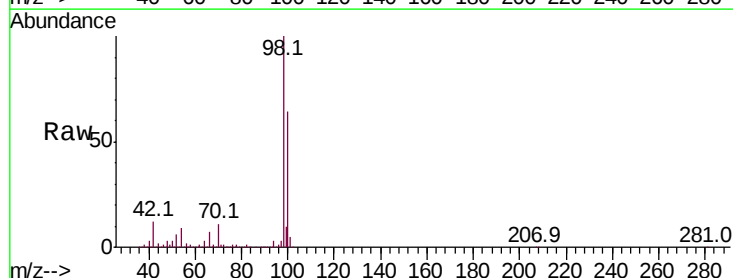
Acq: 02 Nov 2020 14:42

Tgt Ion: 98 Resp: 484687

Ion Ratio Lower Upper

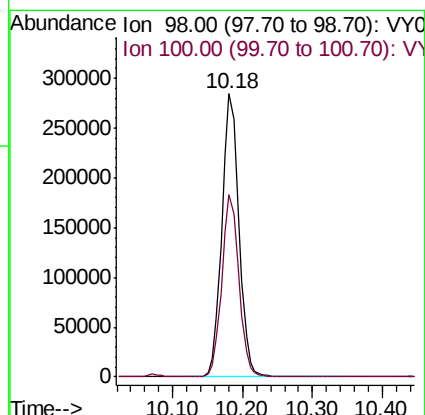
98 100

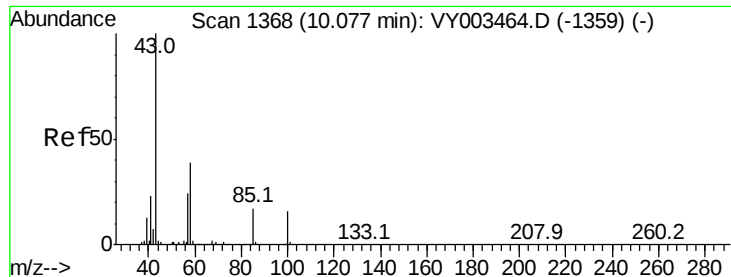
100 64.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VY003471.D (-1336) (-)

Ion 100.00 (99.70 to 100.70): VY003471.D (-1336) (-)





#51

4-Methyl-2-Pentanone

Concen: 11.822 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

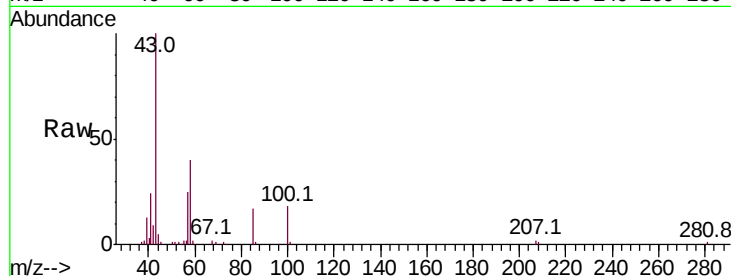
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 43 Resp: 26163

Ion Ratio Lower Upper

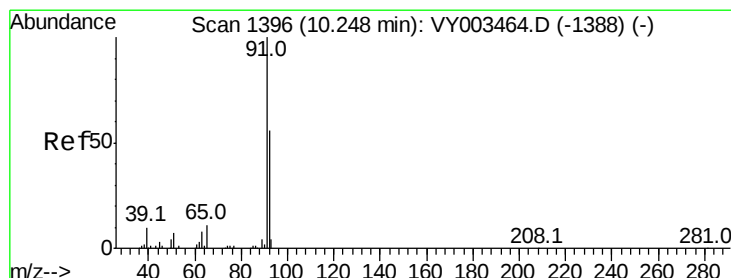
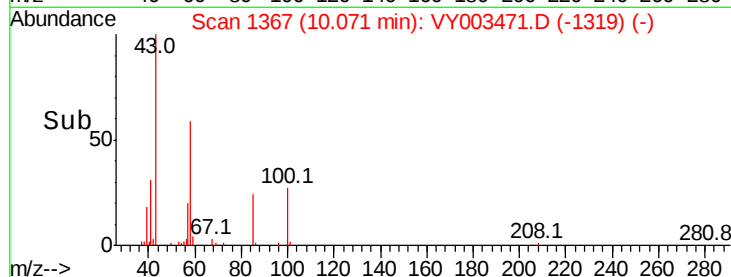
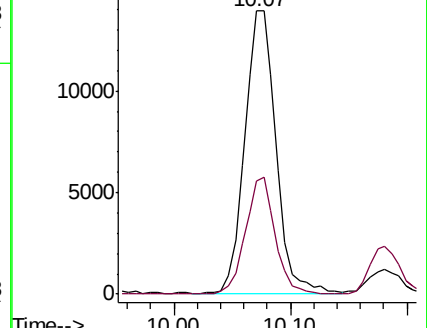
43 100

58 38.8 31.0 46.4



Abundance Ion 43.00 (42.70 to 43.70): VY003464.D (-1359) (-)

Ion 58.00 (57.70 to 58.70): VY003464.D (-1359) (-)



#52

Toluene

Concen: 2.644 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VY003471.D

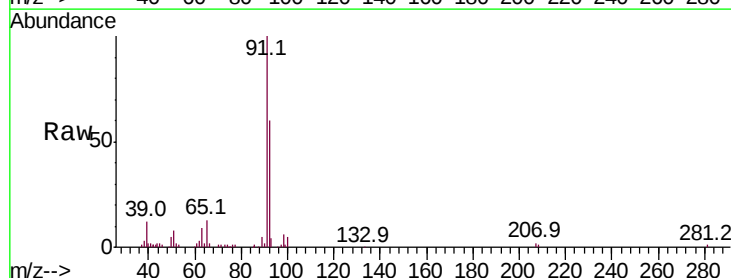
Acq: 02 Nov 2020 14:42

Tgt Ion: 92 Resp: 17127

Ion Ratio Lower Upper

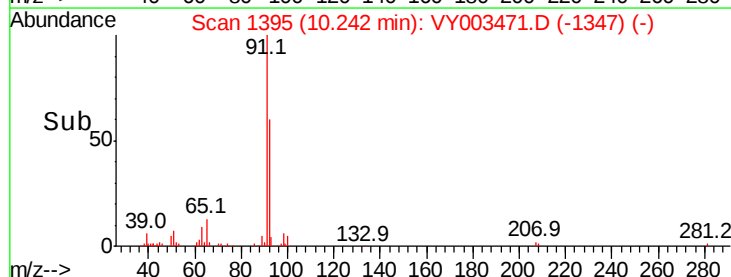
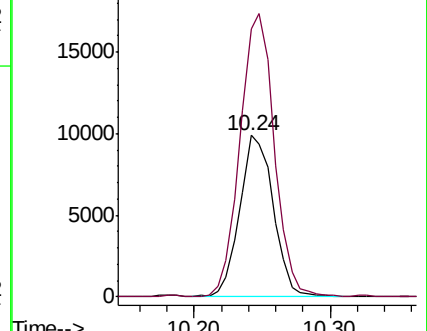
92 100

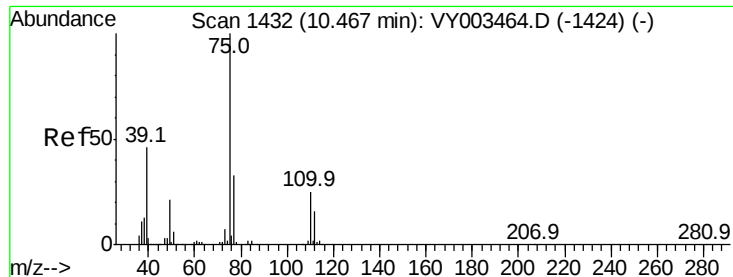
91 178.6 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VY003464.D (-1388) (-)

Ion 91.00 (90.70 to 91.70): VY003464.D (-1388) (-)





#53

t-1,3-Dichloropropene

Concen: 2.618 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

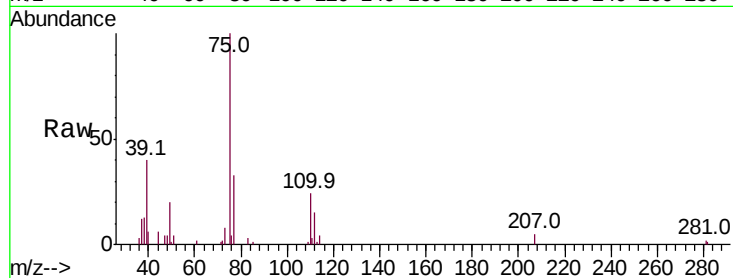
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 75 Resp: 9814

Ion Ratio Lower Upper

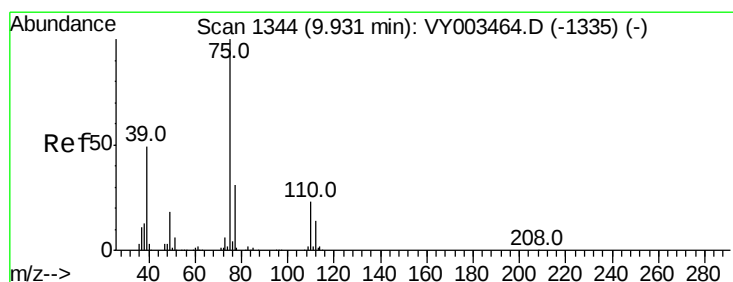
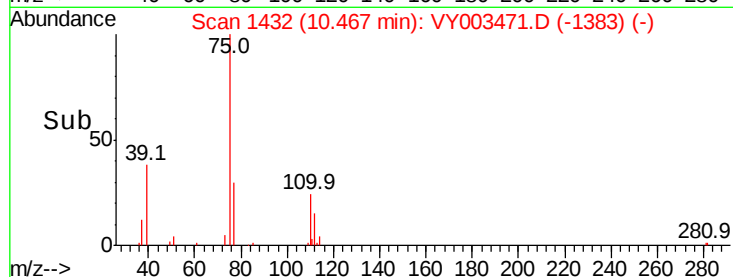
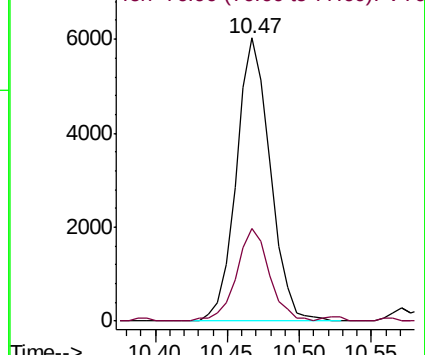
75 100

77 32.6 26.2 39.4



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0



#54

cis-1,3-Dichloropropene

Concen: 2.527 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

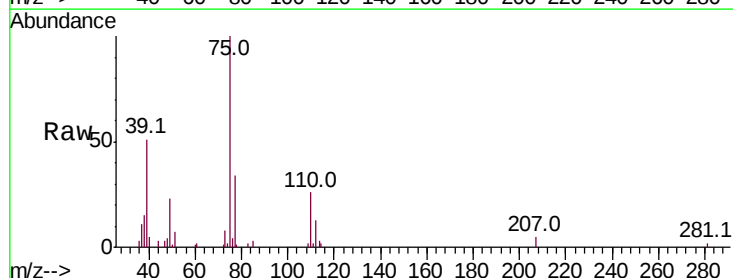
Tgt Ion: 75 Resp: 10658

Ion Ratio Lower Upper

75 100

77 33.7 24.5 36.7

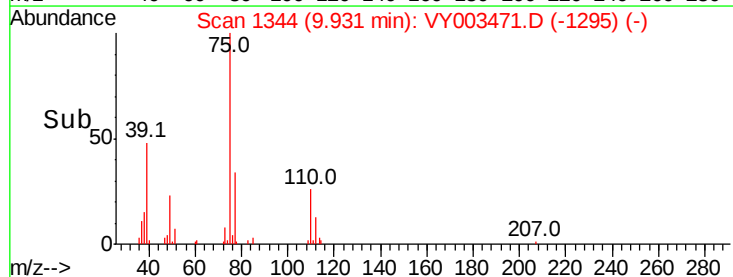
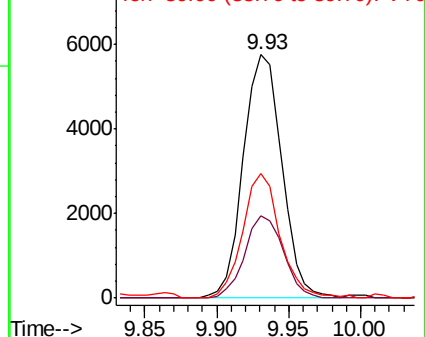
39 51.2 39.0 58.4

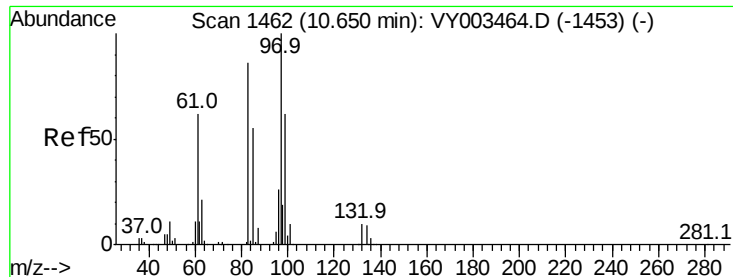


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 76.90 (76.60 to 77.60): VY0

Ion 39.00 (38.70 to 39.70): VY0





#55

1,1,2-Trichloroethane

Concen: 2.620 ug/l

RT: 10.65 min Scan# 1462

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 97 Resp: 5353

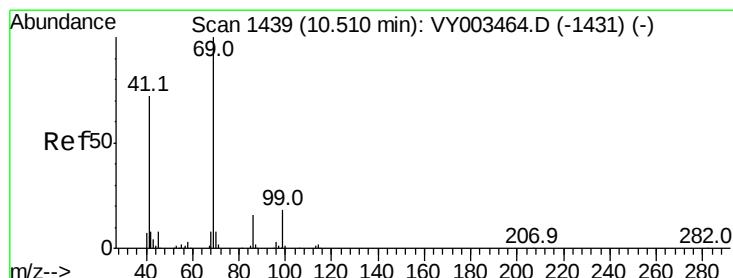
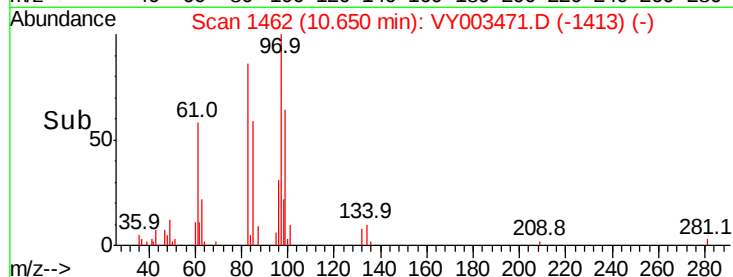
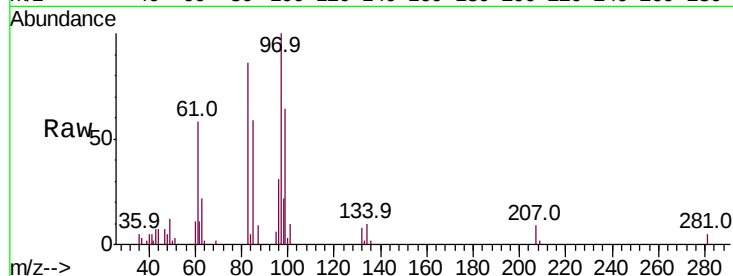
Ion Ratio Lower Upper

97 100

83 85.9 68.6 102.8

85 59.1 43.8 65.6

99 63.7 49.9 74.9



#56

Ethyl methacrylate

Concen: 2.343 ug/l

RT: 10.51 min Scan# 1439

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

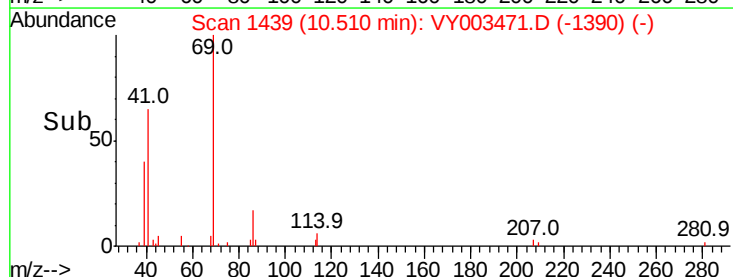
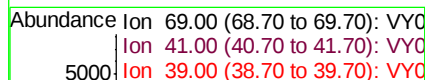
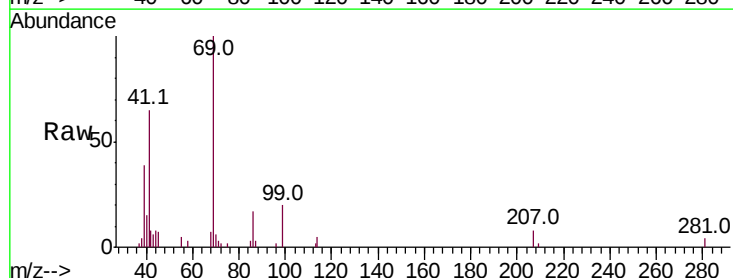
Tgt Ion: 69 Resp: 6410

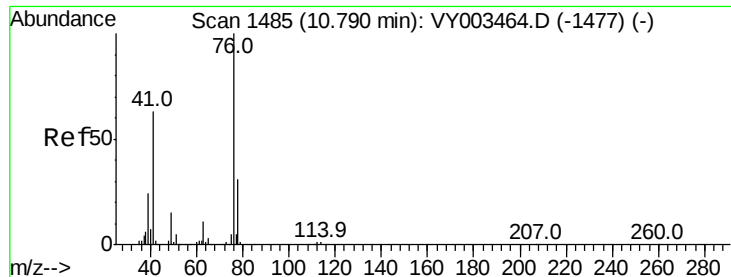
Ion Ratio Lower Upper

69 100

41 68.7 55.4 83.2

39 34.6 28.7 43.1





#57

1,3-Dichloropropane

Concen: 2.557 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

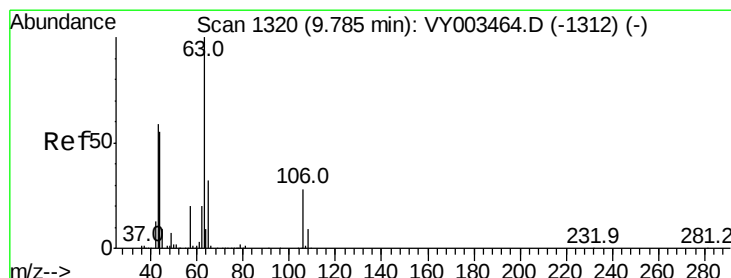
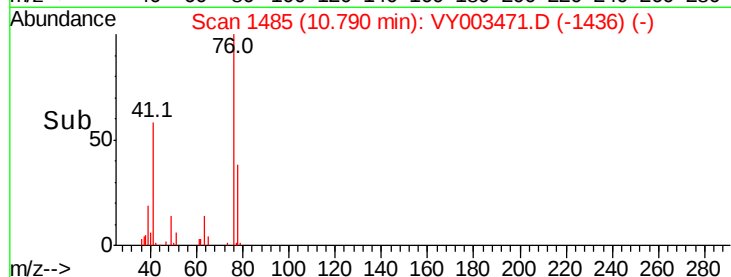
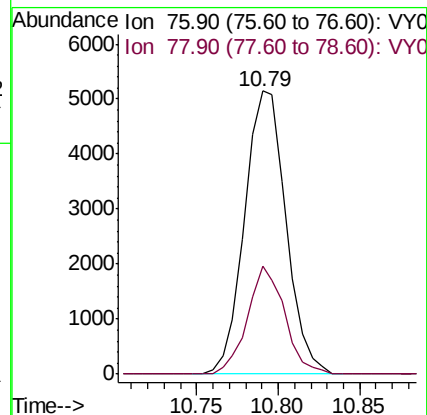
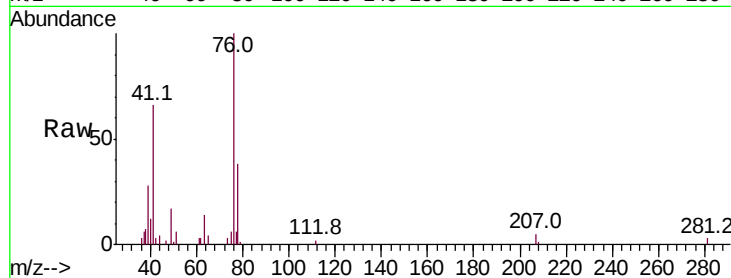
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 76 Resp: 9085

Ion Ratio Lower Upper

76 100

78 34.4 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 10.623 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VY003471.D

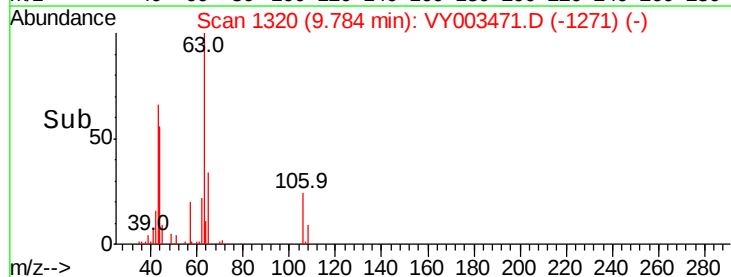
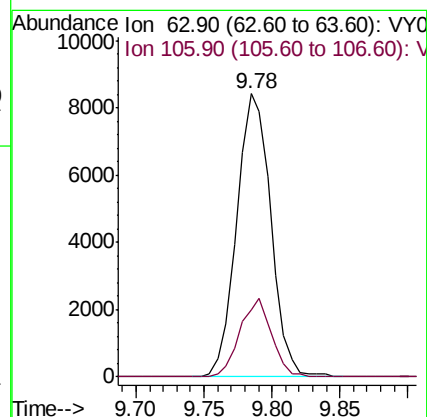
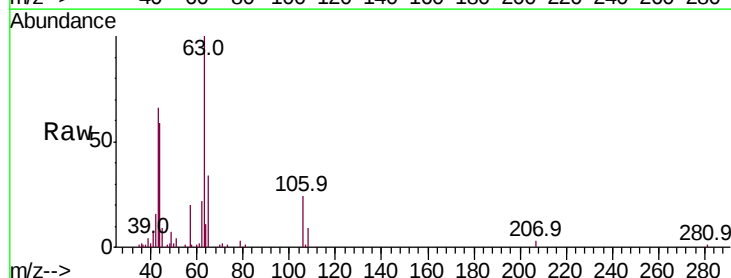
Acq: 02 Nov 2020 14:42

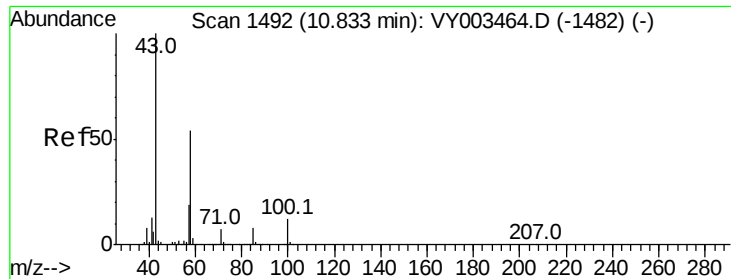
Tgt Ion: 63 Resp: 14736

Ion Ratio Lower Upper

63 100

106 25.6 22.3 33.5

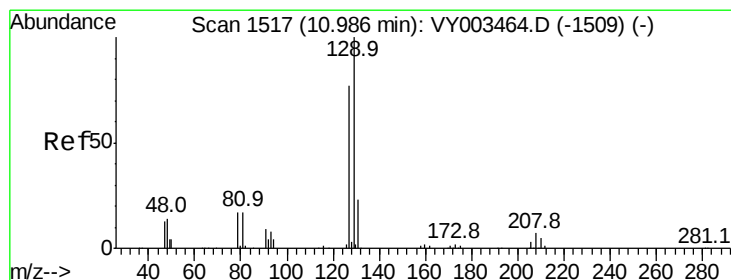
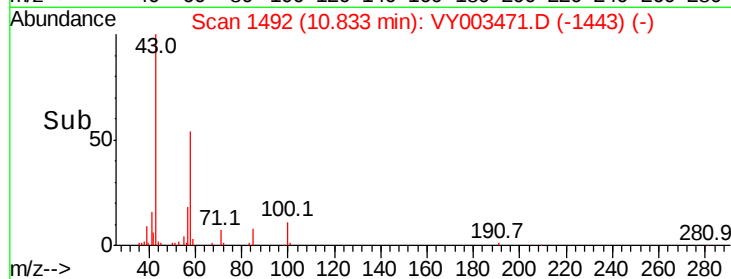
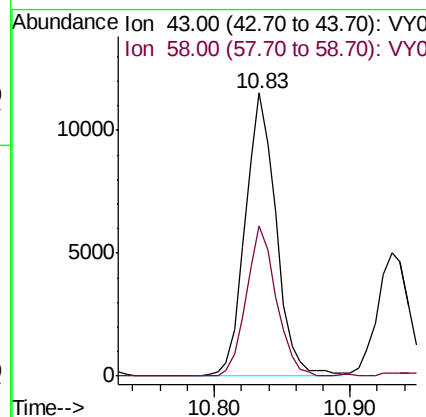
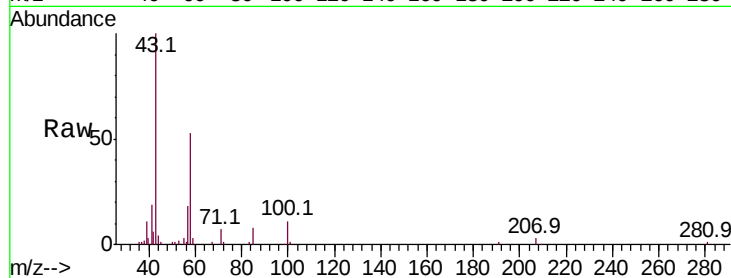




#59
2-Hexanone
Concen: 11.177 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

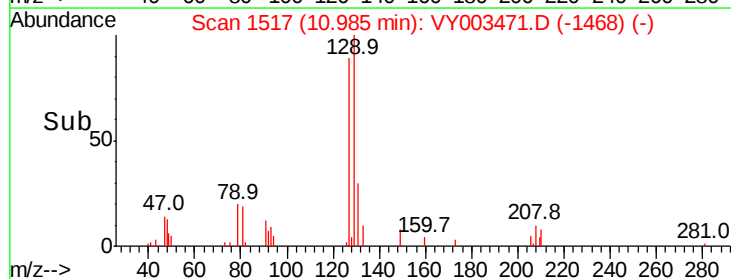
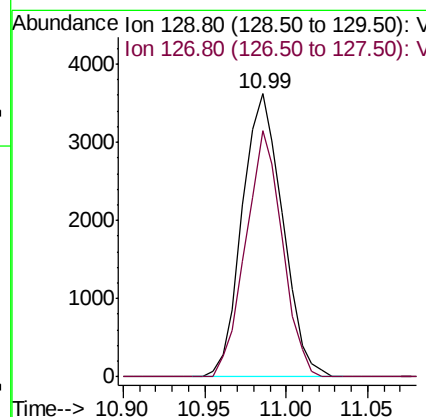
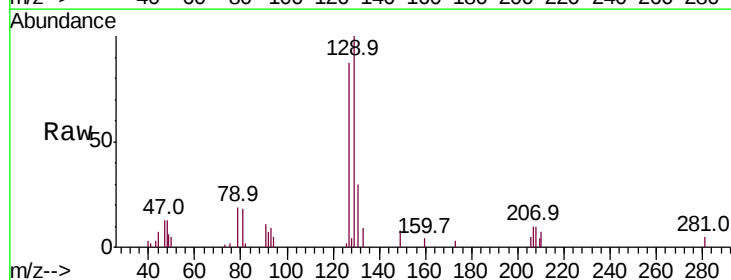
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

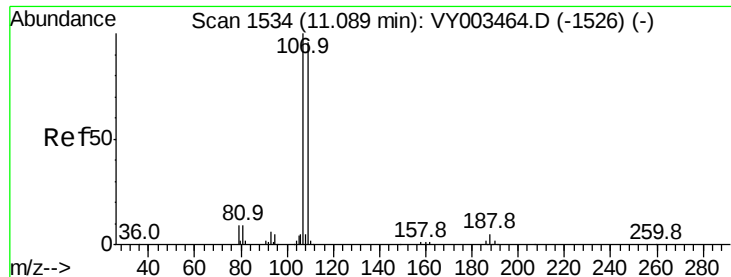
Tot Ion: 43 Resp: 18315
Ion Ratio Lower Upper
43 100
58 51.2 26.8 80.3



#60
Dibromochloromethane
Concen: 2.491 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion: 129 Resp: 6254
Ion Ratio Lower Upper
129 100
127 79.1 38.8 116.3





#61

1,2-Dibromoethane

Concen: 2.597 ug/l

RT: 11.09 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

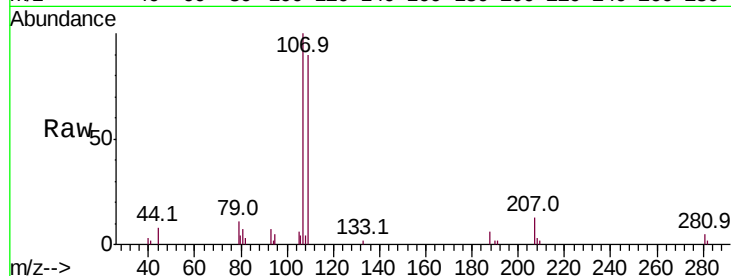
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:107 Resp: 5123

Ion Ratio Lower Upper

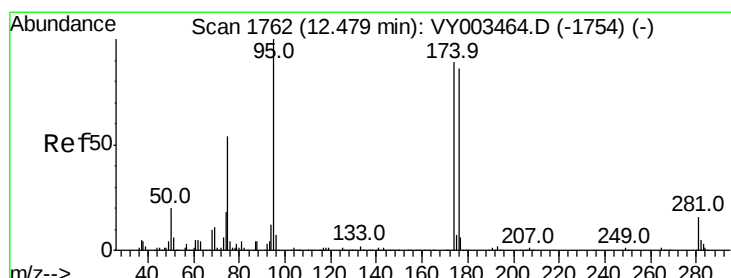
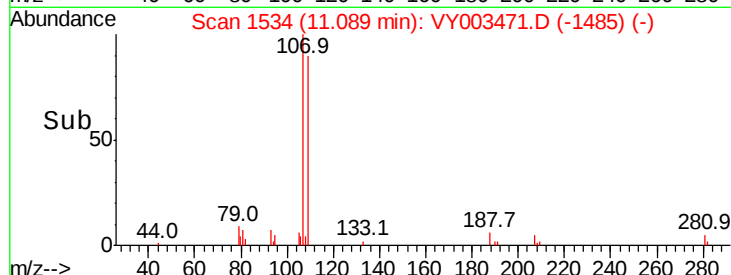
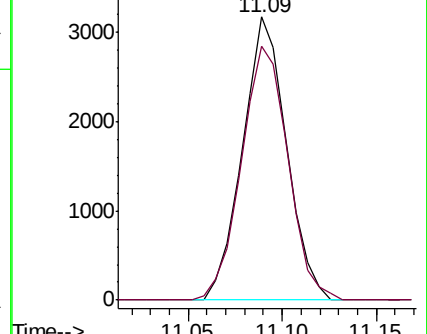
107 100

109 95.2 76.5 114.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.449 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

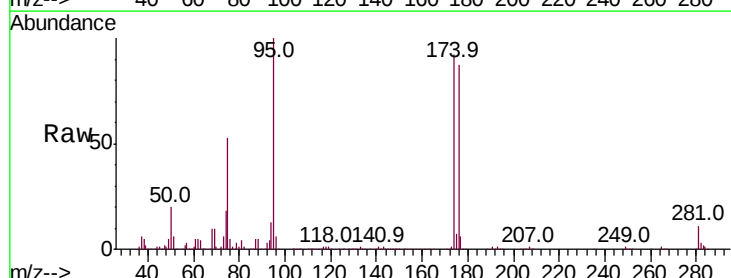
Tgt Ion: 95 Resp: 157119

Ion Ratio Lower Upper

95 100

174 93.7 0.0 193.0

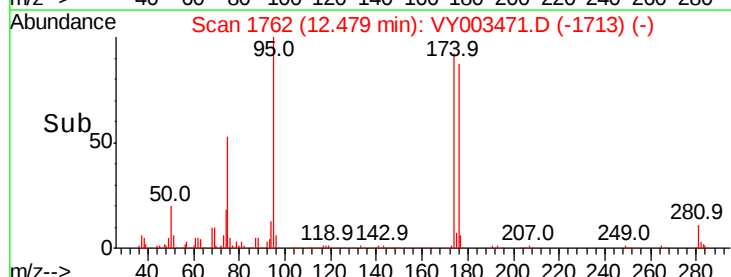
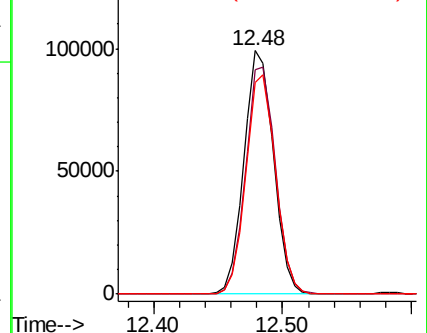
176 90.0 0.0 187.4

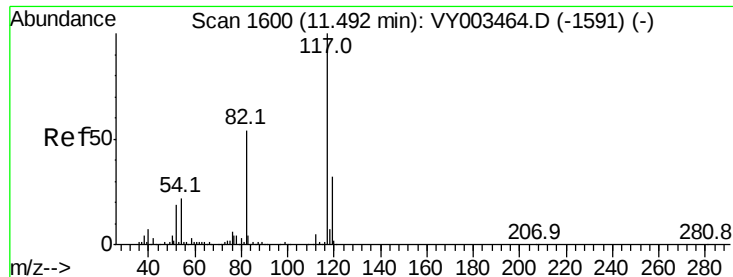


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

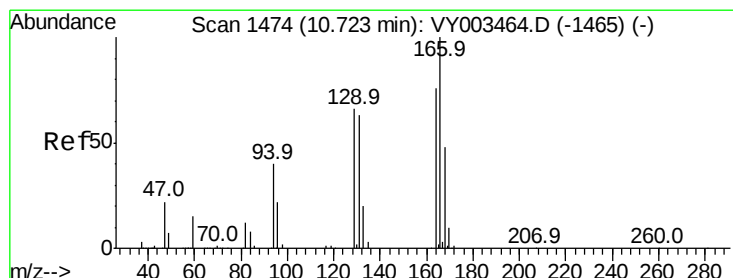
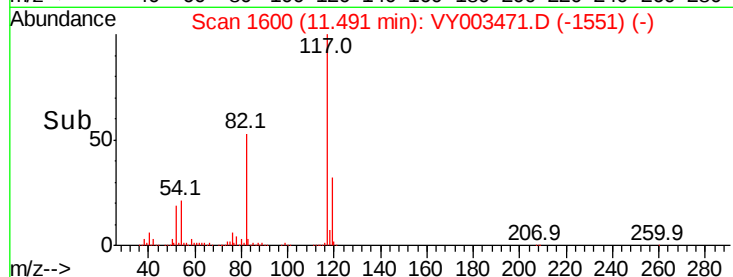
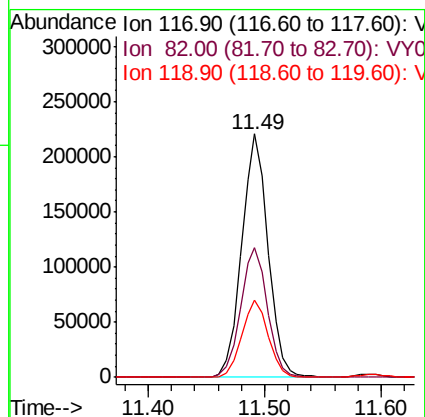
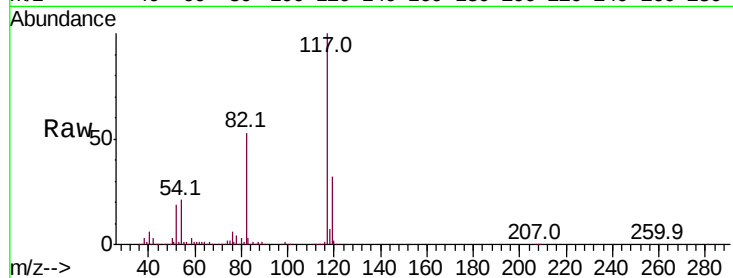




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

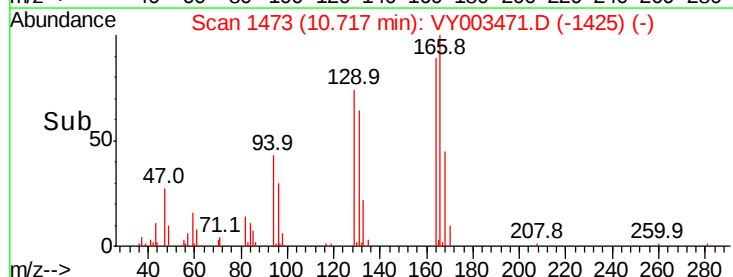
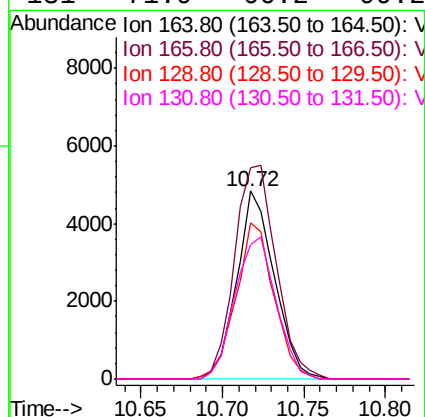
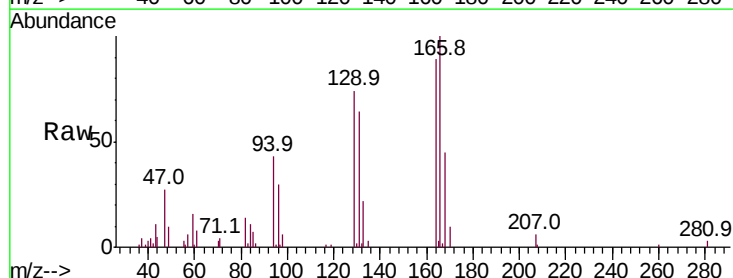
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

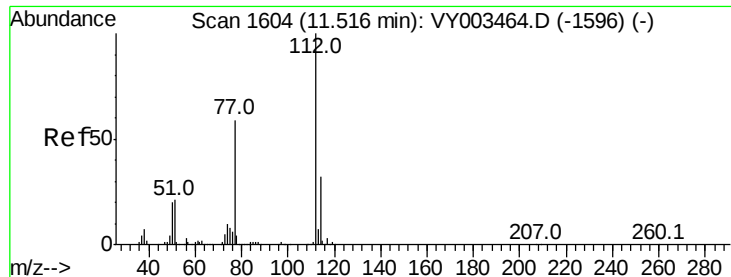
Tot Ion:117 Resp: 346963
Ion Ratio Lower Upper
117 100
82 53.4 43.4 65.2
119 31.8 25.8 38.6



#64
Tetrachloroethene
Concen: 2.993 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion:164 Resp: 7756
Ion Ratio Lower Upper
164 100
166 112.5 104.9 157.3
129 83.4 68.9 103.3
131 71.9 66.2 99.2





#65

Chlorobenzene

Concen: 2.914 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

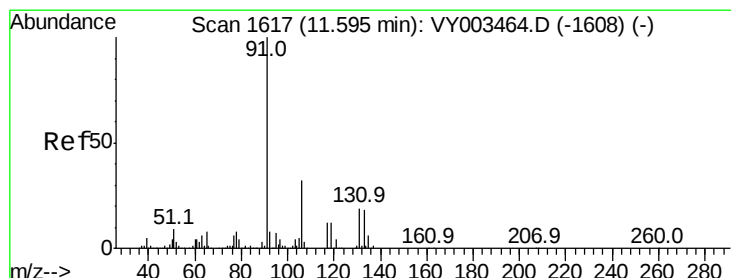
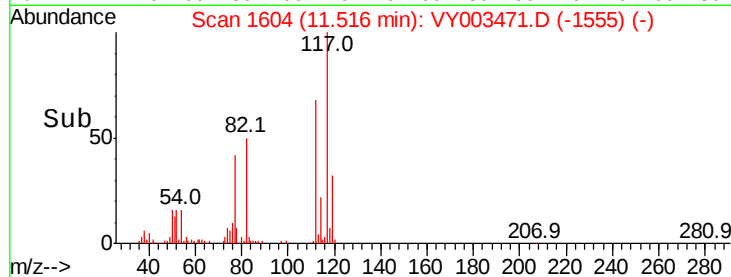
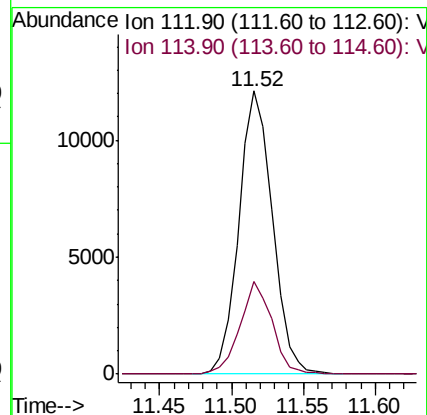
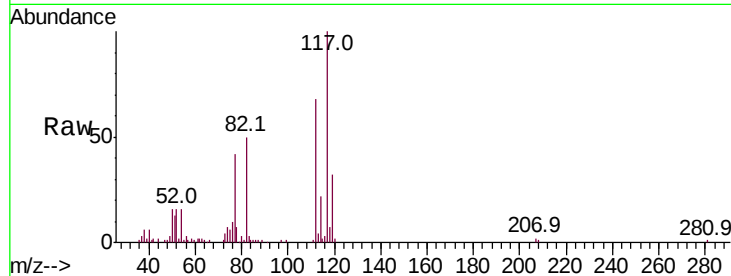
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:112 Resp: 19640

Ion Ratio Lower Upper

112 100

114 32.7 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 2.547 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

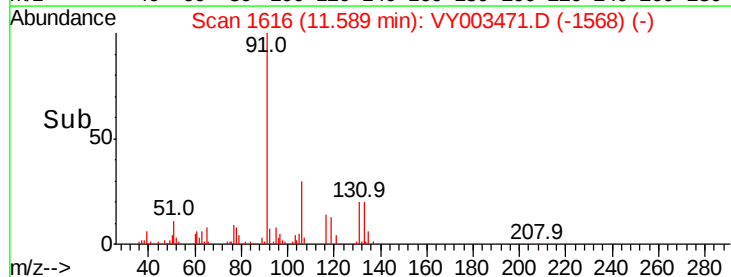
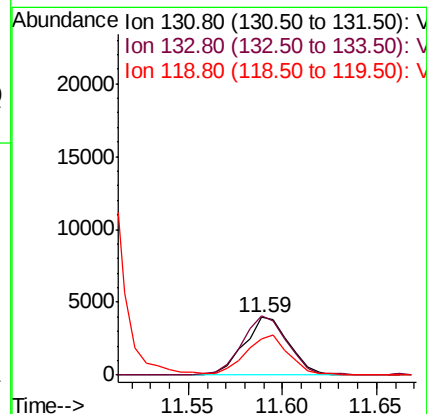
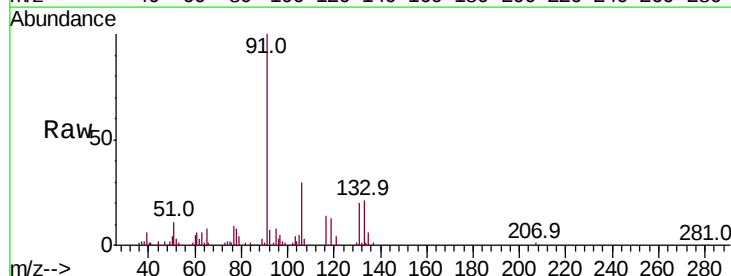
Tgt Ion:131 Resp: 6474

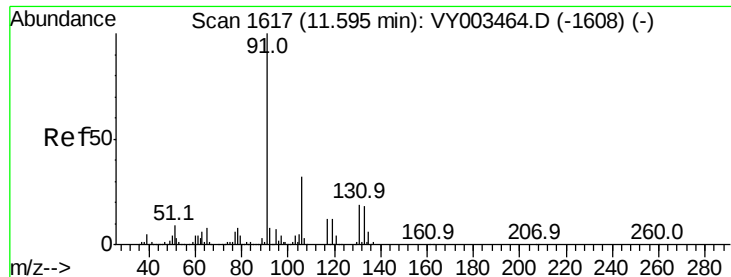
Ion Ratio Lower Upper

131 100

133 105.2 47.4 142.2

119 67.2 31.6 95.0





#67

Ethyl Benzene

Concen: 2.747 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

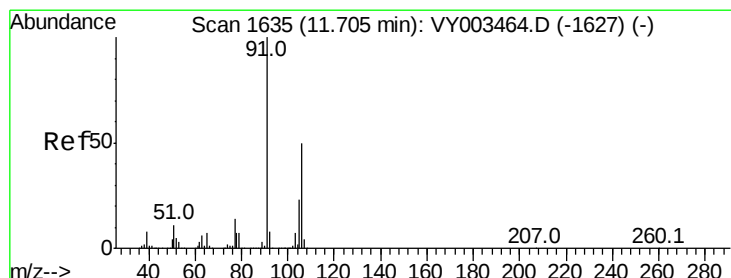
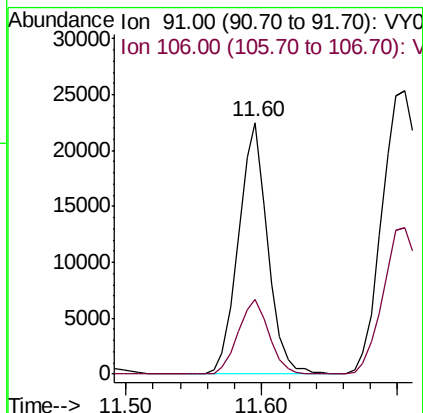
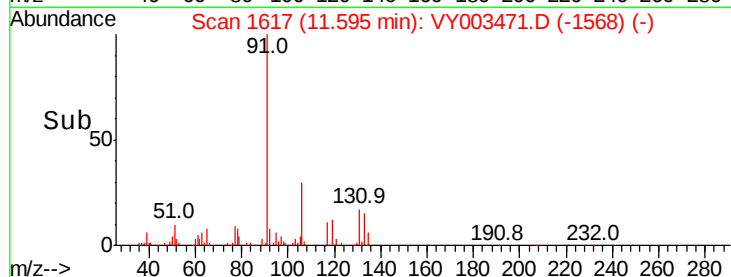
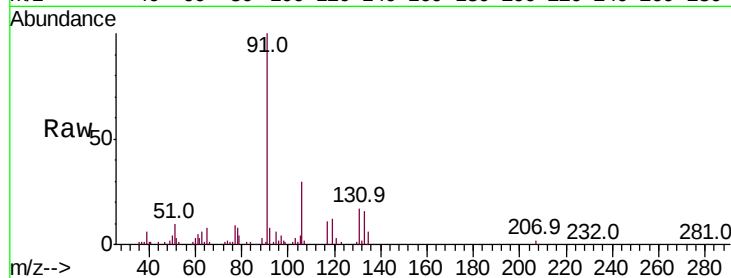
LOD-MDL-SOIL-01-QT4-2020

Tot Ion: 91 Resp: 33578

Ion Ratio Lower Upper

91 100

106 30.0 25.4 38.0



#68

m/p-Xylenes

Concen: 5.398 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VY003471.D

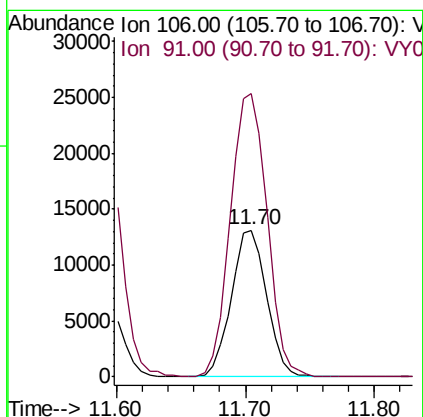
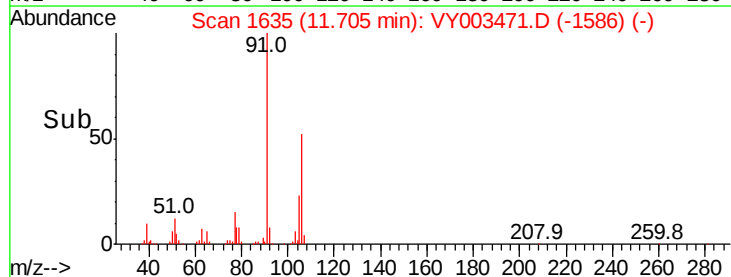
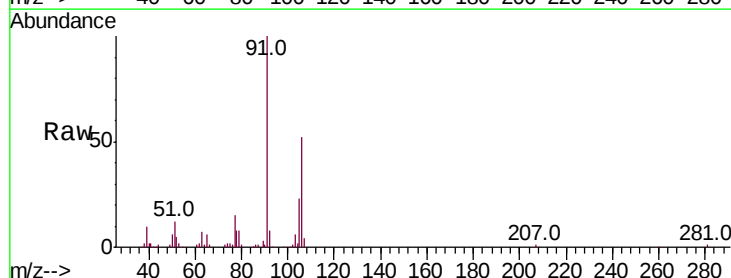
Acq: 02 Nov 2020 14:42

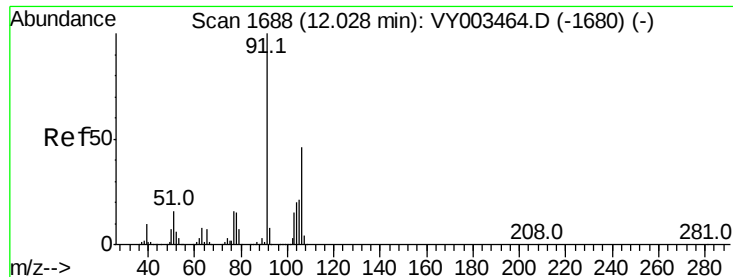
Tgt Ion: 106 Resp: 25001

Ion Ratio Lower Upper

106 100

91 200.5 161.0 241.6

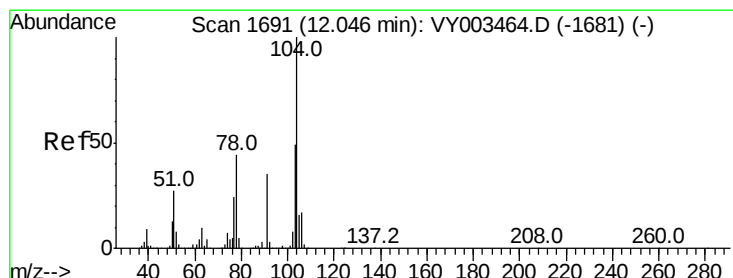
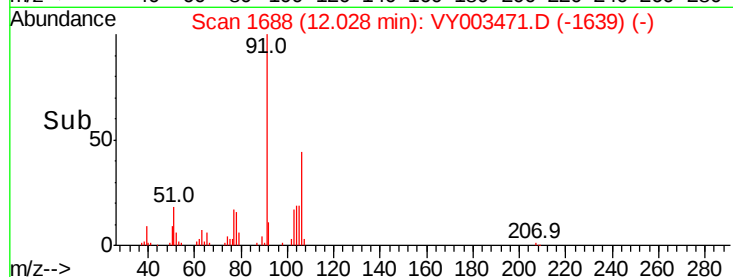
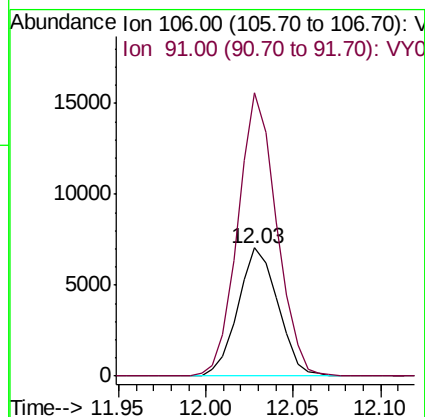
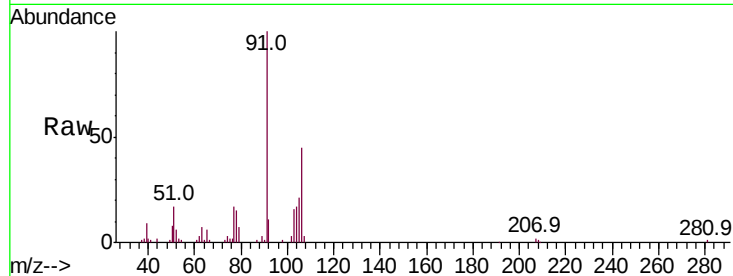




#69
o-Xylene
Concen: 2.634 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

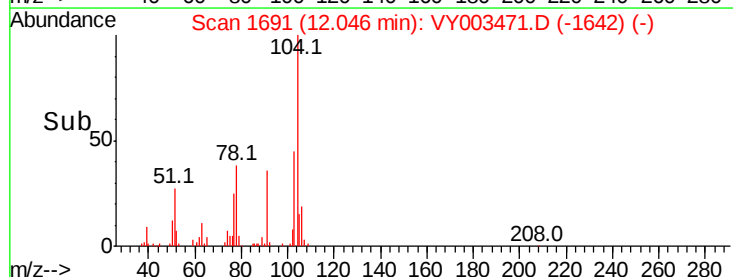
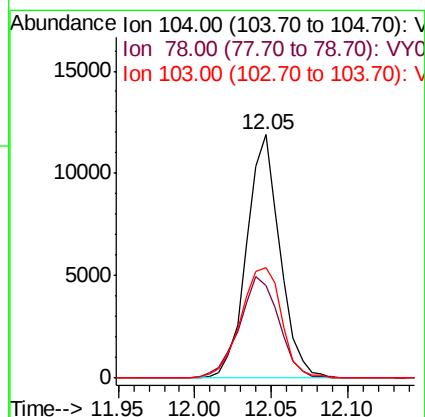
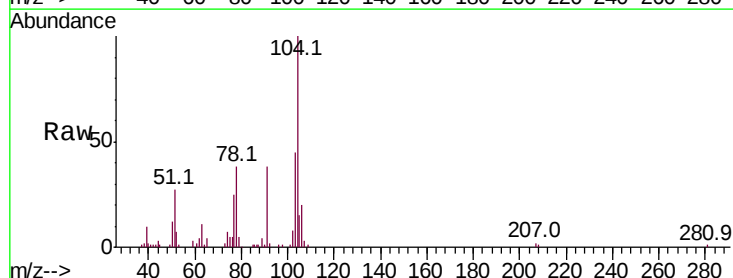
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

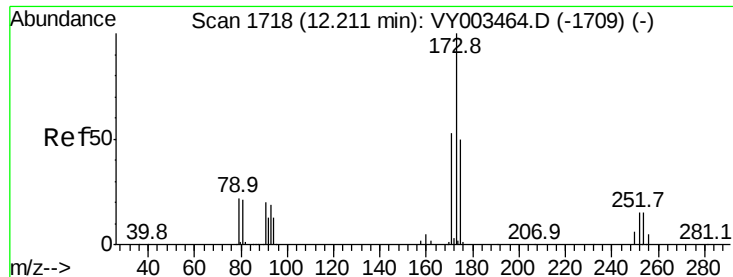
Tot Ion:106 Resp: 11224
Ion Ratio Lower Upper
106 100
91 213.9 105.5 316.5



#70
Styrene
Concen: 2.491 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion:104 Resp: 18020
Ion Ratio Lower Upper
104 100
78 49.8 39.5 59.3
103 55.8 44.2 66.2





#71

Bromoform

Concen: 2.541 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. -0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

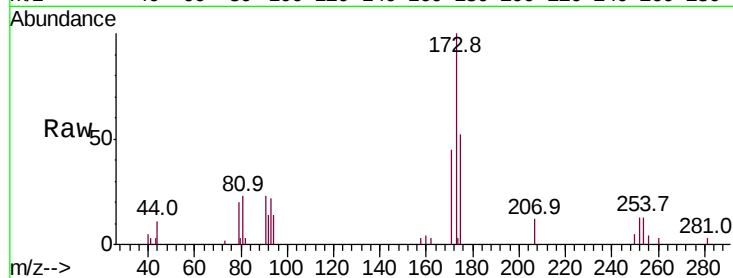
Tot Ion:173 Resp: 4306

Ion Ratio Lower Upper

173 100

175 49.3 24.7 74.1

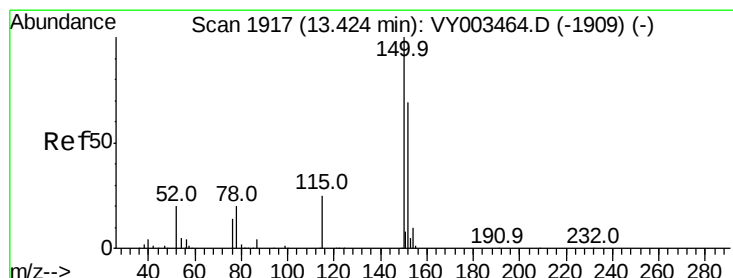
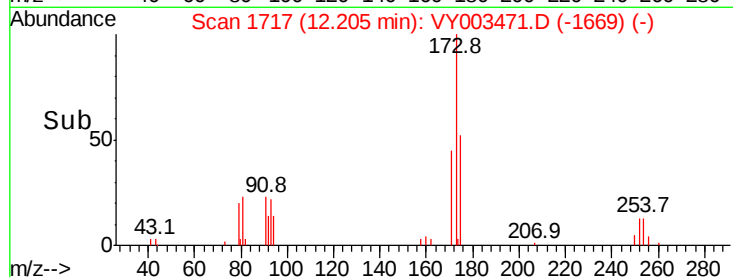
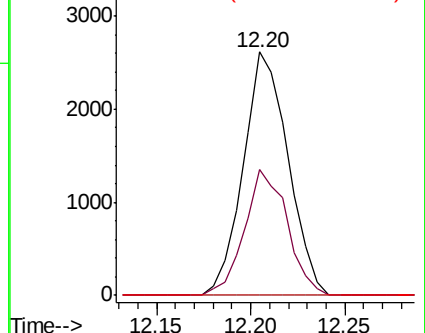
254 0.0 0.2 0.2#



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: VY003471.D

Acq: 02 Nov 2020 14:42

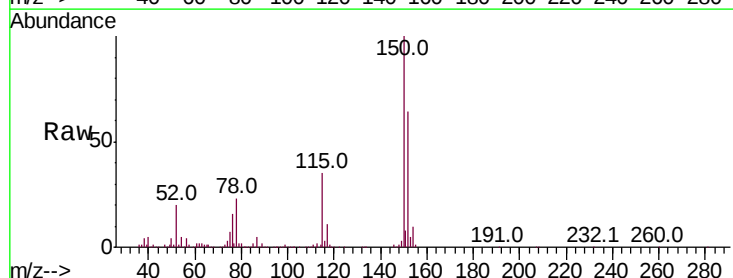
Tgt Ion:152 Resp: 173307

Ion Ratio Lower Upper

152 100

115 54.3 27.5 82.4

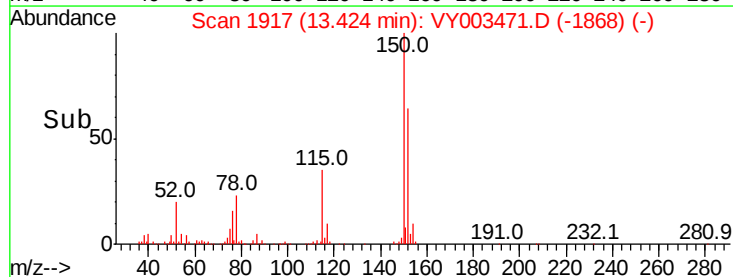
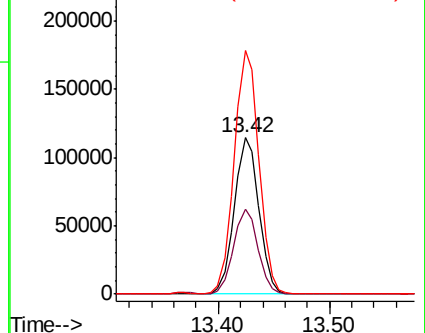
150 157.7 0.0 345.8

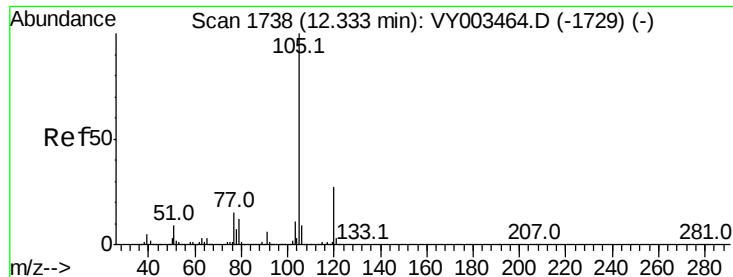


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.696 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

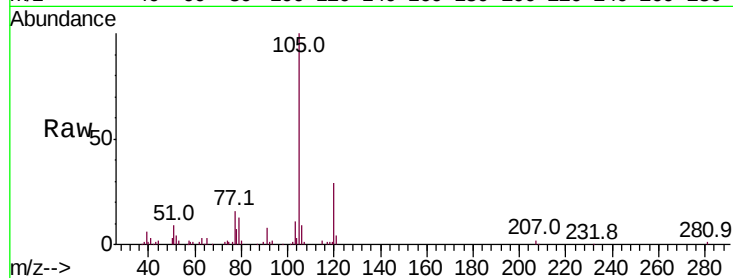
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:105 Resp: 30525

Ion Ratio Lower Upper

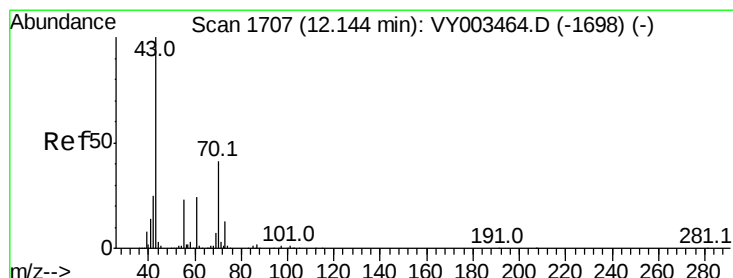
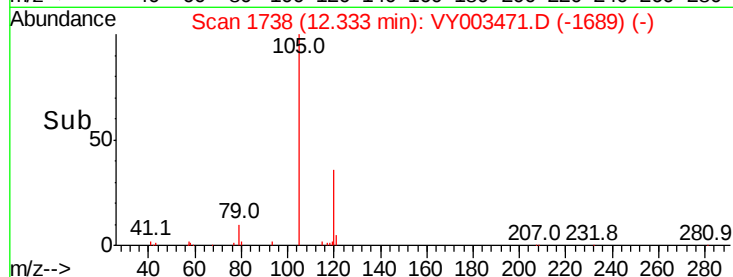
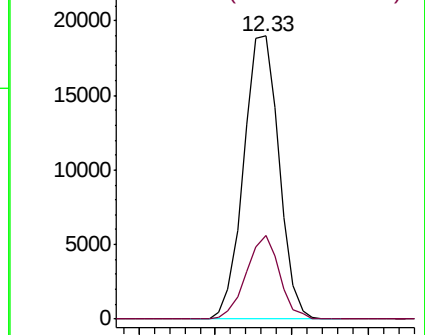
105 100

120 27.8 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.509 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Tgt Ion: 43 Resp: 8047

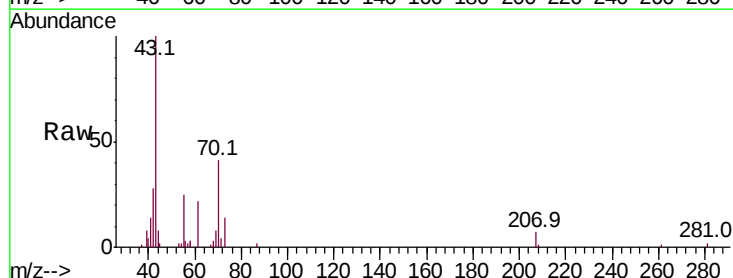
Ion Ratio Lower Upper

43 100

70 42.7 33.1 49.7

55 23.9 19.2 28.8

61 25.6 19.0 28.6

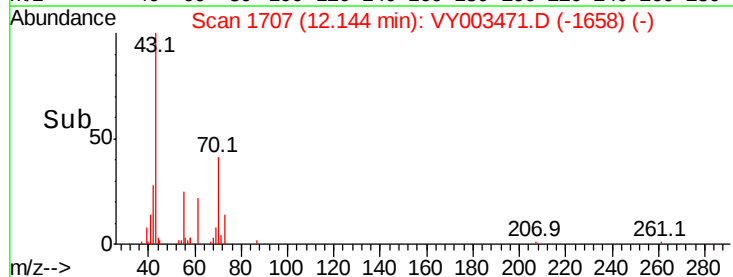
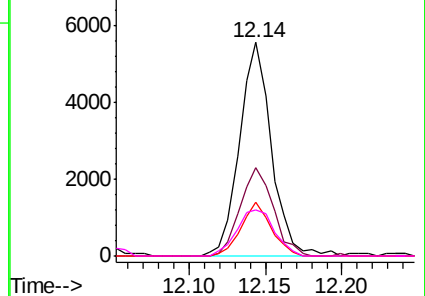


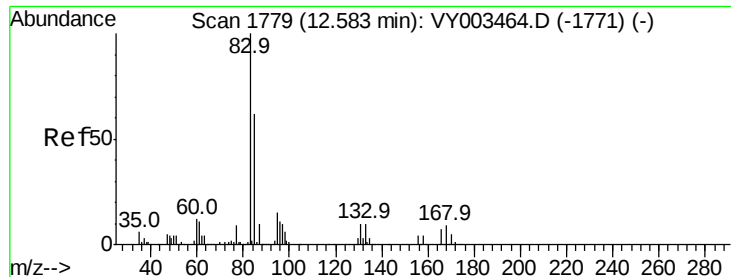
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.712 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

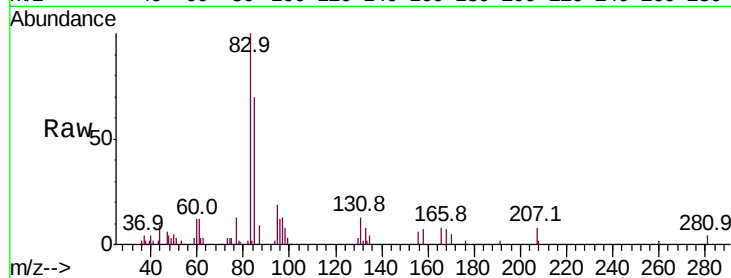
Tot Ion: 83 Resp: 6559

Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.4	16.2
85	66.2	32.0	96.2

83 100

131 11.5 5.4 16.2

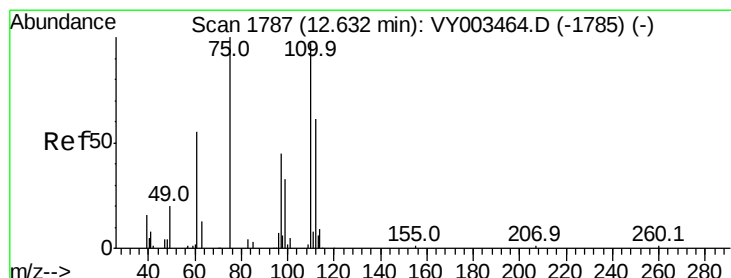
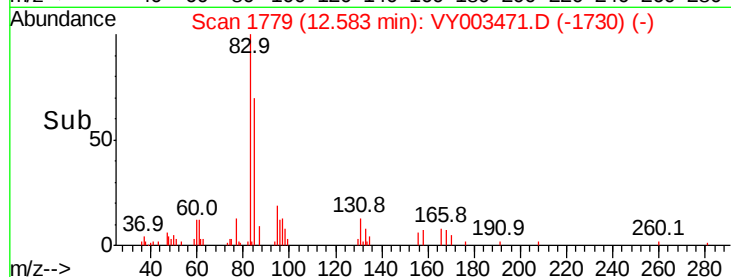
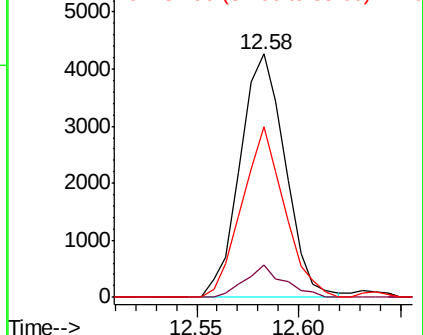
85 66.2 32.0 96.2



Abundance Ion 82.90 (82.60 to 83.60): VY003471.D (-1730) (-)

Ion 130.80 (130.50 to 131.50): VY003471.D (-1730) (-)

Ion 84.90 (84.60 to 85.60): VY003471.D (-1730) (-)



#76

1,2,3-Trichloropropane

Concen: 4.978 ug/l

RT: 12.63 min Scan# 1787

Delta R.T. -0.00 min

Lab File: VY003471.D

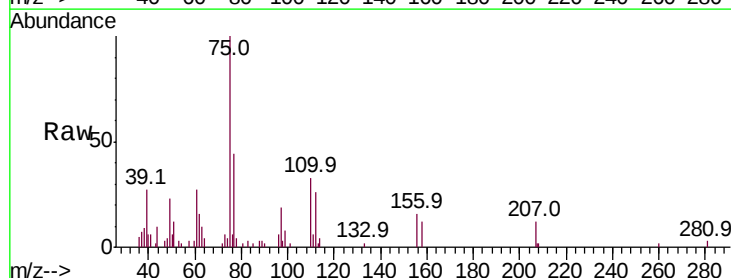
Acq: 02 Nov 2020 14:42

Tgt Ion: 75 Resp: 9128

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

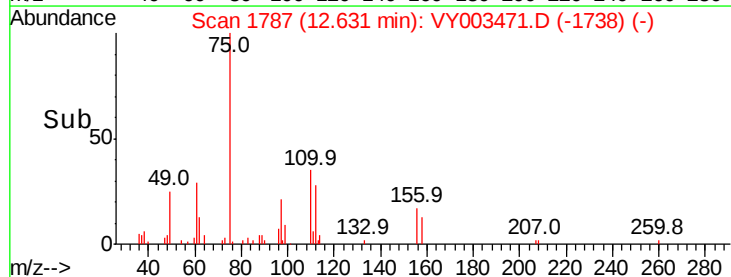
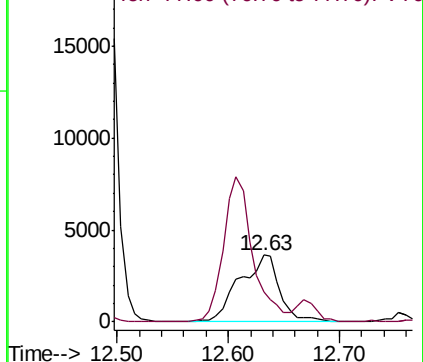
75 100

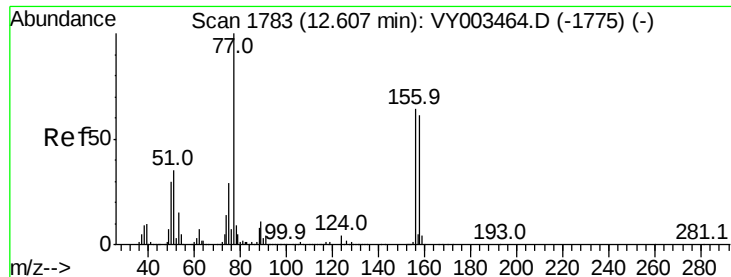
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY003471.D (-1738) (-)

Ion 77.00 (76.70 to 77.70): VY003471.D (-1738) (-)





#77

Bromobenzene

Concen: 2.820 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. 0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

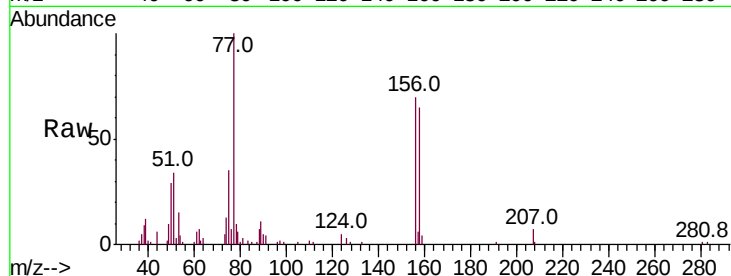
Tot Ion:156 Resp: 8112

Ion Ratio Lower Upper

156 100

77 176.5 87.0 260.9

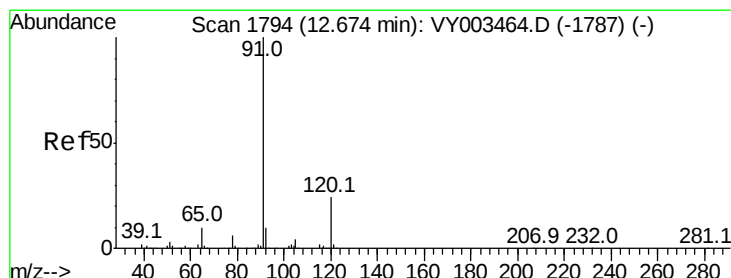
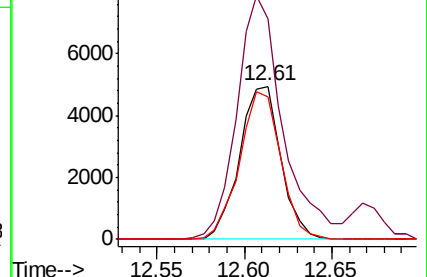
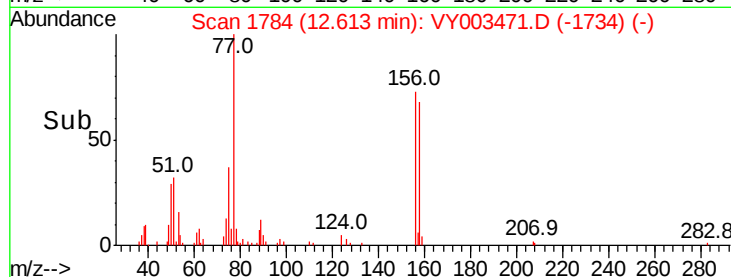
158 96.9 48.7 146.1



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.792 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VY003471.D

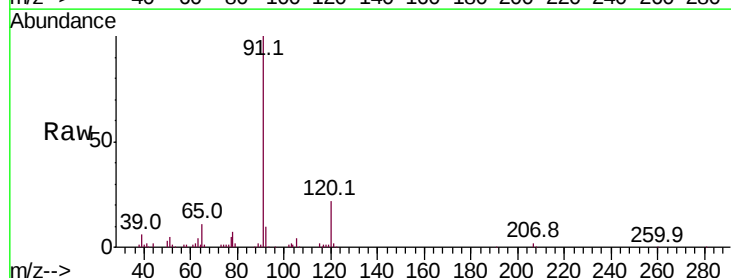
Acq: 02 Nov 2020 14:42

Tgt Ion: 91 Resp: 37227

Ion Ratio Lower Upper

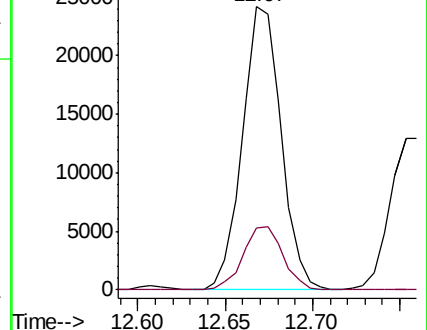
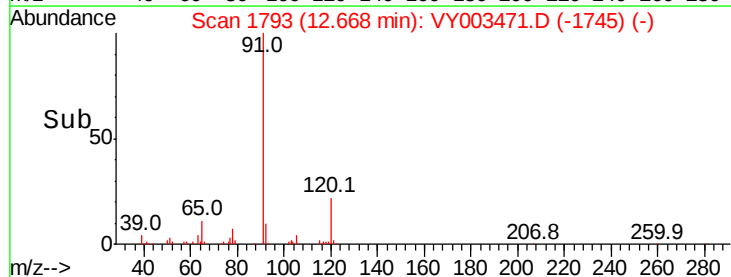
91 100

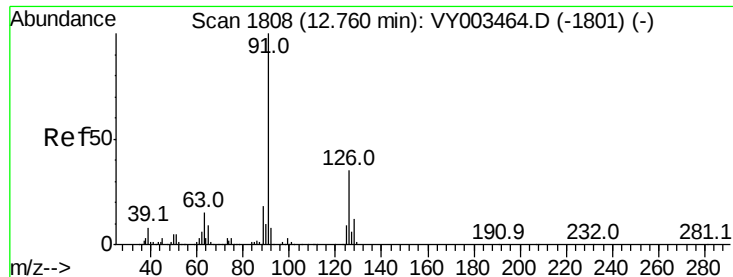
120 23.0 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V

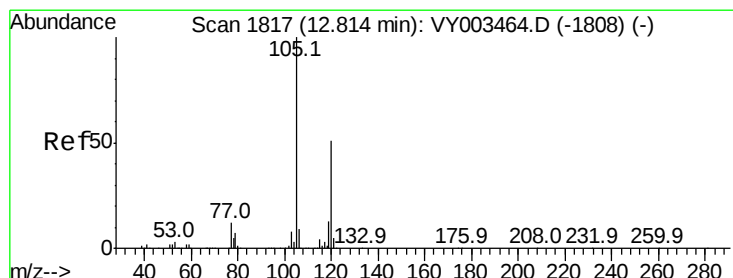
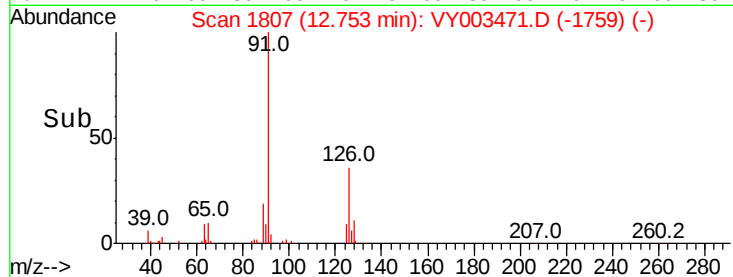
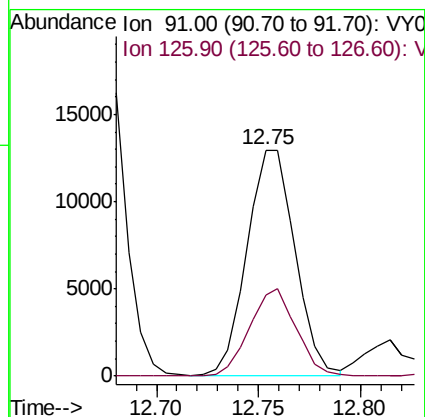
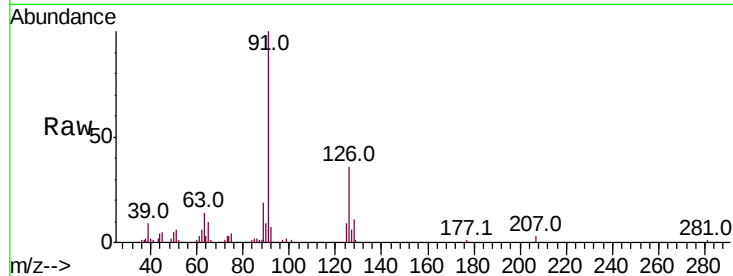




#79
 2-Chlorotoluene
 Concen: 2.873 ug/l
 RT: 12.75 min Scan# 1807
 Delta R.T. -0.01 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

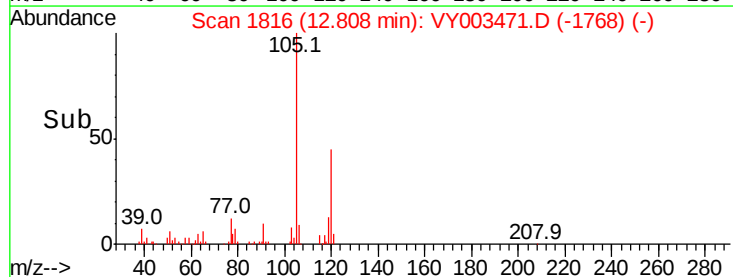
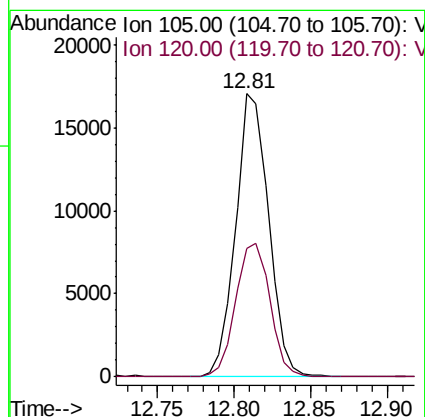
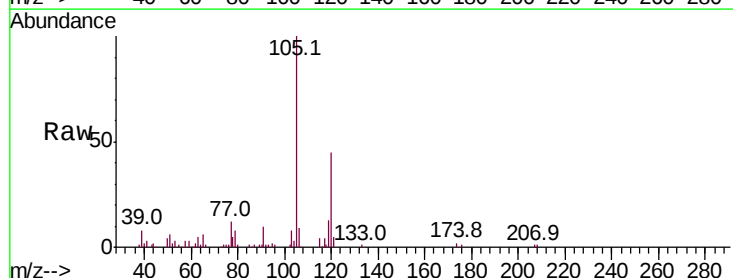
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

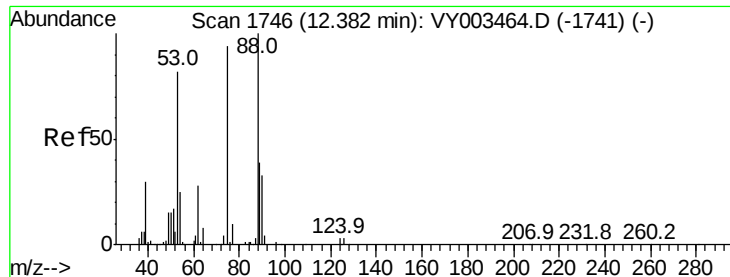
Tot Ion: 91 Resp: 21405
 Ion Ratio Lower Upper
 91 100
 126 37.2 17.8 53.3



#80
 1,3,5-Trimethylbenzene
 Concen: 2.719 ug/l
 RT: 12.81 min Scan# 1816
 Delta R.T. -0.01 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Tgt Ion: 105 Resp: 25508
 Ion Ratio Lower Upper
 105 100
 120 49.0 25.3 75.9





#81

trans-1,4-Dichloro-2-butene

Concen: 93.918 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

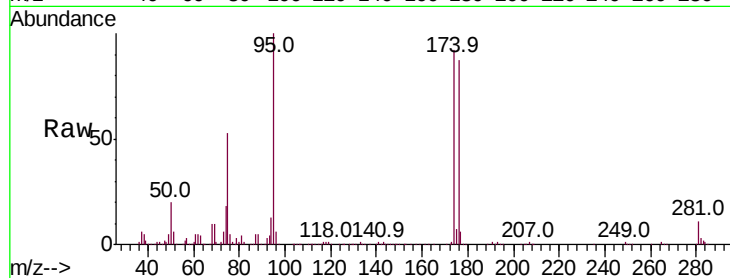
Tot Ion: 75 Resp: 82513

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

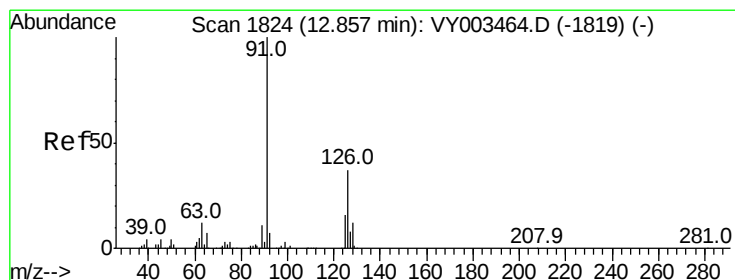
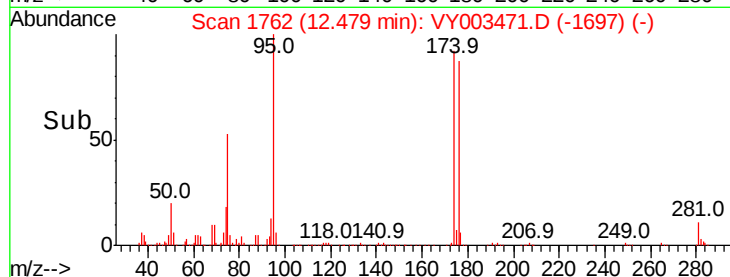
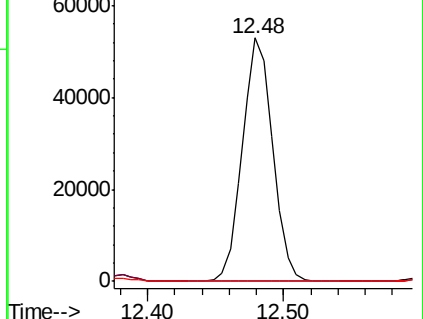
89 0.2 35.8 53.8#



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: 2.858 ug/l

RT: 12.86 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VY003471.D

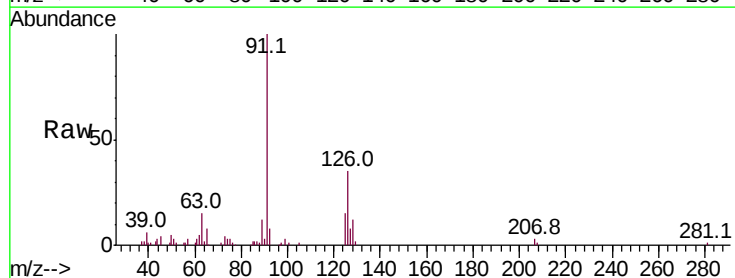
Acq: 02 Nov 2020 14:42

Tgt Ion: 91 Resp: 22254

Ion Ratio Lower Upper

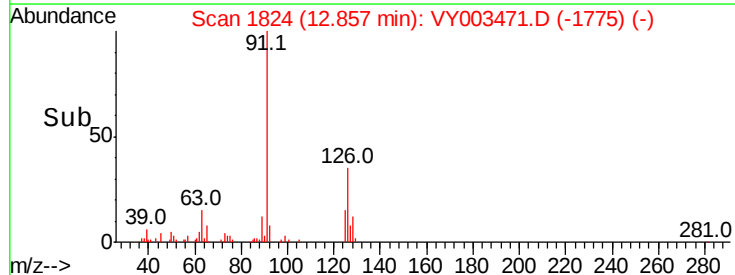
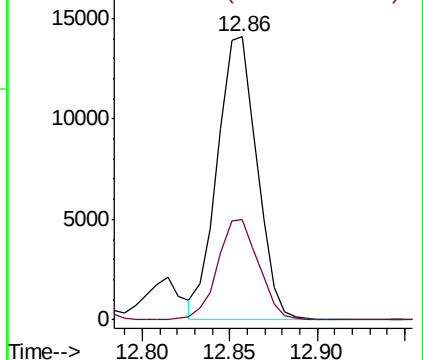
91 100

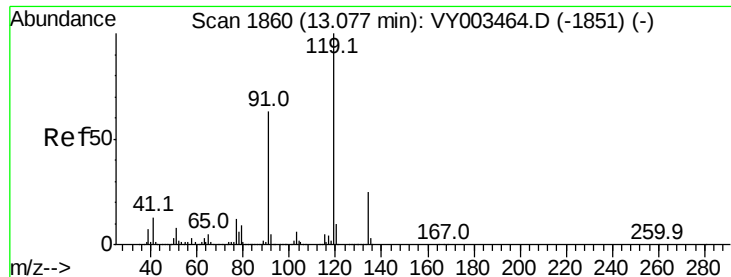
126 36.5 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.658 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

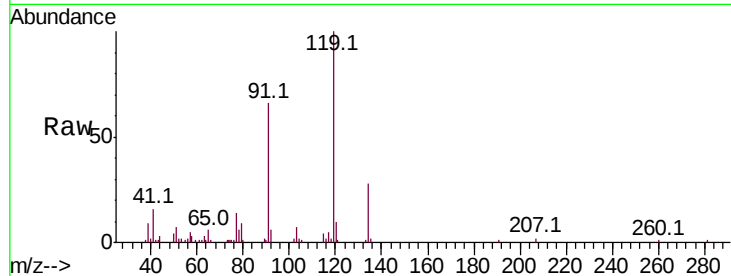
Tot Ion:119 Resp: 22110

Ion Ratio Lower Upper

119 100

91 63.1 31.1 93.2

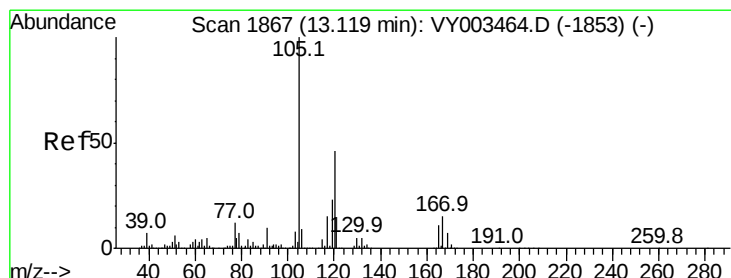
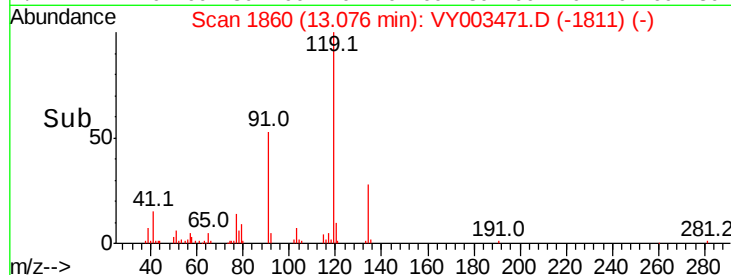
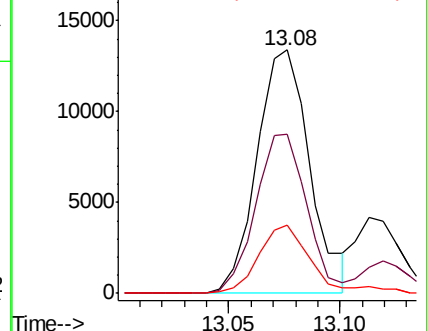
134 28.0 13.4 40.1



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: 2.618 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003471.D

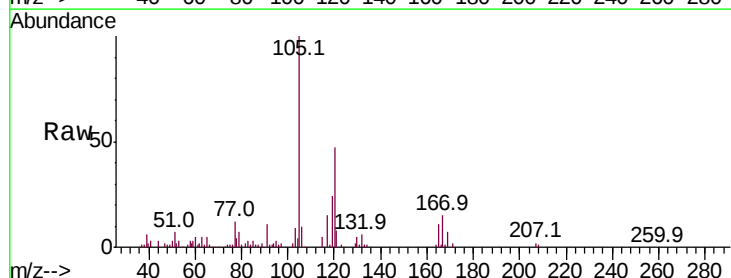
Acq: 02 Nov 2020 14:42

Tgt Ion:105 Resp: 24546

Ion Ratio Lower Upper

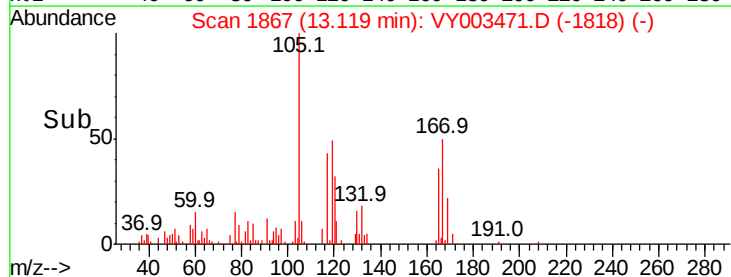
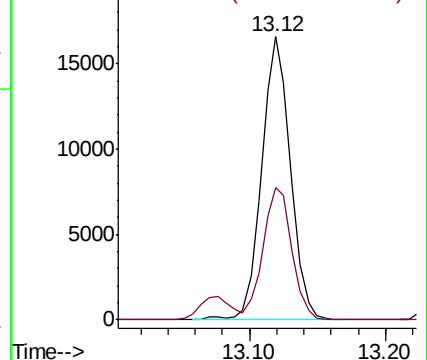
105 100

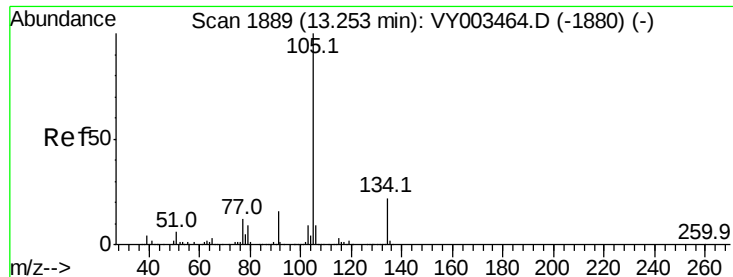
120 46.8 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.768 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

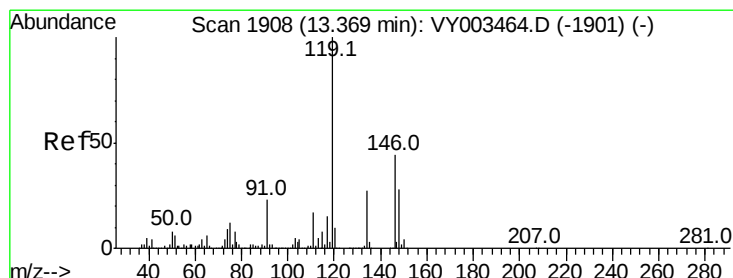
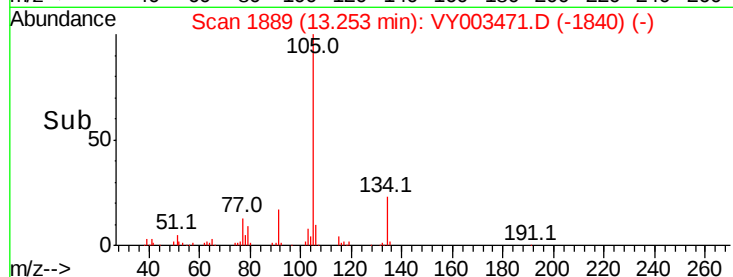
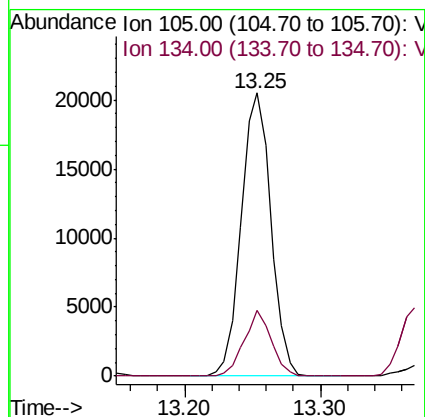
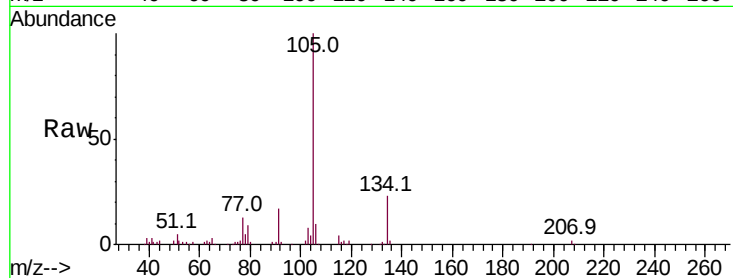
LOD-MDL-SOIL-01-QT4-2020

Tot Ion:105 Resp: 31177

Ion Ratio Lower Upper

105 100

134 21.3 10.6 31.8



#86

p-Isopropyltoluene

Concen: 2.625 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

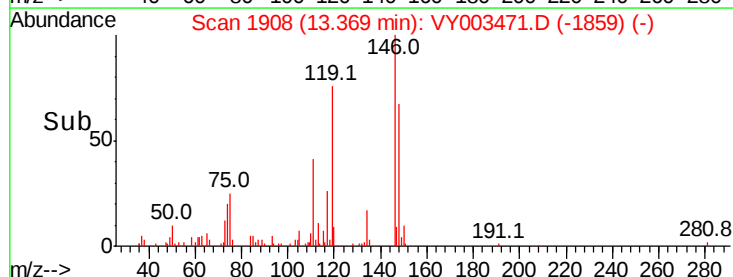
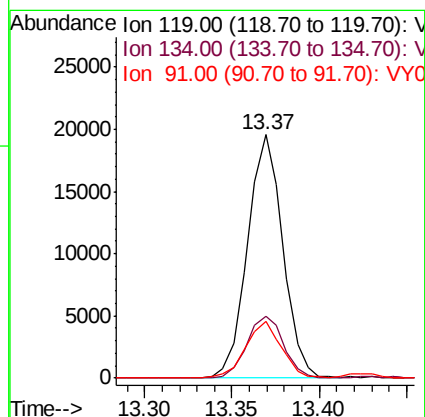
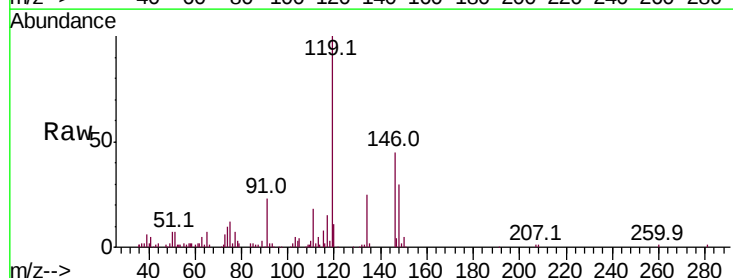
Tgt Ion:119 Resp: 27424

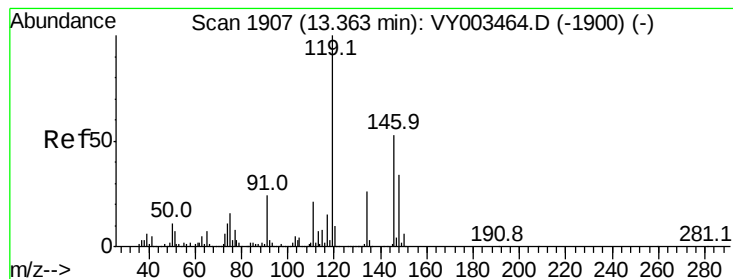
Ion Ratio Lower Upper

119 100

134 26.6 13.6 40.7

91 23.8 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 2.847 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

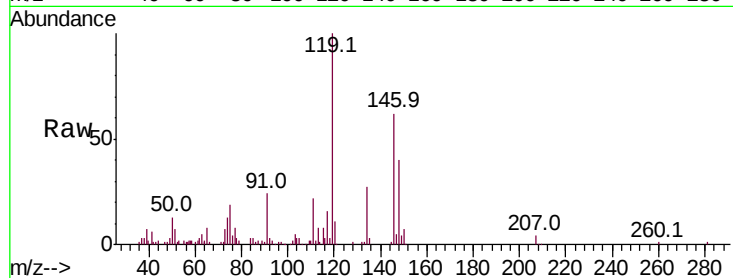
Tot Ion:146 Resp: 15256

Ion Ratio Lower Upper

146 100

111 37.3 19.1 57.1

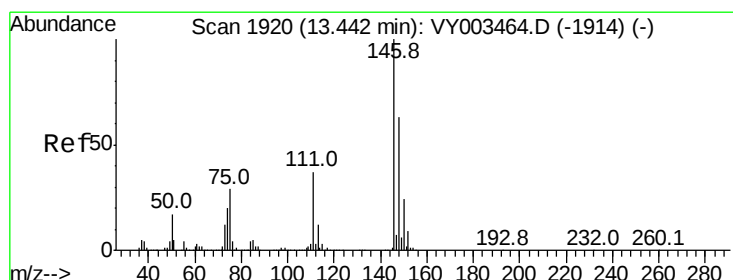
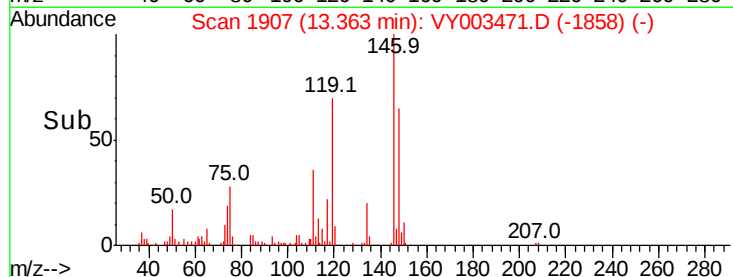
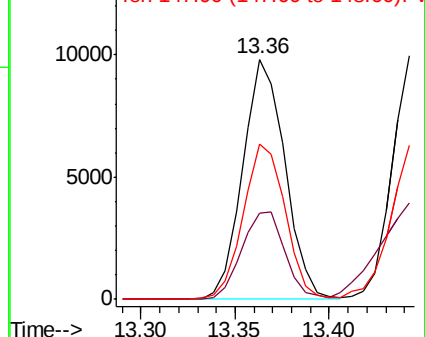
148 64.2 32.4 97.0



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



#88

1,4-Dichlorobenzene

Concen: 3.066 ug/l

RT: 13.45 min Scan# 1921

Delta R.T. 0.01 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

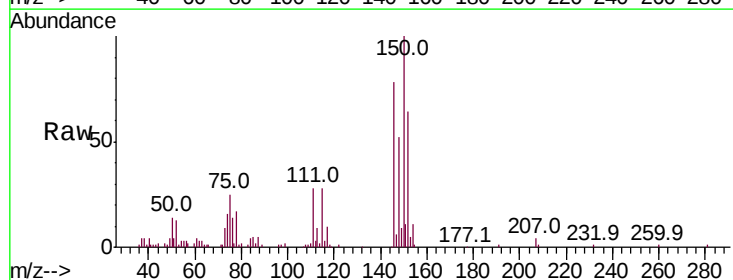
Tgt Ion:146 Resp: 16338

Ion Ratio Lower Upper

146 100

111 48.0 18.3 54.8

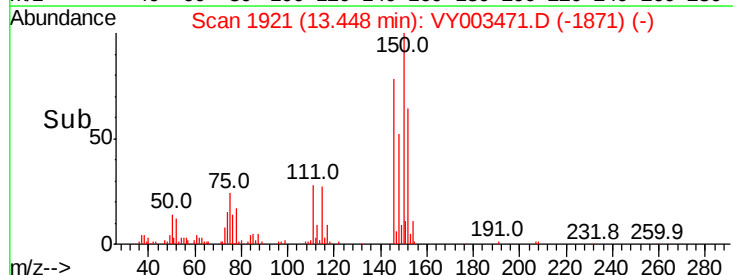
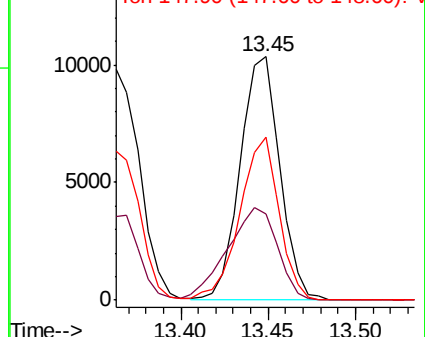
148 66.4 32.0 96.0

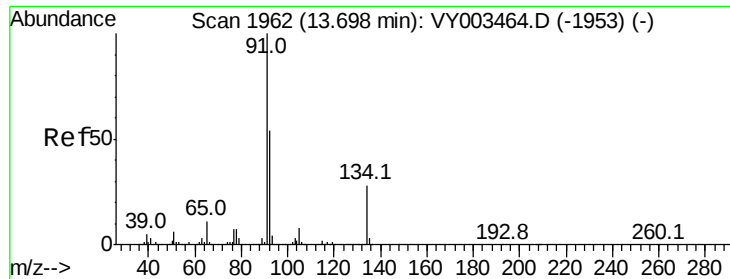


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 2.743 ug/l

RT: 13.70 min Scan# 1962

Delta R.T. -0.00 min

Lab File: VY003471.D

Acq: 02 Nov 2020 14:42

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2020

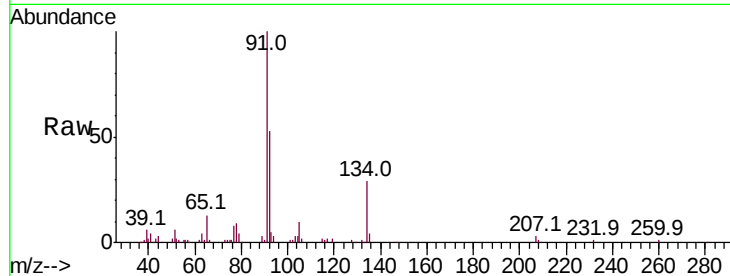
Tot Ion: 91 Resp: 26170

Ion Ratio Lower Upper

91 100

92 53.2 26.7 80.1

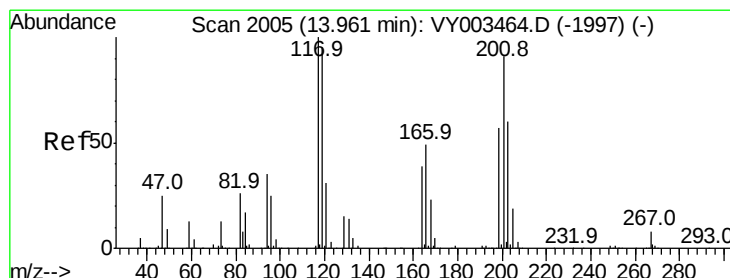
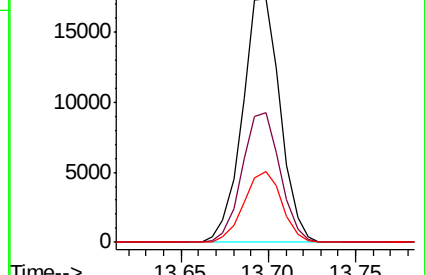
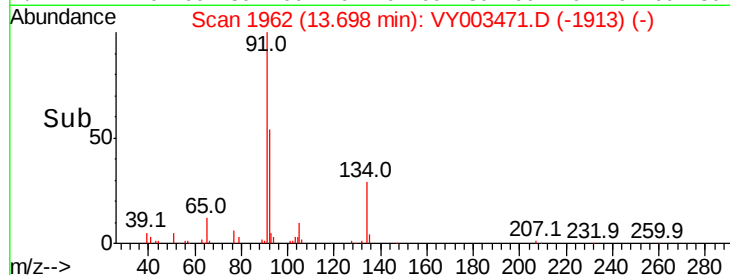
134 29.0 13.8 41.3



Abundance Ion 91.00 (90.70 to 91.70): VY003471.D (-1913) (-)

Ion 92.00 (91.70 to 92.70): VY003471.D (-1913) (-)

Ion 134.00 (133.70 to 134.70): VY003471.D (-1913) (-)



#90

Hexachloroethane

Concen: 2.814 ug/l

RT: 13.96 min Scan# 2005

Delta R.T. -0.00 min

Lab File: VY003471.D

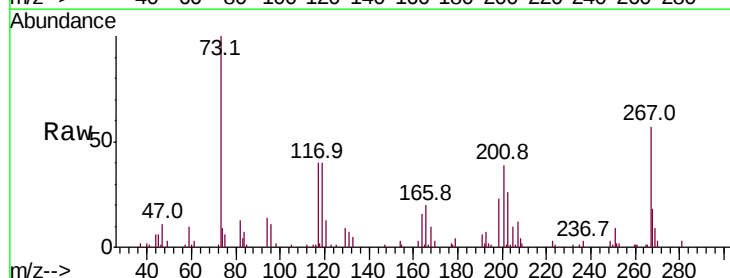
Acq: 02 Nov 2020 14:42

Tgt Ion: 117 Resp: 4948

Ion Ratio Lower Upper

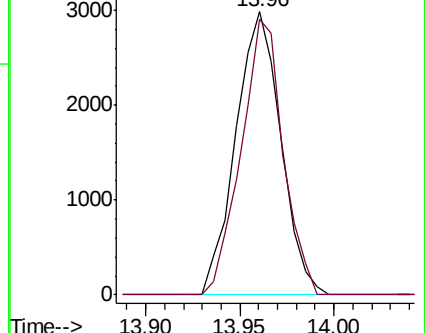
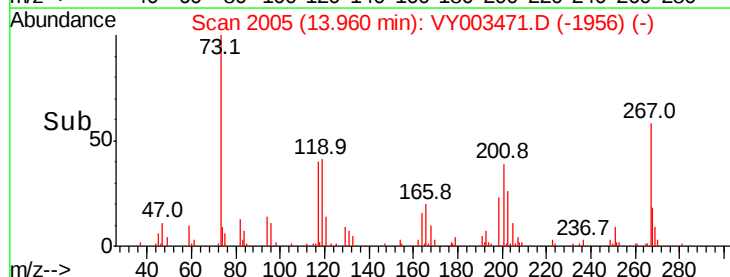
117 100

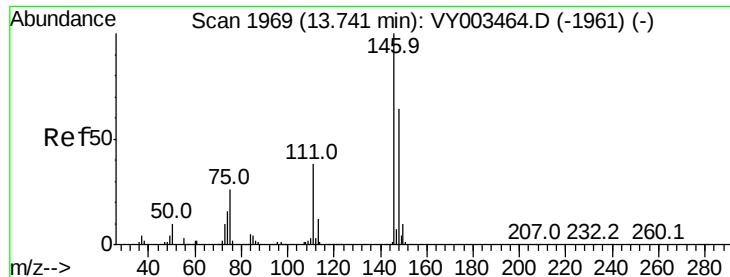
201 90.5 46.6 139.8



Abundance Ion 116.80 (116.50 to 117.50): VY003471.D (-1956) (-)

Ion 200.70 (200.40 to 201.40): VY003471.D (-1956) (-)

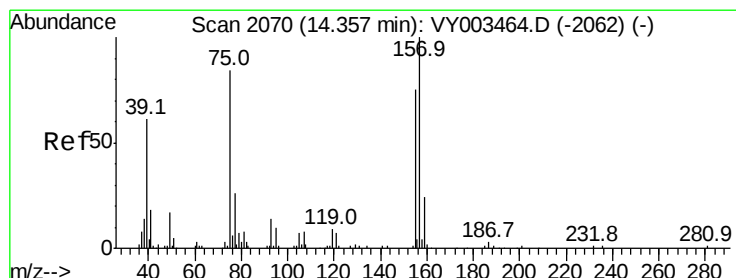
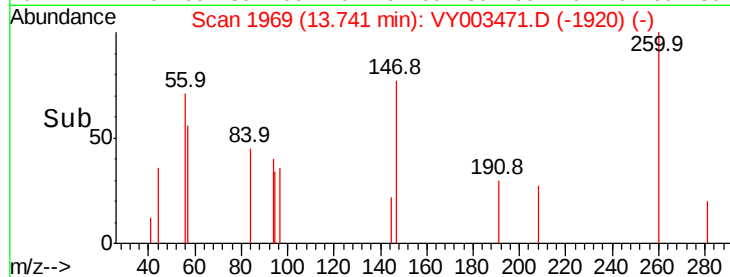
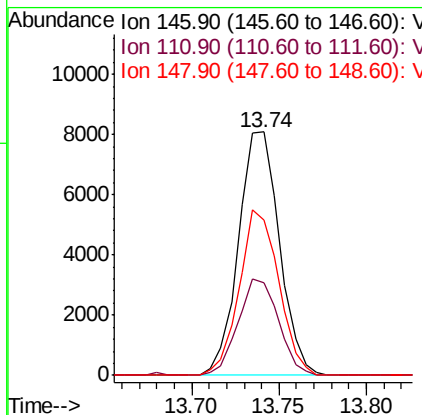
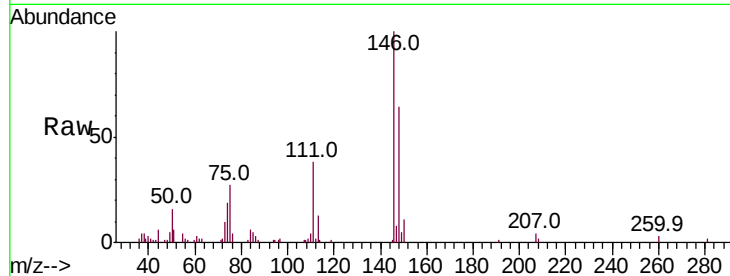




#91
 1,2-Dichlorobenzene
 Concen: 2.766 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

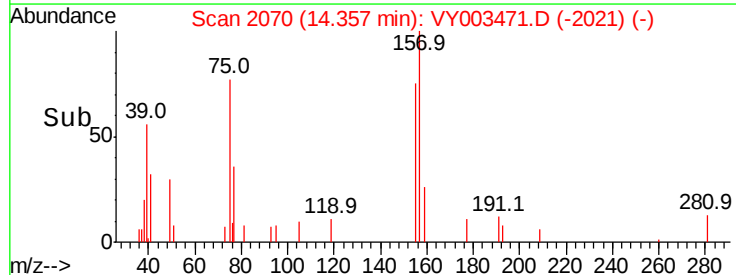
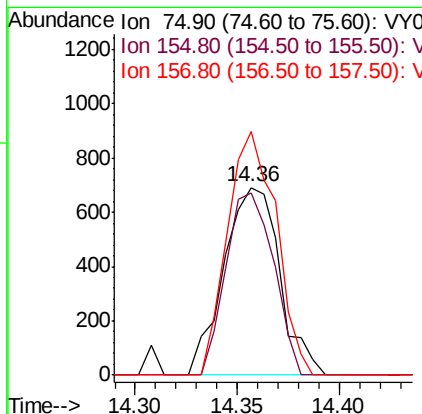
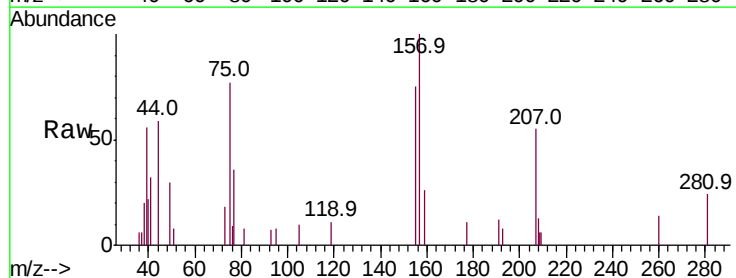
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

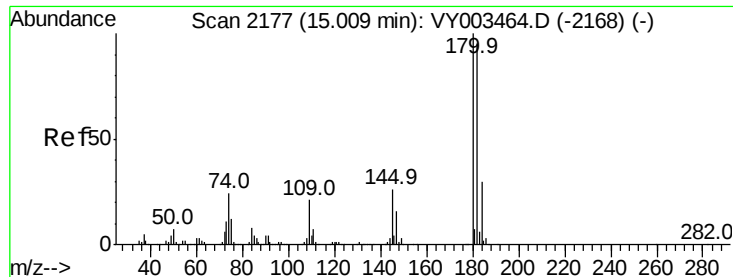
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.3	57.8
148	65.3	32.3	96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.011 ug/l
 RT: 14.36 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.5	45.6	136.7
157	112.7	60.3	180.8

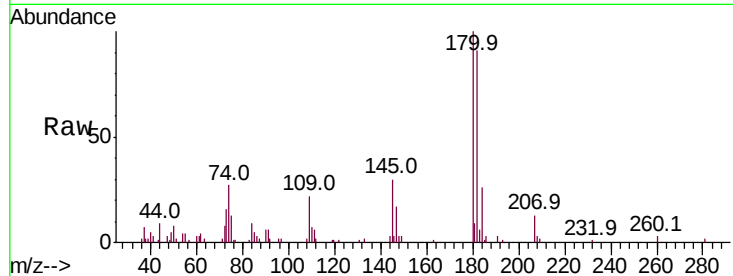




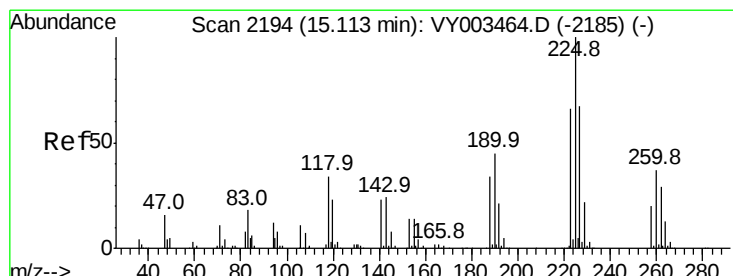
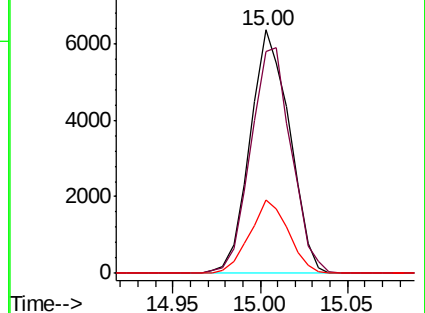
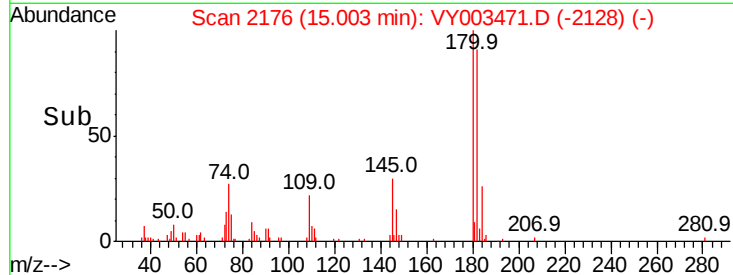
#93
 1,2,4-Trichlorobenzene
 Concen: 2.959 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2020

Tot Ion:180 Resp: 9963
 Ion Ratio Lower Upper
 180 100
 182 95.3 48.1 144.3
 145 29.6 13.8 41.3

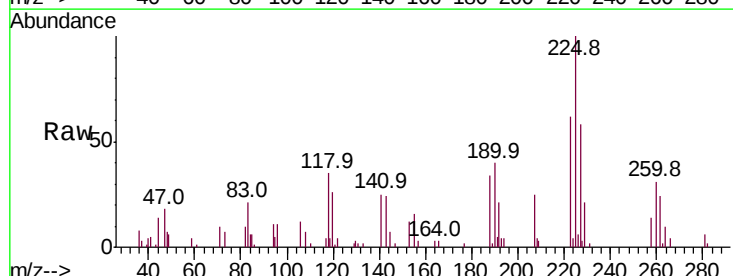


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

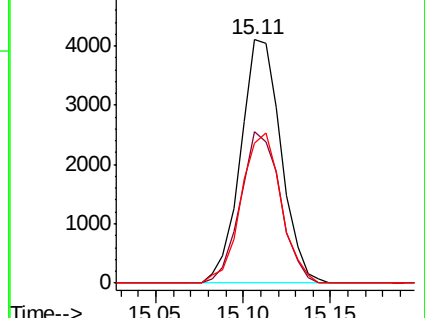
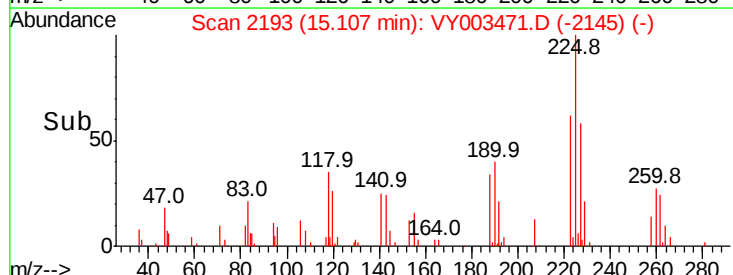


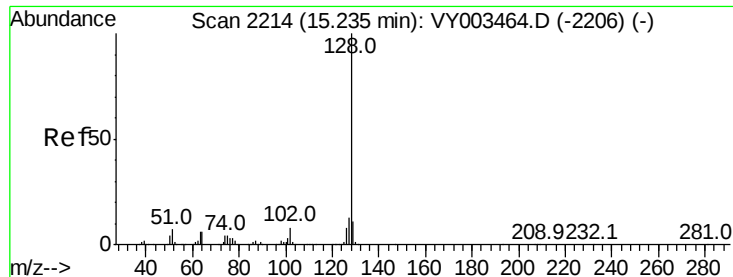
#94
 Hexachlorobutadiene
 Concen: 3.045 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY003471.D
 Acq: 02 Nov 2020 14:42

Tgt Ion:225 Resp: 6595
 Ion Ratio Lower Upper
 225 100
 223 61.4 32.1 96.3
 227 61.3 32.4 97.2



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

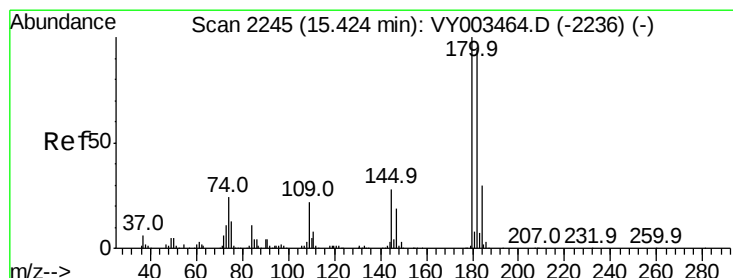
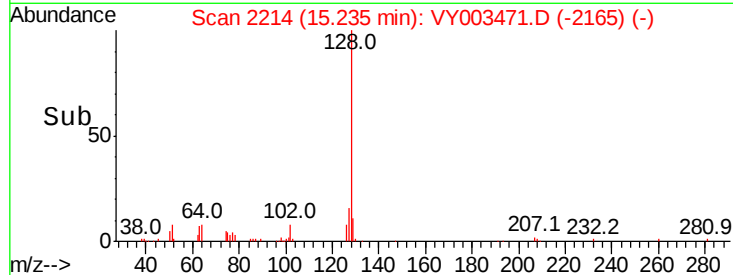
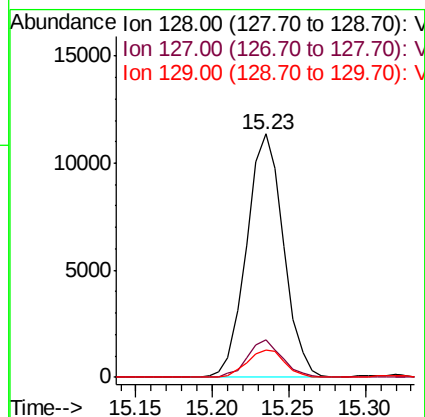
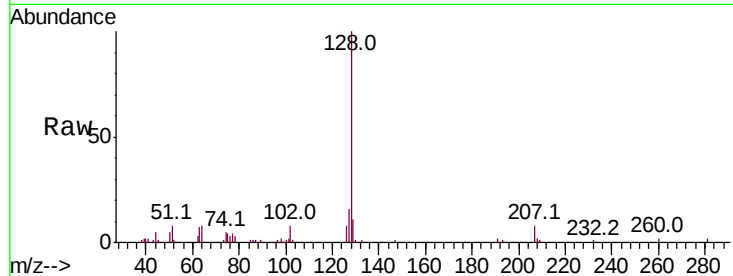




#95
Naphthalene
Concen: 2.829 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.5	15.7
129	11.3	8.6	13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.797 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VY003471.D
Acq: 02 Nov 2020 14:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	46.9	140.7
145	29.7	14.4	43.2

