

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110525\
 Data File : VY023685.D
 Acq On : 05 Nov 2025 12:15
 Operator : SY/MD
 Sample : Q3530-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2025

Quant Time: Nov 06 03:29:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	503044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	797580	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	692270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	336944	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	239936	55.916	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.840%	
35) Dibromofluoromethane	7.640	113	252577	50.674	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.340%	
50) Toluene-d8	10.109	98	932274	50.211	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.420%	
62) 4-Bromofluorobenzene	12.408	95	292668	48.742	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 97.480%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	12518	3.791	ug/l	98
3) Chloromethane	2.074	50	20199	4.371	ug/l	98
4) Vinyl Chloride	2.202	62	25247	4.199	ug/l	99
5) Bromomethane	2.598	94	25360	5.014	ug/l	96
6) Chloroethane	2.739	64	17791	4.281	ug/l	98
7) Trichlorofluoromethane	3.056	101	34954	4.128	ug/l	97
8) Diethyl Ether	3.458	74	9876	4.349	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	20366	4.365	ug/l	99
10) Methyl Iodide	4.013	142	17961	3.260	ug/l	99
11) Tert butyl alcohol	4.854	59	14602	52.774	ug/l #	86
12) 1,1-Dichloroethene	3.799	96	18842	4.192	ug/l	95
13) Acrolein	3.659	56	9460	26.601	ug/l	97
14) Allyl chloride	4.385	41	24034	4.393	ug/l	95
15) Acrylonitrile	5.074	53	18932	21.815	ug/l	97
16) Acetone	3.873	43	20472	19.193	ug/l	100
17) Carbon Disulfide	4.110	76	58888	4.269	ug/l	99
18) Methyl Acetate	4.391	43	10935	4.648	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	40761	3.911	ug/l	94
20) Methylene Chloride	4.616	84	31582	6.134	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	20893	4.123	ug/l	93
22) Diisopropyl ether	6.031	45	47599	3.905	ug/l	95
23) Vinyl Acetate	5.964	43	125483	19.290	ug/l	96
24) 1,1-Dichloroethane	5.915	63	35080	4.320	ug/l	97
25) 2-Butanone	6.902	43	26780	21.716	ug/l	97
26) 2,2-Dichloropropane	6.890	77	36384	4.871	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	23949	4.138	ug/l	91
28) Bromochloromethane	7.250	49	14416	4.636	ug/l	96
29) Tetrahydrofuran	7.262	42	13355	20.334	ug/l	95
30) Chloroform	7.427	83	39922	4.406	ug/l	97
31) Cyclohexane	7.707	56	34263	4.845	ug/l #	70
32) 1,1,1-Trichloroethane	7.622	97	34656	4.280	ug/l	98
36) 1,1-Dichloropropene	7.835	75	25745	3.865	ug/l	98
37) Ethyl Acetate	6.994	43	10542	4.089	ug/l #	91
38) Carbon Tetrachloride	7.823	117	32125	4.094	ug/l	98
39) Methylcyclohexane	9.109	83	29773	3.498	ug/l	95
40) Benzene	8.079	78	85374	4.067	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.268	41	13977	9.931	ug/l #	37
42) 1,2-Dichloroethane	8.158	62	22711	4.276	ug/l	97
43) Isopropyl Acetate	8.201	43	19227	3.969	ug/l #	85
44) Trichloroethene	8.866	130	24884	4.127	ug/l	100
45) 1,2-Dichloropropane	9.140	63	19407	4.189	ug/l	96
46) Dibromomethane	9.231	93	11941	4.159	ug/l	97
47) Bromodichloromethane	9.426	83	29482	4.073	ug/l	94
48) Methyl methacrylate	9.219	41	8422	3.680	ug/l	95
49) 1,4-Dioxane	9.231	88	2557	87.031	ug/l #	93
51) 4-Methyl-2-Pentanone	9.999	43	45984	17.849	ug/l	100
52) Toluene	10.170	92	53758	4.011	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	23954	3.911	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	28485	3.882	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	16505	4.302	ug/l	96
56) Ethyl methacrylate	10.438	69	14708	3.479	ug/l	95
57) 1,3-Dichloropropane	10.719	76	25397	4.173	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	28945	14.922	ug/l	100
59) 2-Hexanone	10.762	43	31200	16.599	ug/l	97
60) Dibromochloromethane	10.914	129	21529	4.084	ug/l	100
61) 1,2-Dibromoethane	11.012	107	14449	4.013	ug/l	98
64) Tetrachloroethene	10.646	164	29461	4.089	ug/l	98
65) Chlorobenzene	11.444	112	61256	4.065	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.518	131	20869	3.916	ug/l	94
67) Ethyl Benzene	11.518	91	87279	3.578	ug/l	98
68) m/p-Xylenes	11.627	106	67077	6.883	ug/l	99
69) o-Xylene	11.956	106	31628	3.511	ug/l	97
70) Styrene	11.969	104	49430	3.326	ug/l	99
71) Bromoform	12.133	173	12747	4.096	ug/l #	99
73) Isopropylbenzene	12.255	105	77666	3.446	ug/l	99
74) N-amyl acetate	12.072	43	12955	3.395	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	15448	4.292	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	20440	7.496	ug/l #	100
77) Bromobenzene	12.530	156	24009	4.107	ug/l	98
78) n-propylbenzene	12.597	91	96813	3.652	ug/l	99
79) 2-Chlorotoluene	12.676	91	59422	3.863	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	62768	3.428	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	4428	3.670	ug/l	97
82) 4-Chlorotoluene	12.780	91	60813	3.834	ug/l	98
83) tert-Butylbenzene	12.993	119	57086	3.423	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	61168	3.373	ug/l	99
85) sec-Butylbenzene	13.176	105	83211	3.460	ug/l	100
86) p-Isopropyltoluene	13.292	119	66171	3.250	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	45287	3.936	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	46929	4.152	ug/l	94
89) n-Butylbenzene	13.615	91	60080	3.393	ug/l	99
90) Hexachloroethane	13.877	117	17862	4.082	ug/l	95
91) 1,2-Dichlorobenzene	13.657	146	39329	3.967	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2603	4.697	ug/l	88
93) 1,2,4-Trichlorobenzene	14.919	180	19996	3.526	ug/l	98
94) Hexachlorobutadiene	15.017	225	14099	3.794	ug/l	92
95) Naphthalene	15.139	128	26236	7.630	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	17302	3.651	ug/l	98

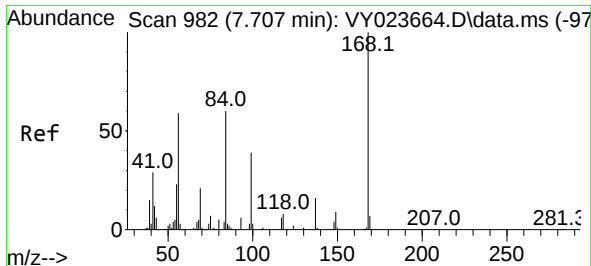
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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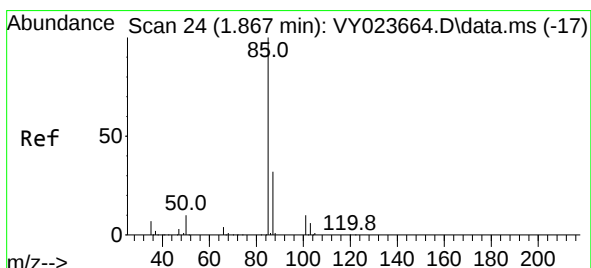
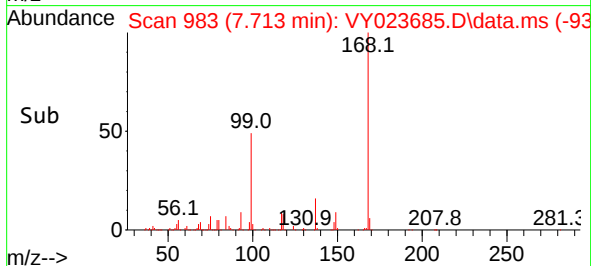
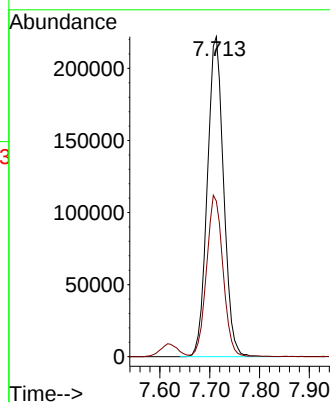
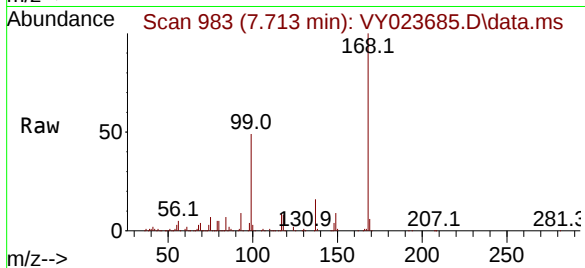
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023685.D
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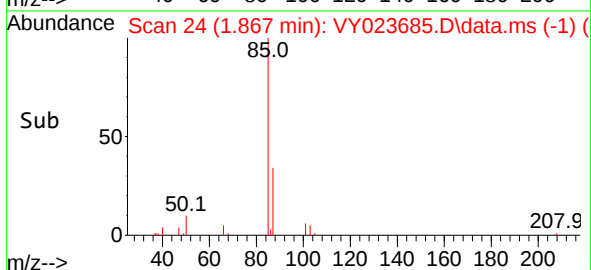
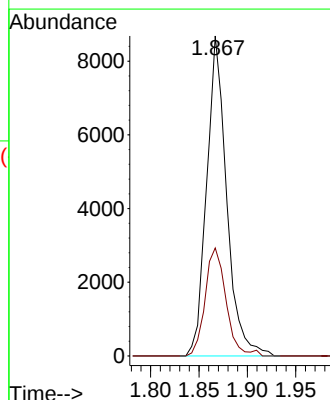
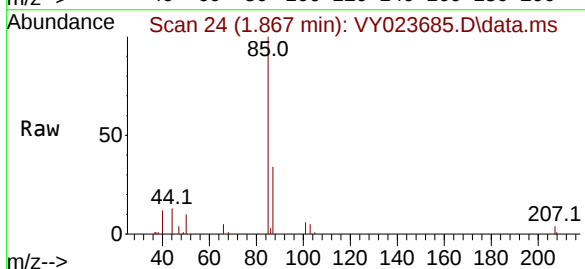
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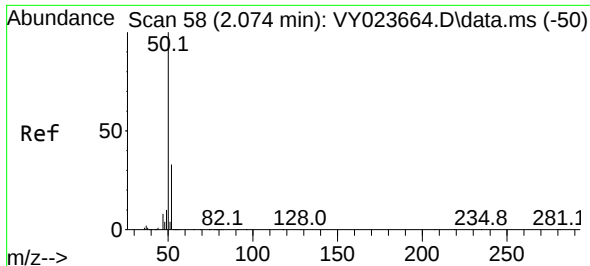
Tgt Ion:168 Resp: 503044
Ion Ratio Lower Upper
168 100
99 48.6 41.0 61.4



#2
Dichlorodifluoromethane
Concen: 3.791 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 85 Resp: 12518
Ion Ratio Lower Upper
85 100
87 33.7 16.2 48.6

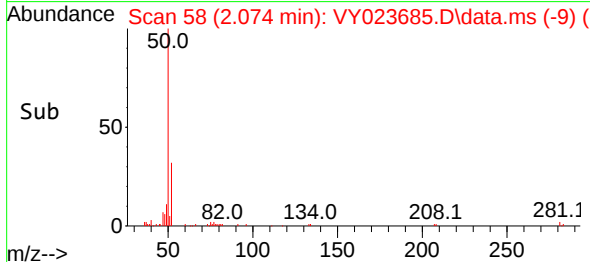
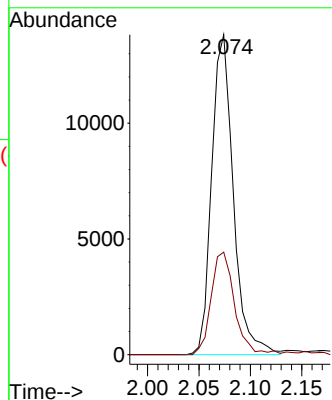
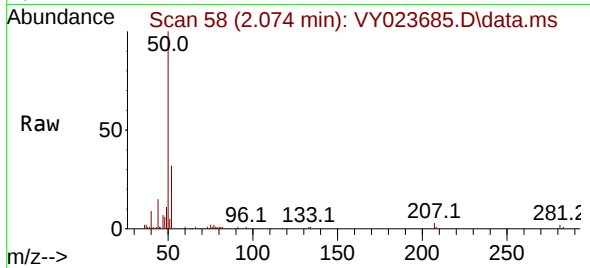




#3
Chloromethane
Concen: 4.371 ug/l
RT: 2.074 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

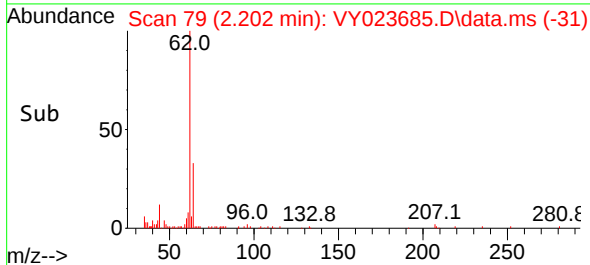
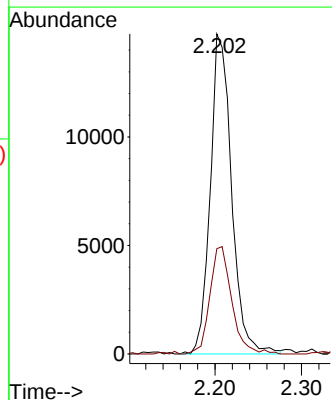
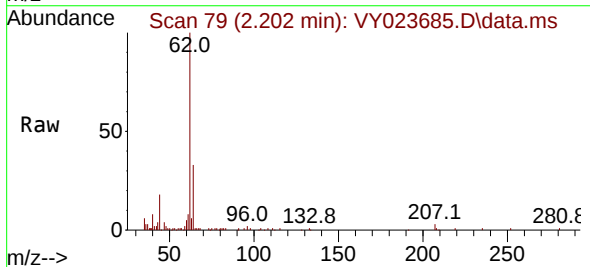
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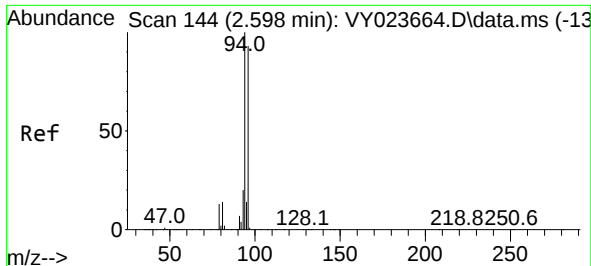
Tgt Ion: 50 Resp: 20199
Ion Ratio Lower Upper
50 100
52 32.0 26.5 39.7



#4
Vinyl Chloride
Concen: 4.199 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 62 Resp: 25247
Ion Ratio Lower Upper
62 100
64 32.9 25.7 38.5

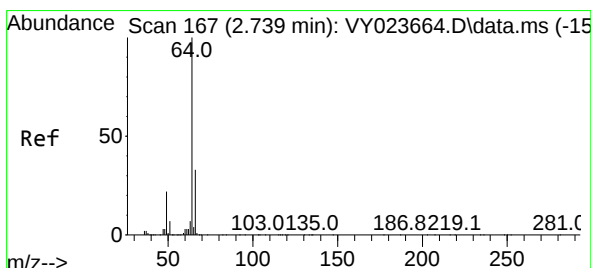
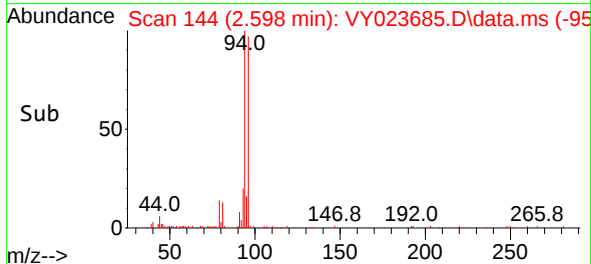
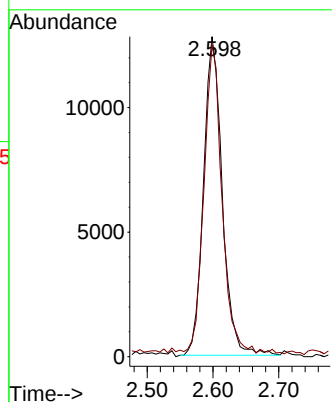
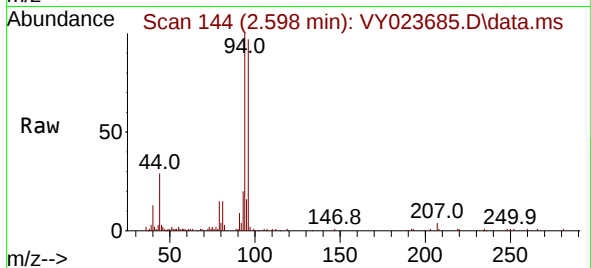




#5
Bromomethane
Concen: 5.014 ug/l
RT: 2.598 min Scan# 144
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

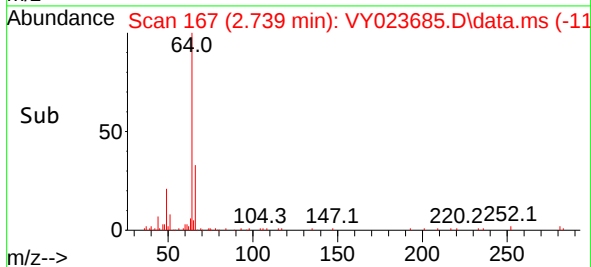
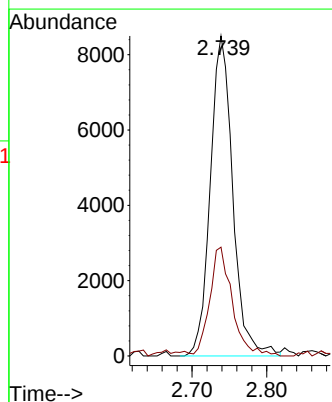
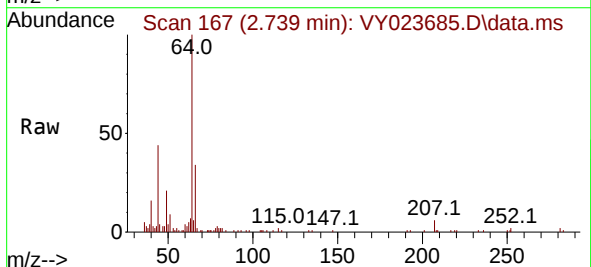
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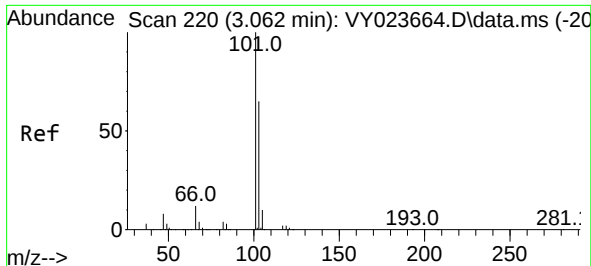
Tgt Ion: 94 Resp: 25360
Ion Ratio Lower Upper
94 100
96 96.5 74.4 111.6



#6
Chloroethane
Concen: 4.281 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 64 Resp: 17791
Ion Ratio Lower Upper
64 100
66 34.0 26.2 39.4

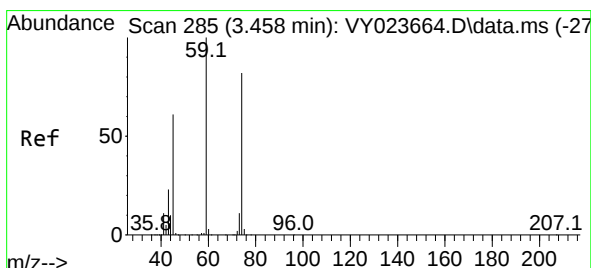
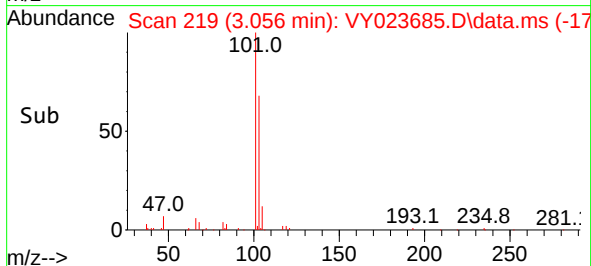
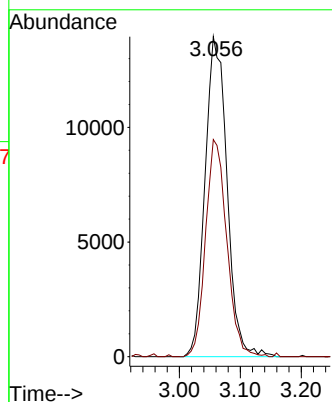
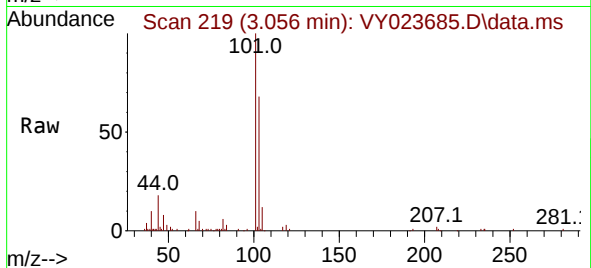




#7
Trichlorofluoromethane
Concen: 4.128 ug/l
RT: 3.056 min Scan# 219
Delta R.T. -0.006 min
Lab File: VY023685.D
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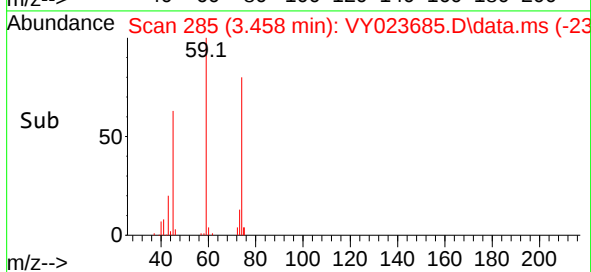
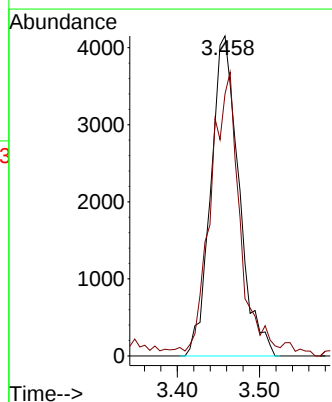
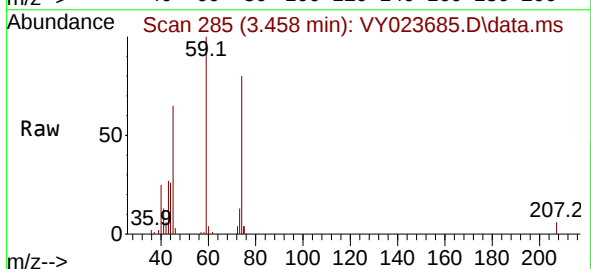
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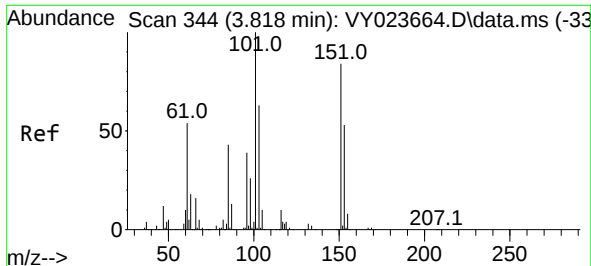
Tgt Ion:101 Resp: 34954
Ion Ratio Lower Upper
101 100
103 67.9 52.1 78.1



#8
Diethyl Ether
Concen: 4.349 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 74 Resp: 9876
Ion Ratio Lower Upper
74 100
45 86.4 40.6 121.7

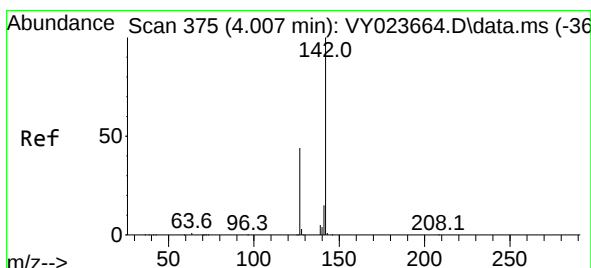
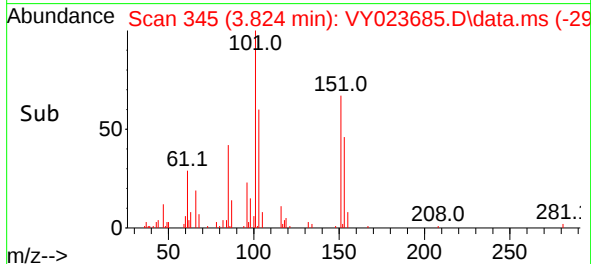
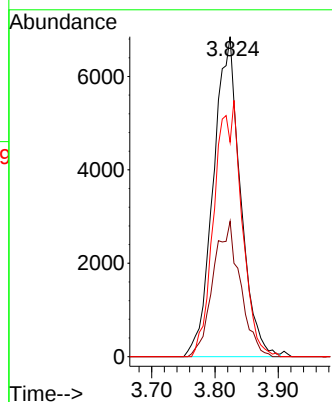
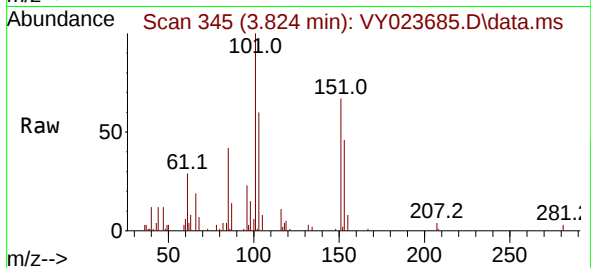




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.365 ug/l
RT: 3.824 min Scan# 344
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

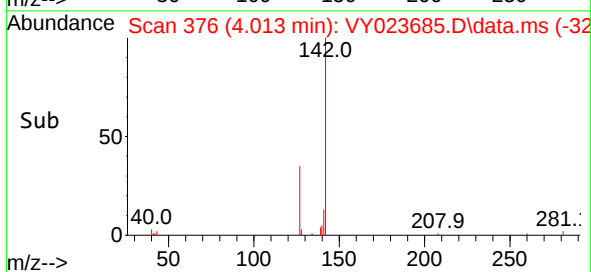
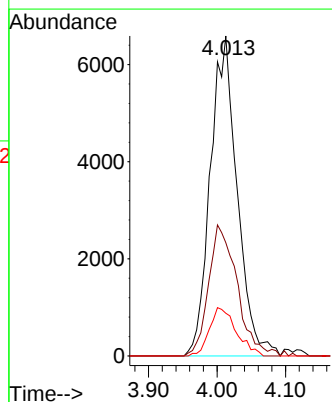
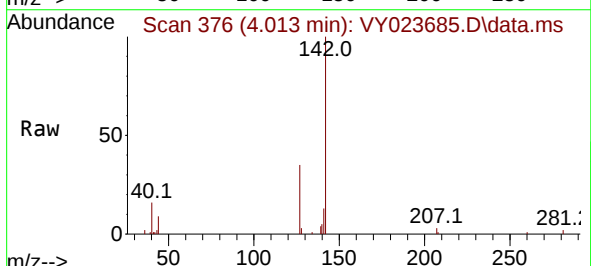
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ClientSampleId :
MDL-SOIL-03-QT4-2025

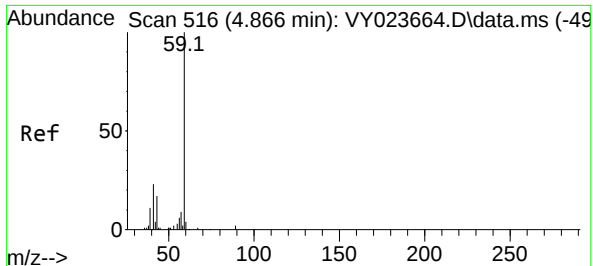
Tgt Ion:	101	Resp:	20366
Ion	Ratio	Lower	Upper
101	100		
85	42.2	34.4	51.6
151	81.8	65.6	98.4



#10
Methyl Iodide
Concen: 3.260 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion:	142	Resp:	17961
Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.6	51.8
141	15.1	11.6	17.4





#11

Tert butyl alcohol

Concen: 52.774 ug/l

RT: 4.854 min Scan# 516

Delta R.T. -0.012 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

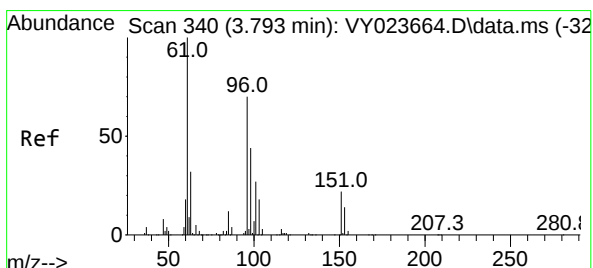
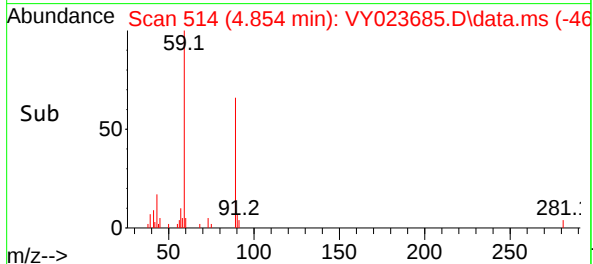
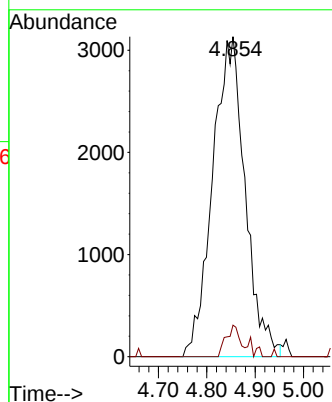
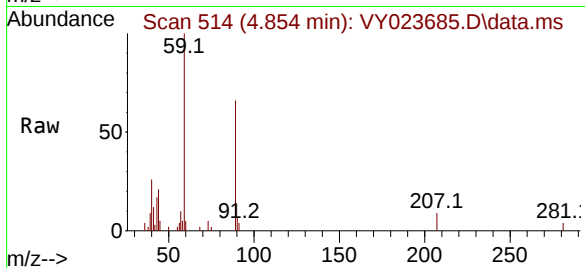
MDL-SOIL-03-QT4-2025

Tgt Ion: 59 Resp: 14602

Ion Ratio Lower Upper

59 100

57 4.1 7.4 11.2#



#12

1,1-Dichloroethene

Concen: 4.192 ug/l

RT: 3.799 min Scan# 341

Delta R.T. 0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

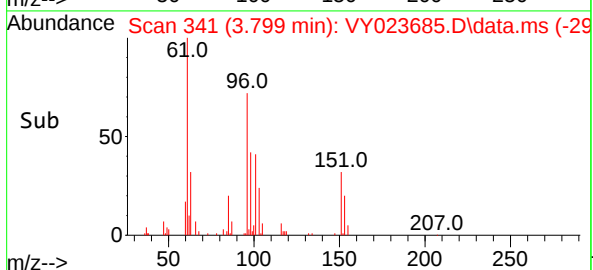
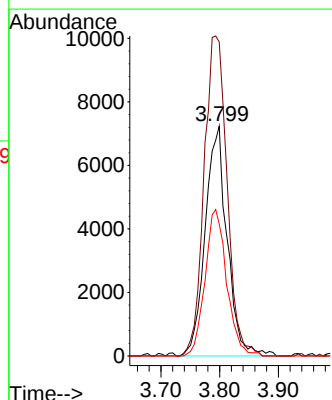
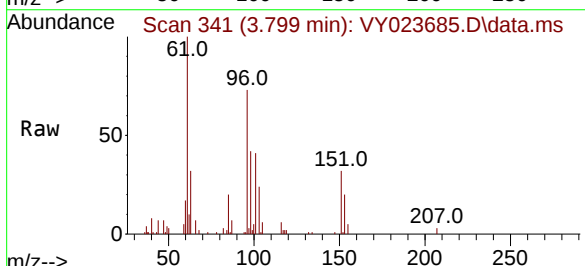
Tgt Ion: 96 Resp: 18842

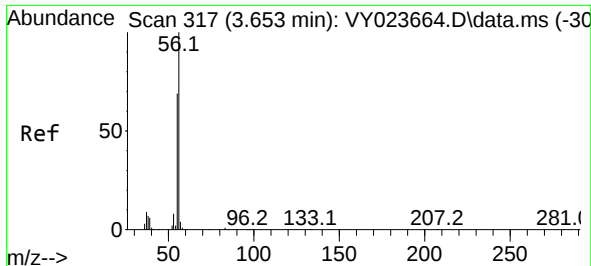
Ion Ratio Lower Upper

96 100

61 136.5 114.0 171.0

98 57.3 50.2 75.2

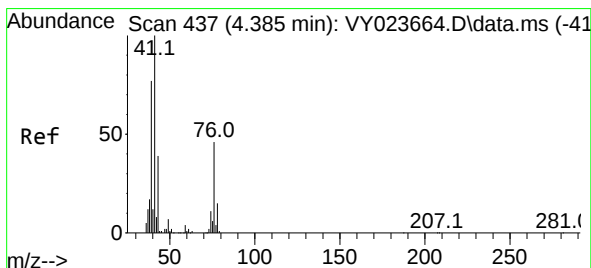
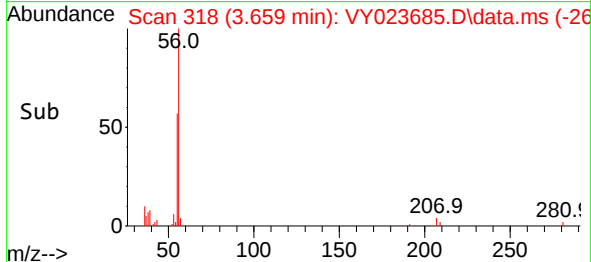
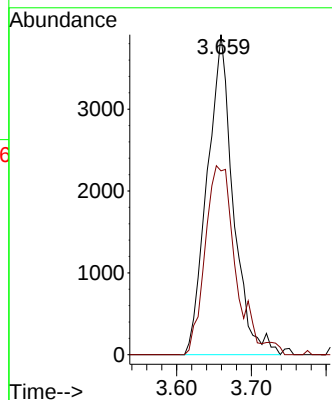
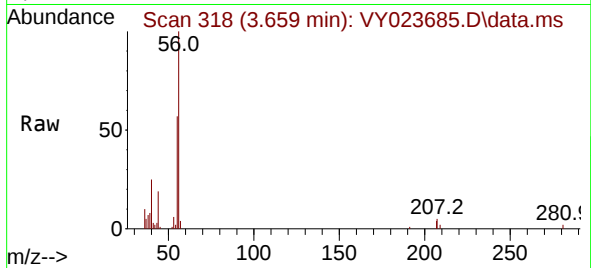




#13
Acrolein
Concen: 26.601 ug/l
RT: 3.659 min Scan# 317
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

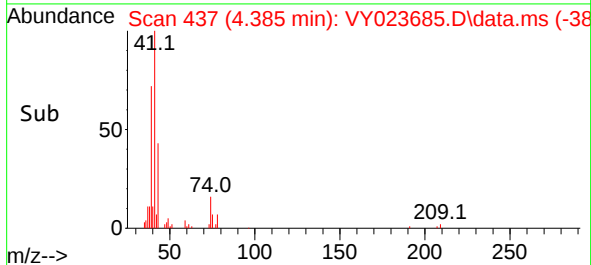
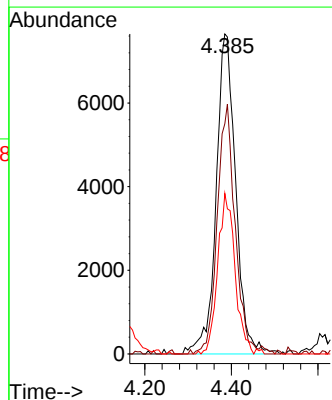
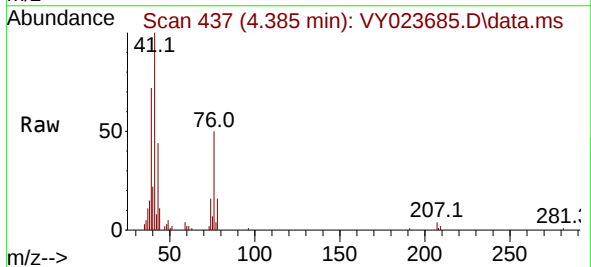
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

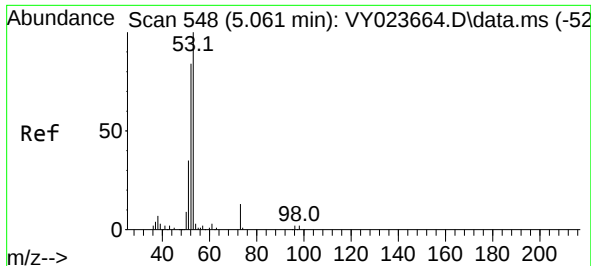
Tgt Ion: 56 Resp: 9460
Ion Ratio Lower Upper
56 100
55 68.0 56.6 84.8



#14
Allyl chloride
Concen: 4.393 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 41 Resp: 24034
Ion Ratio Lower Upper
41 100
39 70.9 60.4 90.6
76 44.1 38.0 57.0

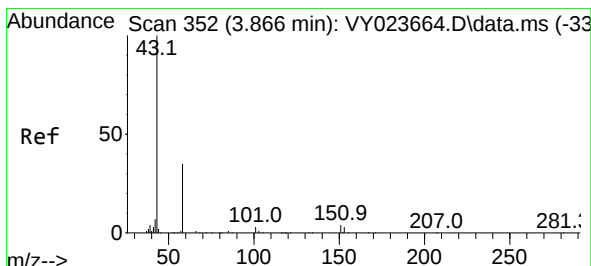
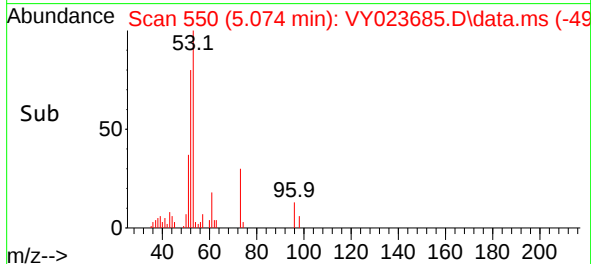
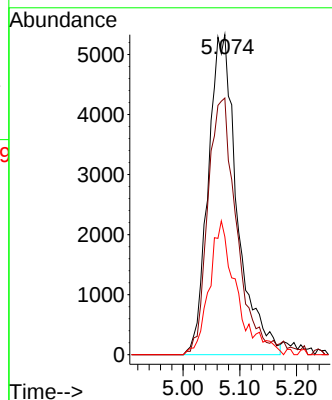
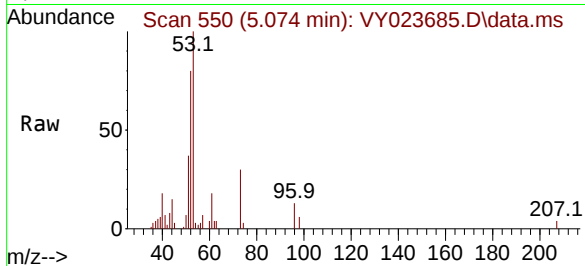




#15
Acrylonitrile
Concen: 21.815 ug/l
RT: 5.074 min Scan# 51
Delta R.T. 0.012 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

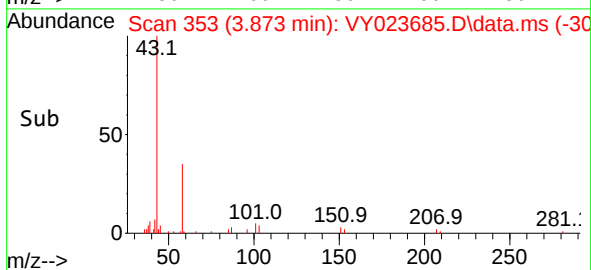
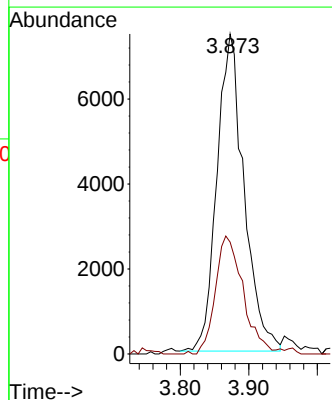
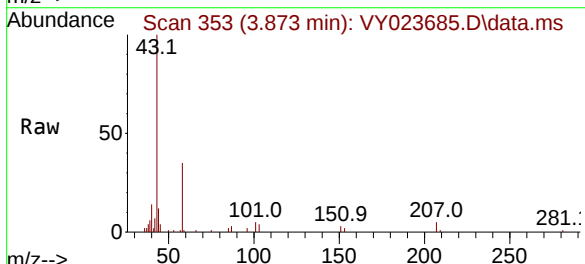
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

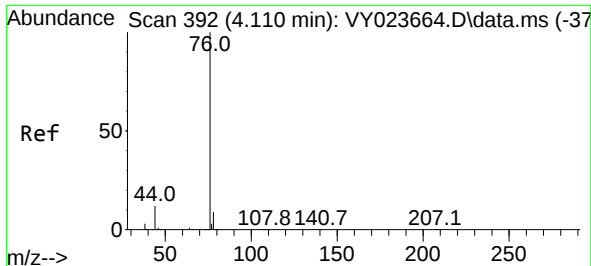
Tgt Ion: 53 Resp: 18932
Ion Ratio Lower Upper
53 100
52 78.9 64.9 97.3
51 39.5 29.4 44.0



#16
Acetone
Concen: 19.193 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 43 Resp: 20472
Ion Ratio Lower Upper
43 100
58 35.3 28.2 42.4

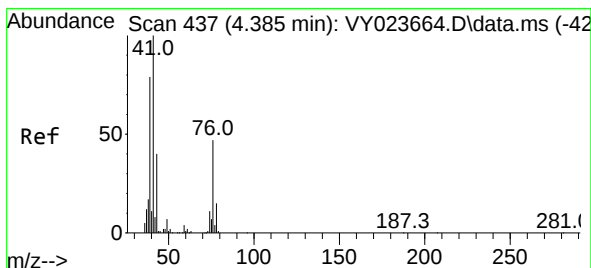
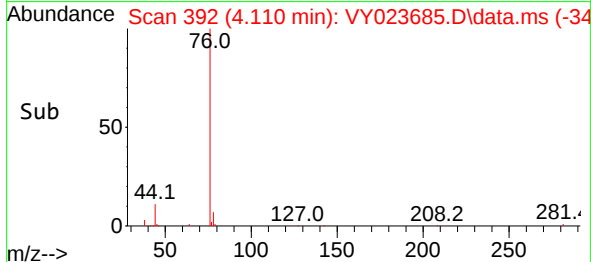
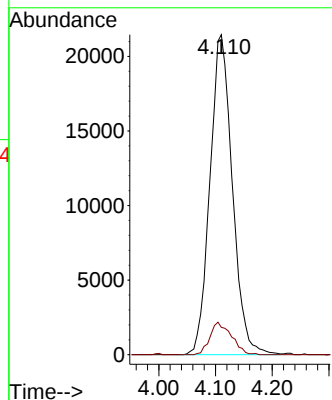
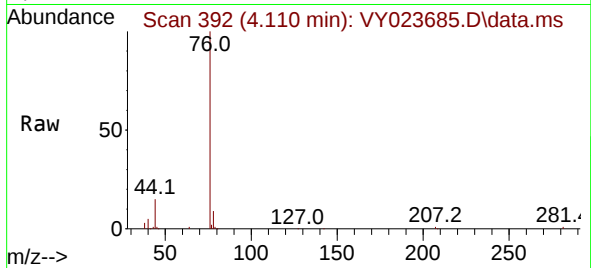




#17
Carbon Disulfide
Concen: 4.269 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

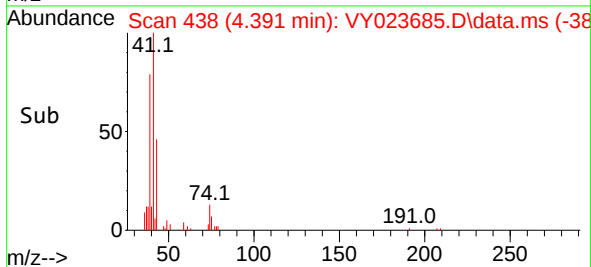
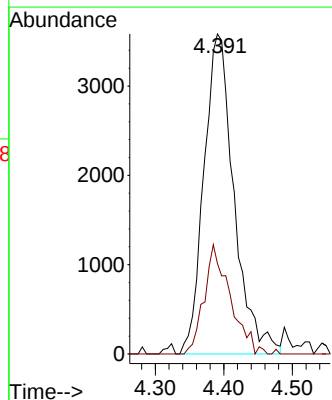
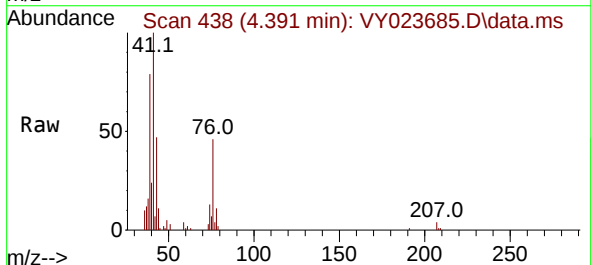
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

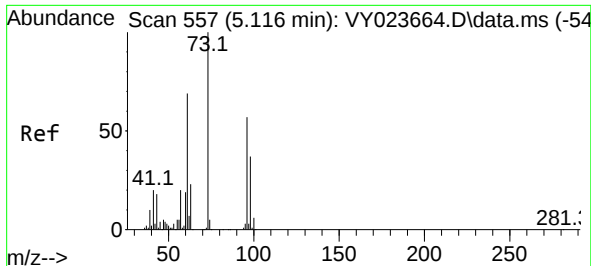
Tgt Ion: 76 Resp: 58888
Ion Ratio Lower Upper
76 100
78 8.5 7.1 10.7



#18
Methyl Acetate
Concen: 4.648 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 43 Resp: 10935
Ion Ratio Lower Upper
43 100
74 29.7 22.5 33.7

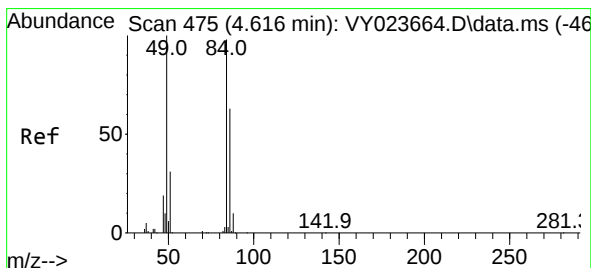
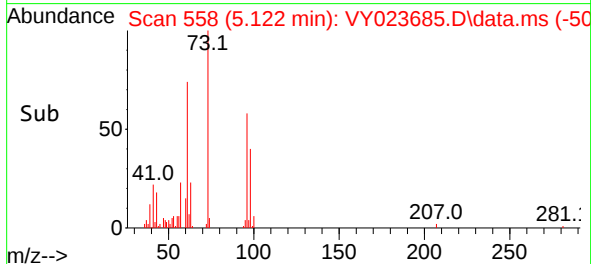
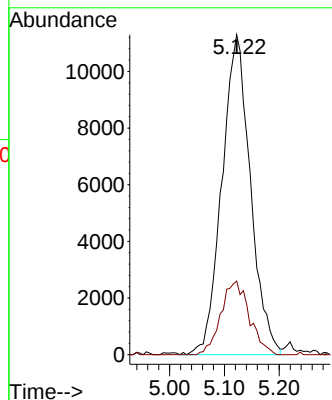
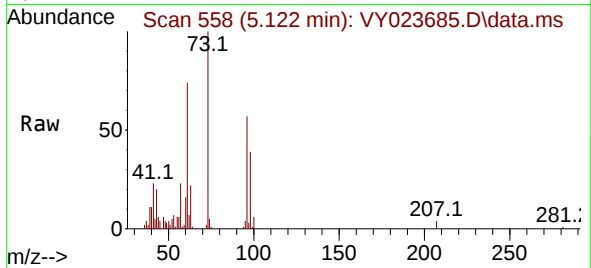




#19
Methyl tert-butyl Ether
Concen: 3.911 ug/l
RT: 5.122 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

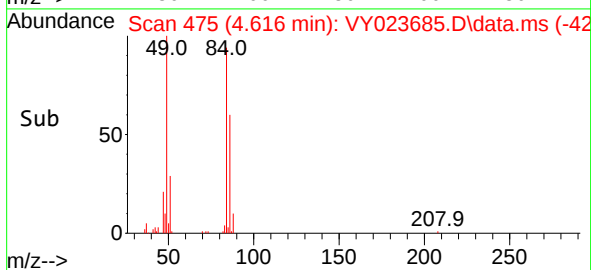
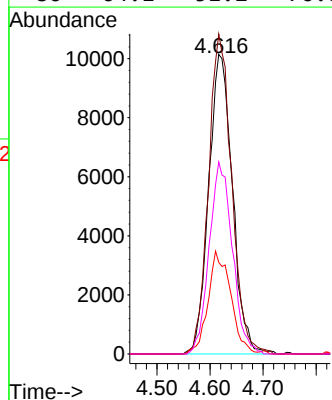
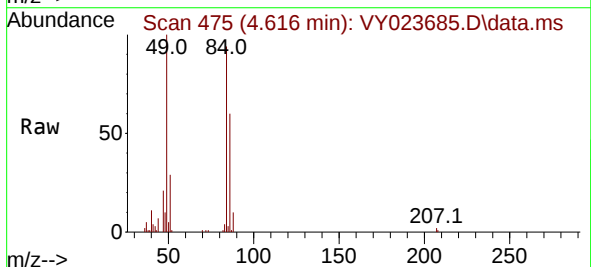
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

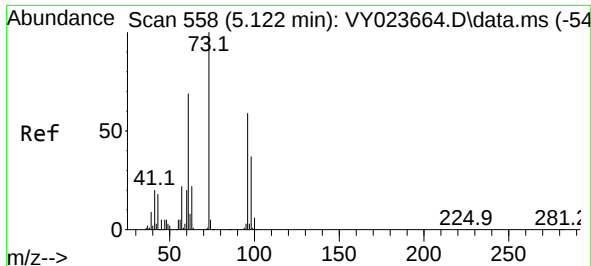
Tgt Ion: 73 Resp: 40761
Ion Ratio Lower Upper
73 100
57 23.0 16.1 24.1



#20
Methylene Chloride
Concen: 6.134 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 84 Resp: 31582
Ion Ratio Lower Upper
84 100
49 106.9 81.5 122.3
51 30.5 25.5 38.3
86 64.1 51.2 76.8

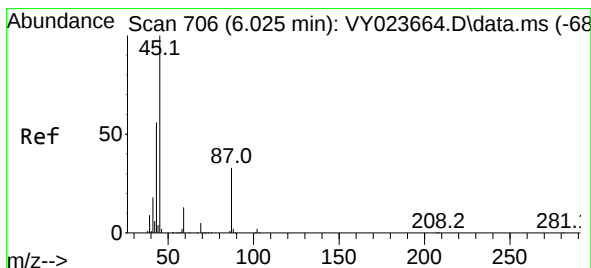
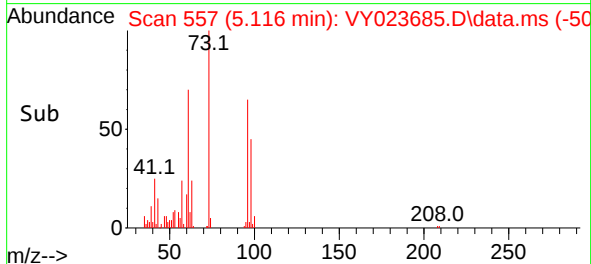
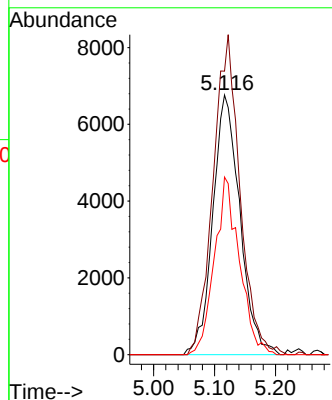
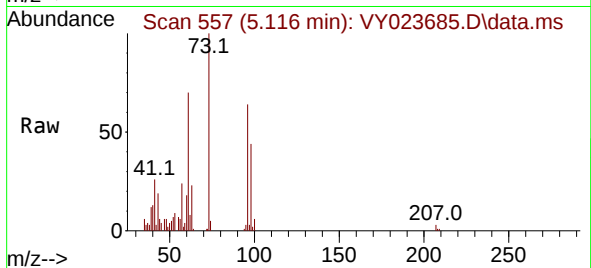




#21
trans-1,2-Dichloroethene
Concen: 4.123 ug/l
RT: 5.116 min Scan# 511
Delta R.T. -0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

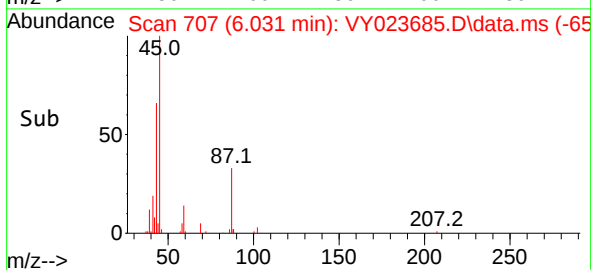
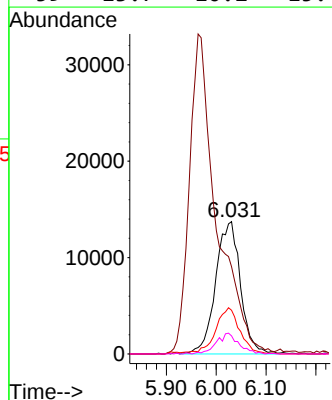
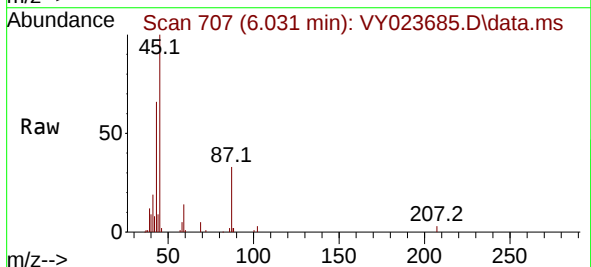
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

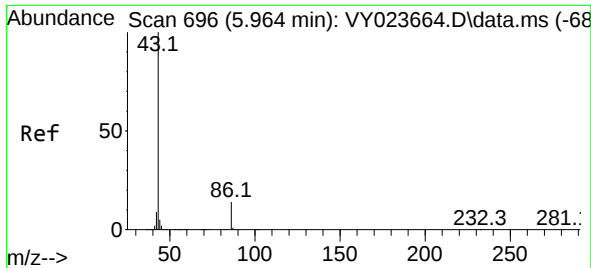
Tgt Ion:	96	Resp:	20893
Ion	Ratio	Lower	Upper
96	100		
61	109.2	93.3	139.9
98	68.4	50.6	75.8



#22
Diisopropyl ether
Concen: 3.905 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion:	45	Resp:	47599
Ion	Ratio	Lower	Upper
45	100		
43	62.1	44.7	67.1
87	33.0	27.2	40.8
59	13.7	10.2	15.4

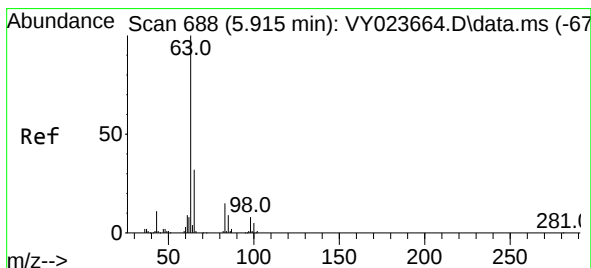
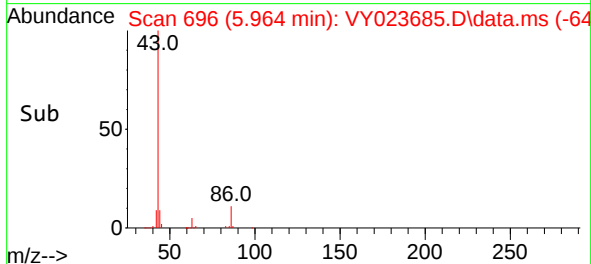
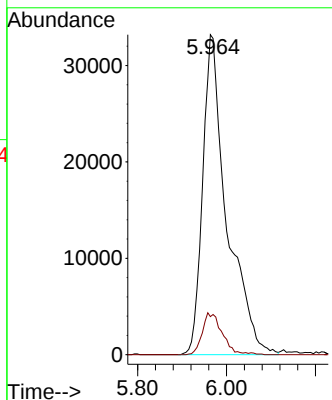
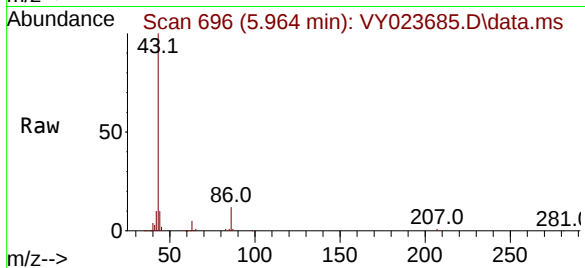




#23
 Vinyl Acetate
 Concen: 19.290 ug/l
 RT: 5.964 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VY023685.D
 Acq: 05 Nov 2025 12:15

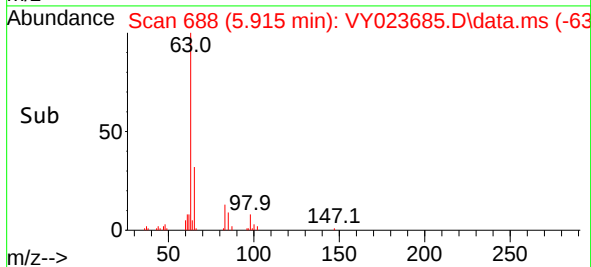
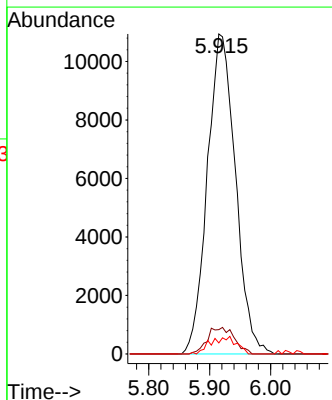
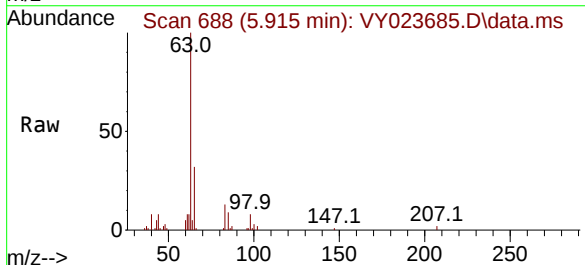
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2025

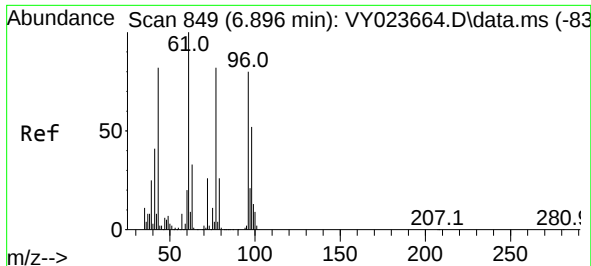
Tgt Ion: 43 Resp: 125483
 Ion Ratio Lower Upper
 43 100
 86 11.9 10.9 16.3



#24
 1,1-Dichloroethane
 Concen: 4.320 ug/l
 RT: 5.915 min Scan# 688
 Delta R.T. 0.000 min
 Lab File: VY023685.D
 Acq: 05 Nov 2025 12:15

Tgt Ion: 63 Resp: 35080
 Ion Ratio Lower Upper
 63 100
 98 7.6 4.0 11.9
 100 3.4 2.6 7.8





#25

2-Butanone

Concen: 21.716 ug/l

RT: 6.902 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY023685.D

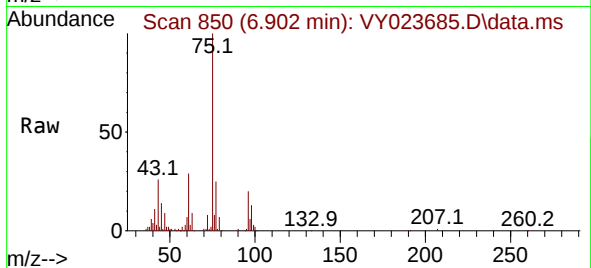
Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

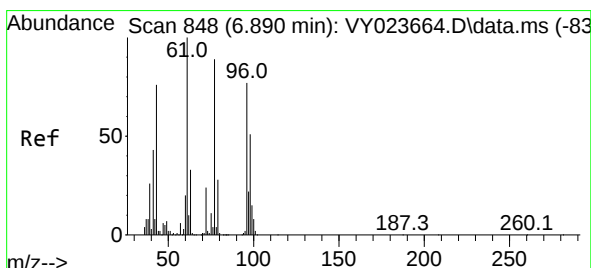
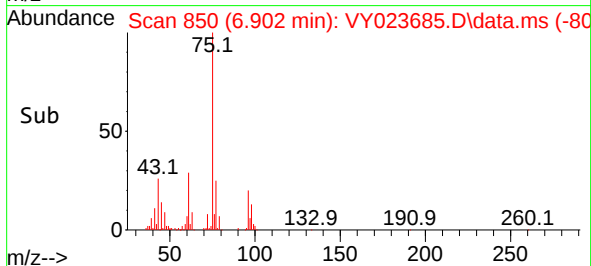
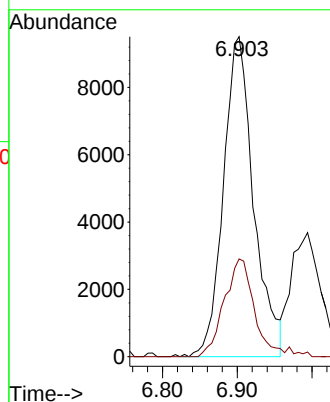


Tgt Ion: 43 Resp: 26780

Ion Ratio Lower Upper

43 100

72 30.5 25.7 38.5



#26

2,2-Dichloropropane

Concen: 4.871 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023685.D

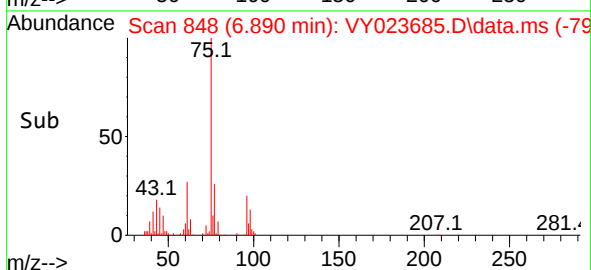
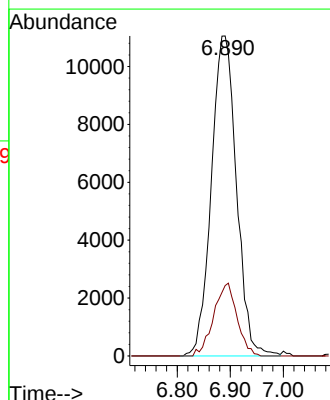
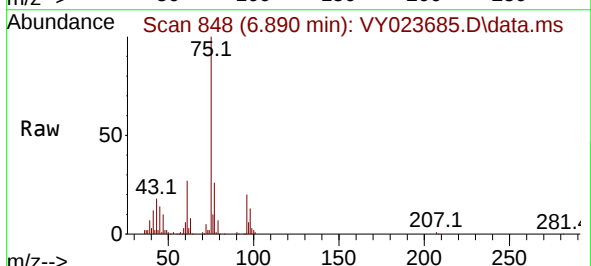
Acq: 05 Nov 2025 12:15

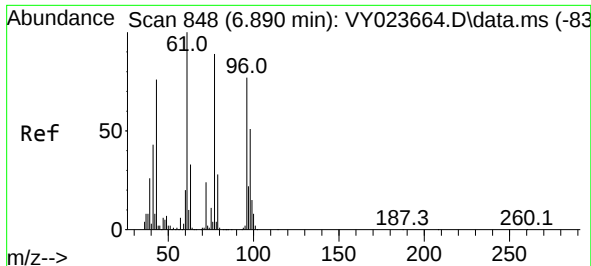
Tgt Ion: 77 Resp: 36384

Ion Ratio Lower Upper

77 100

97 21.1 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 4.138 ug/l

RT: 6.890 min Scan# 84

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

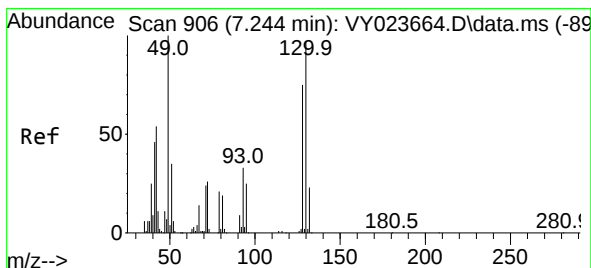
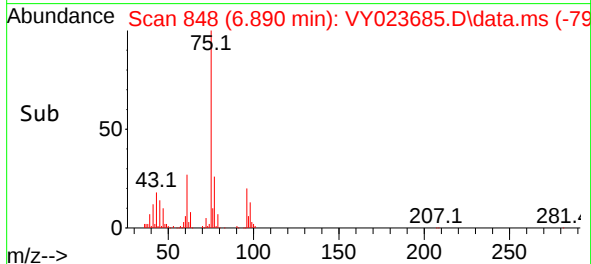
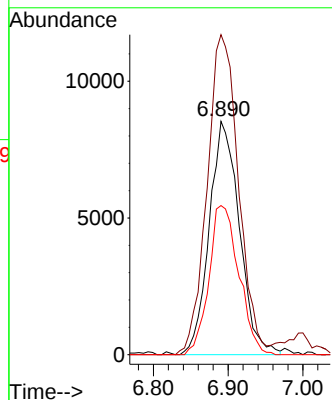
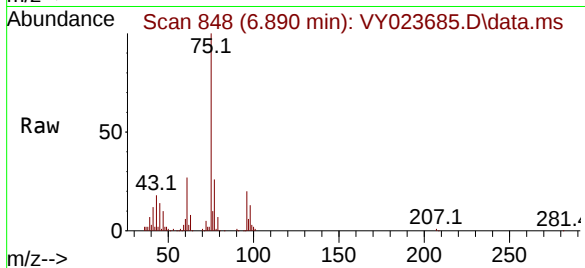
Tgt Ion: 96 Resp: 23949

Ion Ratio Lower Upper

96 100

61 142.3 0.0 255.0

98 63.3 0.0 129.8



#28

Bromochloromethane

Concen: 4.636 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

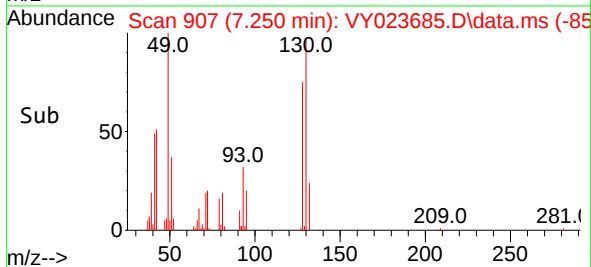
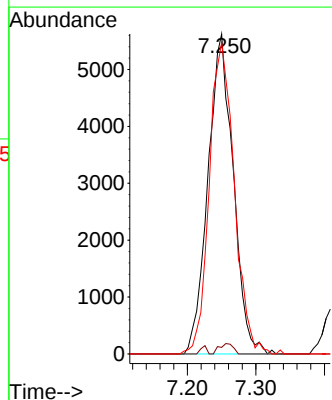
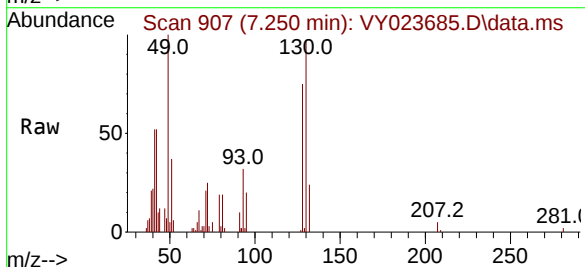
Tgt Ion: 49 Resp: 14416

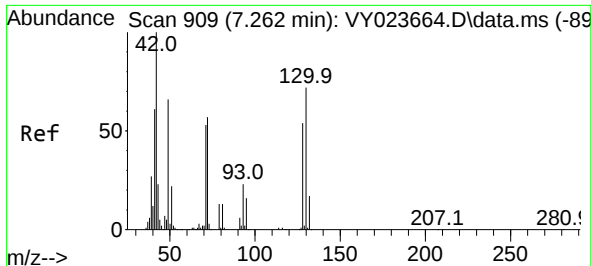
Ion Ratio Lower Upper

49 100

129 1.8 0.0 5.0

130 95.9 80.1 120.1





#29

Tetrahydrofuran

Concen: 20.334 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

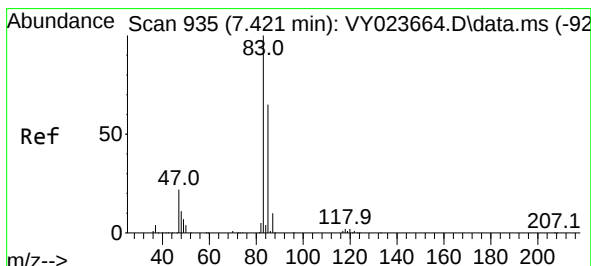
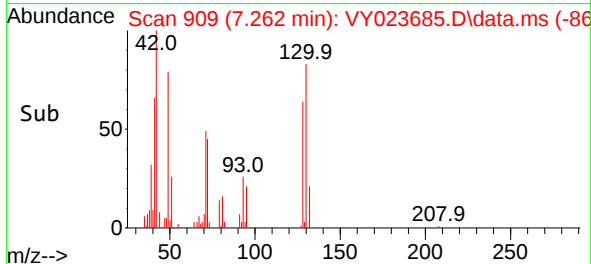
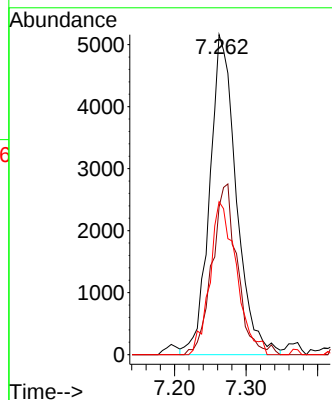
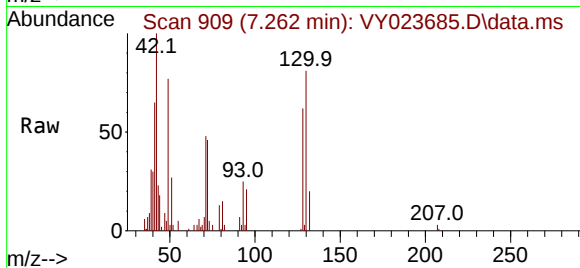
Tgt Ion: 42 Resp: 13355

Ion Ratio Lower Upper

42 100

72 50.5 43.4 65.2

71 47.5 40.7 61.1



#30

Chloroform

Concen: 4.406 ug/l

RT: 7.427 min Scan# 936

Delta R.T. 0.006 min

Lab File: VY023685.D

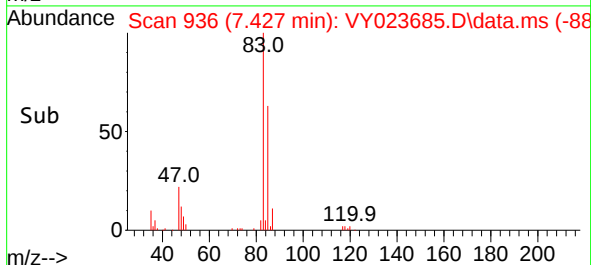
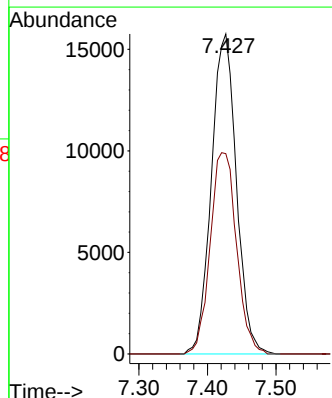
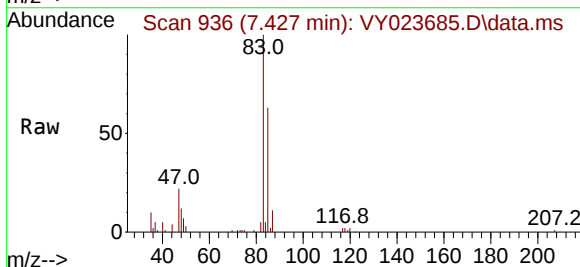
Acq: 05 Nov 2025 12:15

Tgt Ion: 83 Resp: 39922

Ion Ratio Lower Upper

83 100

85 62.6 52.1 78.1

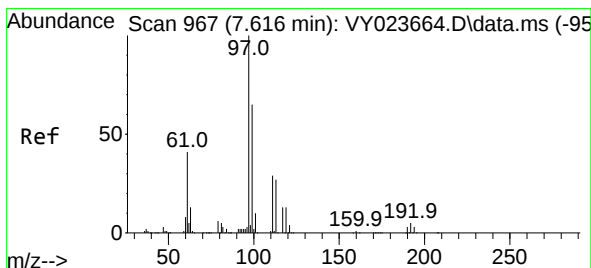
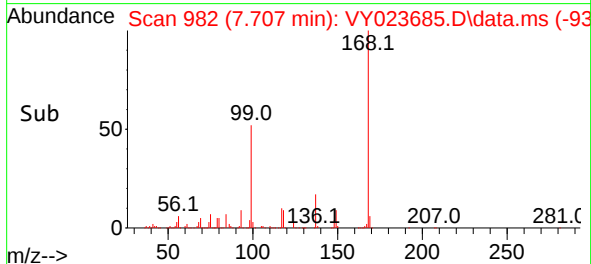
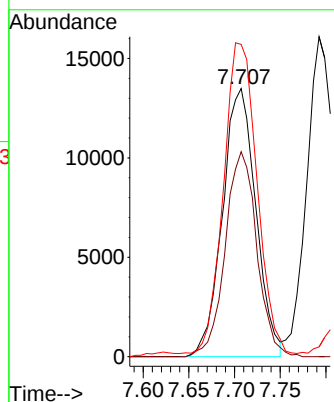
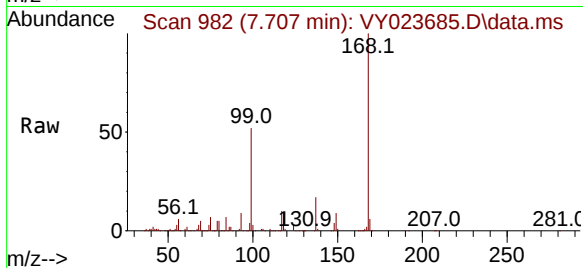




#31
Cyclohexane
Concen: 4.845 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

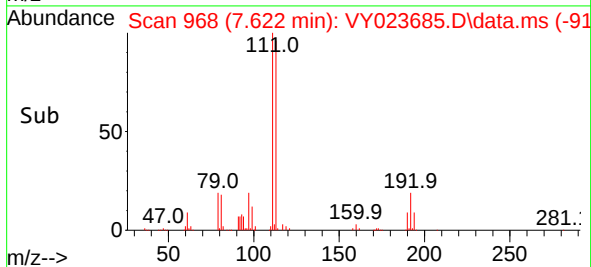
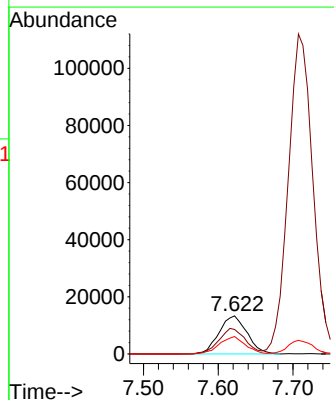
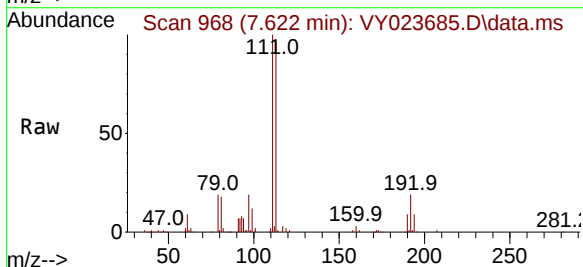
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

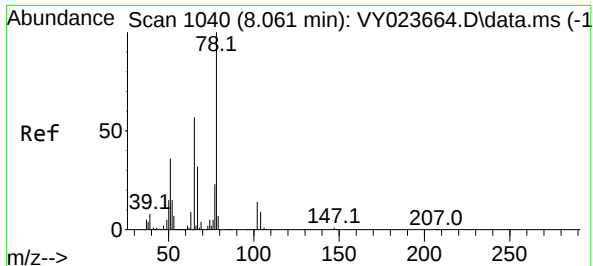
Tgt Ion: 56 Resp: 34263
Ion Ratio Lower Upper
56 100
69 76.5 30.5 45.7#
84 115.3 79.0 118.4



#32
1,1,1-Trichloroethane
Concen: 4.280 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 97 Resp: 34656
Ion Ratio Lower Upper
97 100
99 63.6 51.5 77.3
61 42.5 32.5 48.7

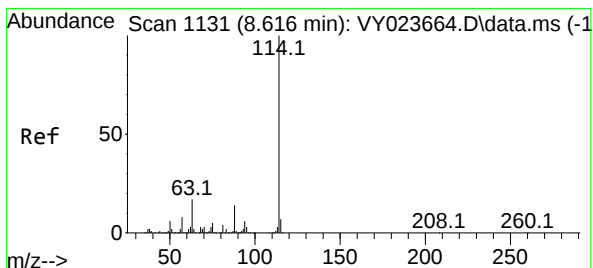
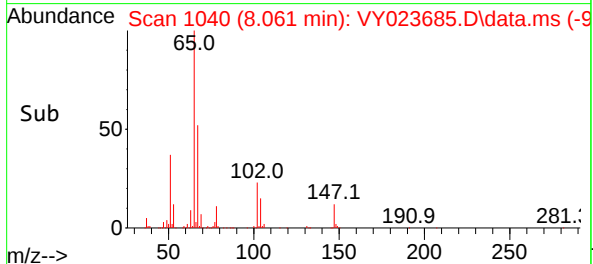
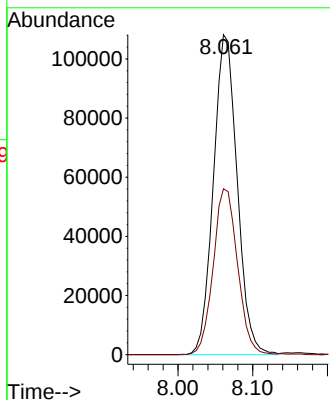
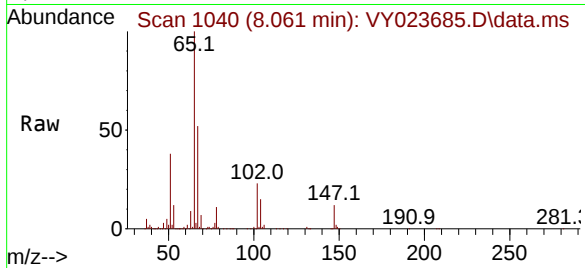




#33
1,2-Dichloroethane-d4
Concen: 55.916 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

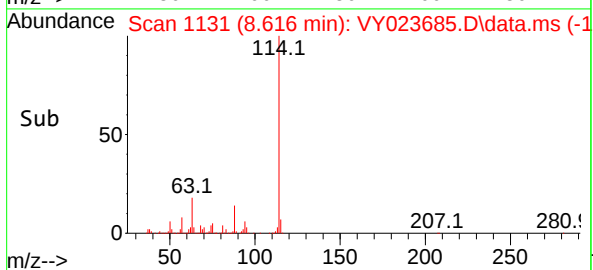
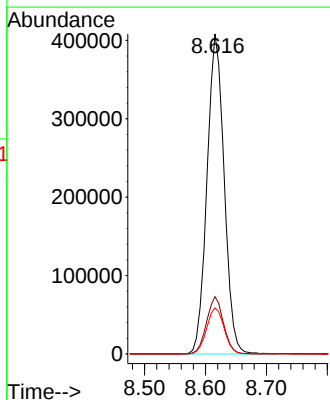
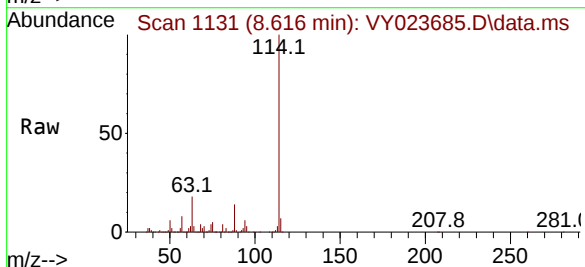
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

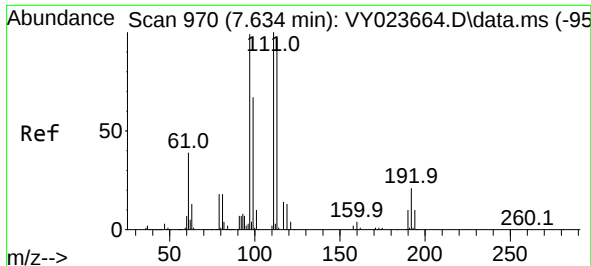
Tgt Ion: 65 Resp: 239936
Ion Ratio Lower Upper
65 100
67 53.2 0.0 107.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 114 Resp: 797580
Ion Ratio Lower Upper
114 100
63 17.9 0.0 33.8
88 14.4 0.0 29.0

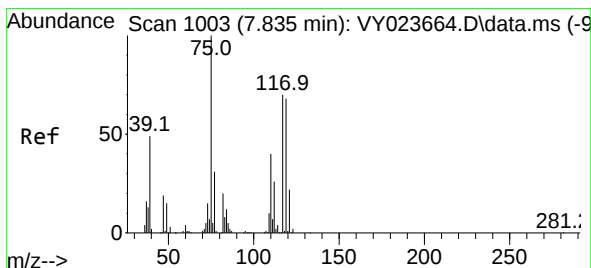
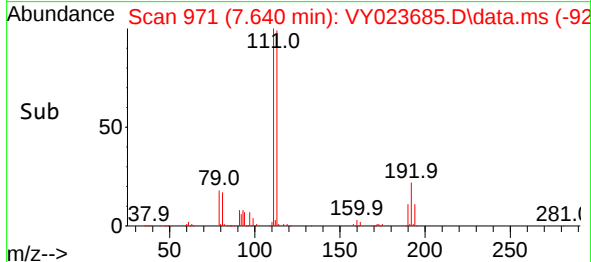
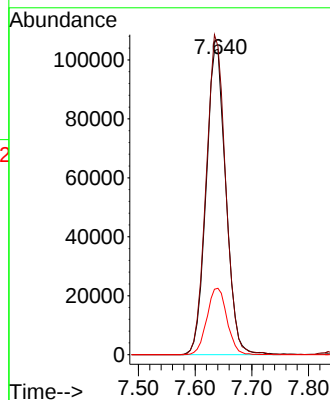
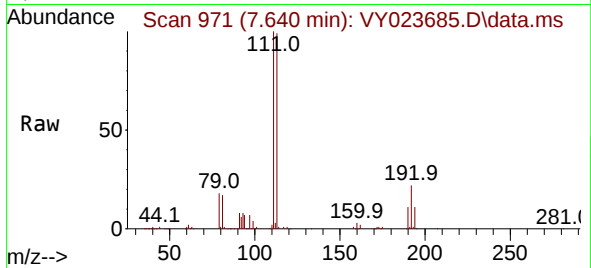




#35
Dibromofluoromethane
Concen: 50.674 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

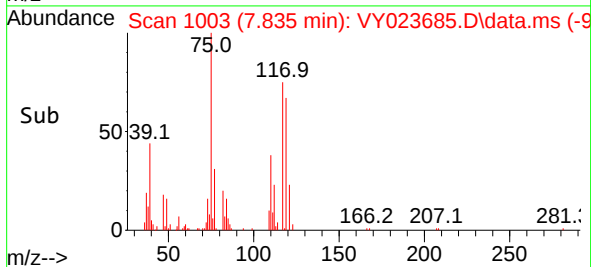
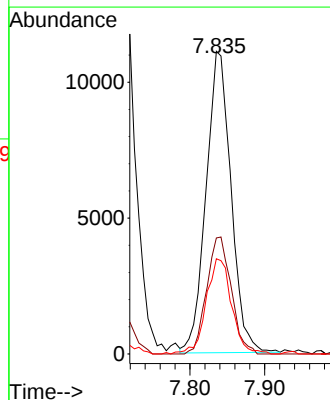
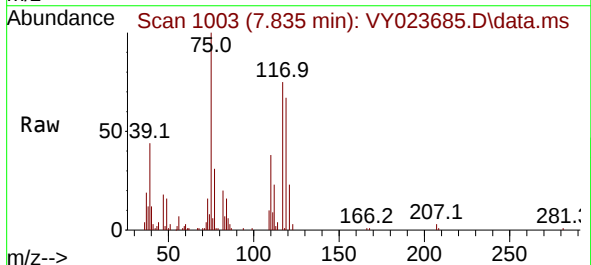
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

Tgt Ion:113 Resp: 252577
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.4
192 21.9 17.3 25.9



#36
1,1-Dichloropropene
Concen: 3.865 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 75 Resp: 25745
Ion Ratio Lower Upper
75 100
110 38.1 19.7 59.0
77 32.3 25.2 37.8

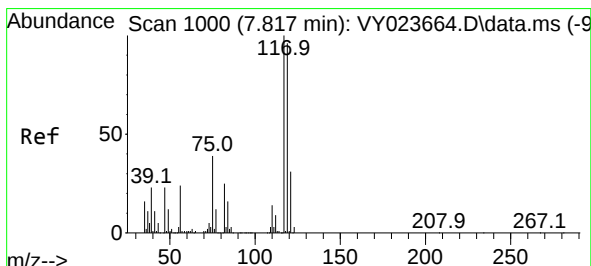
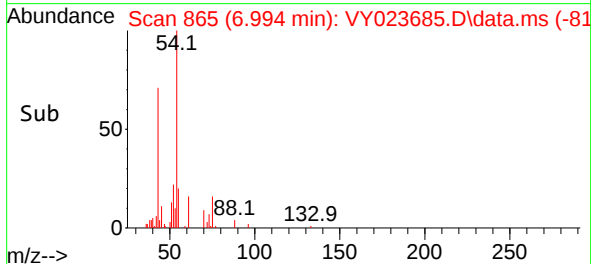
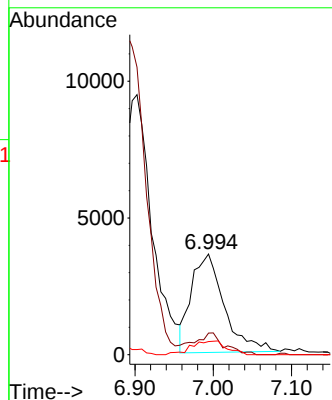
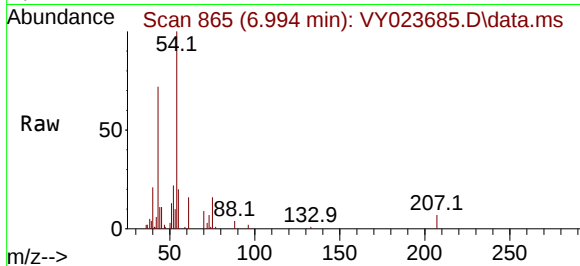




#37
Ethyl Acetate
Concen: 4.089 ug/l
RT: 6.994 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

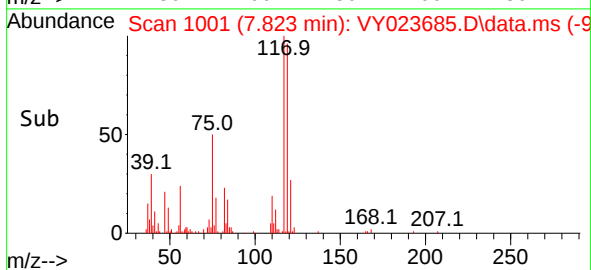
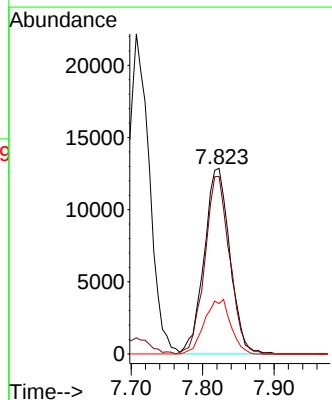
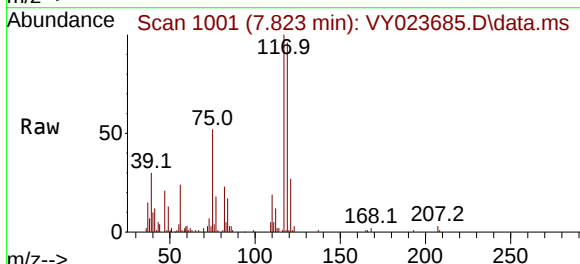
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

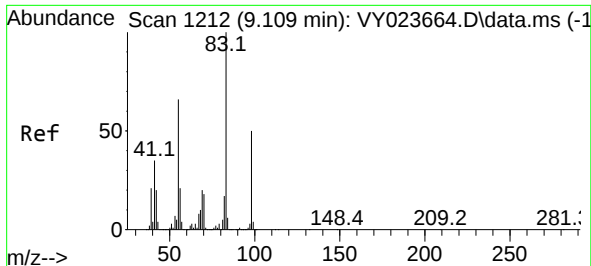
Tgt Ion: 43 Resp: 10542
Ion Ratio Lower Upper
43 100
61 20.2 12.4 18.6#
70 14.8 9.8 14.8#



#38
Carbon Tetrachloride
Concen: 4.094 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 117 Resp: 32125
Ion Ratio Lower Upper
117 100
119 95.7 76.3 114.5
121 27.2 24.8 37.2





#39

Methylcyclohexane

Concen: 3.498 ug/l

RT: 9.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

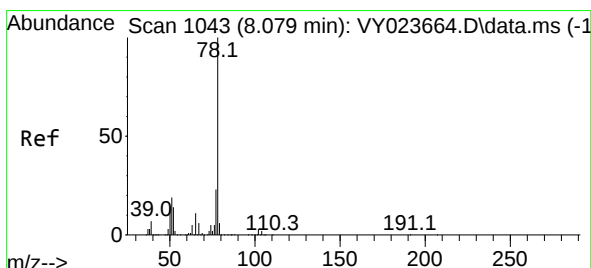
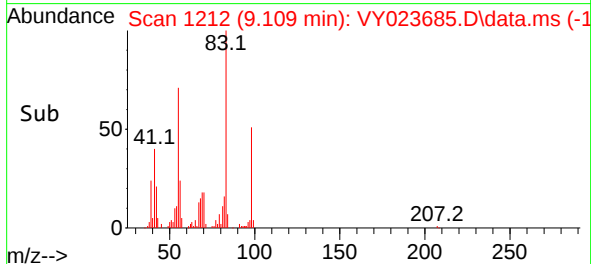
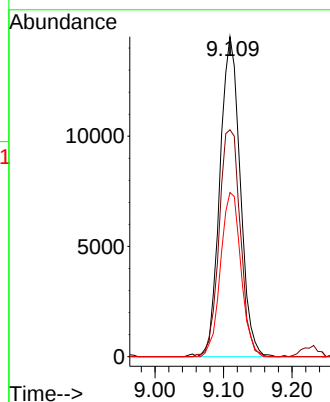
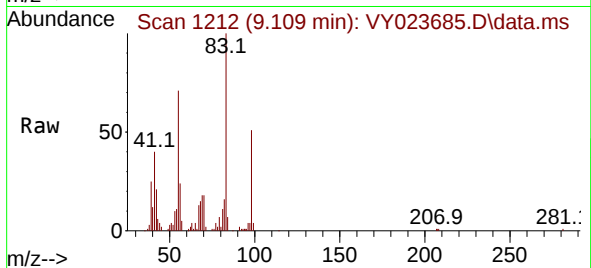
Tgt Ion: 83 Resp: 29773

Ion Ratio Lower Upper

83 100

55 70.9 52.6 78.8

98 51.3 39.7 59.5



#40

Benzene

Concen: 4.067 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023685.D

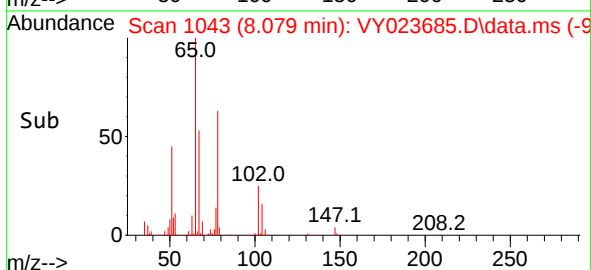
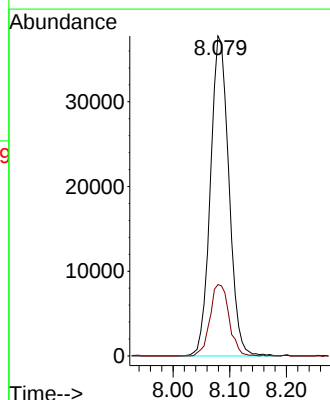
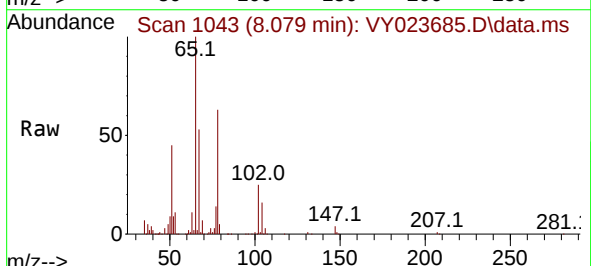
Acq: 05 Nov 2025 12:15

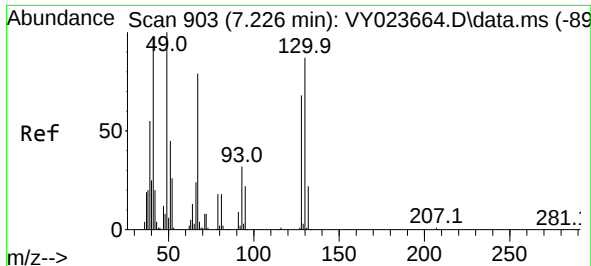
Tgt Ion: 78 Resp: 85374

Ion Ratio Lower Upper

78 100

77 22.3 18.8 28.2

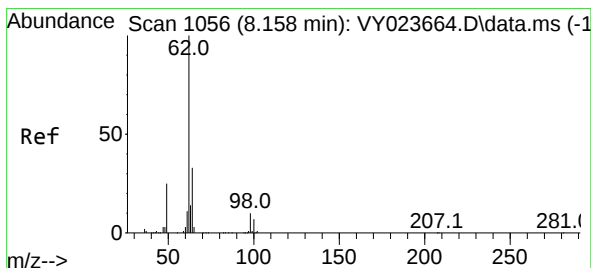
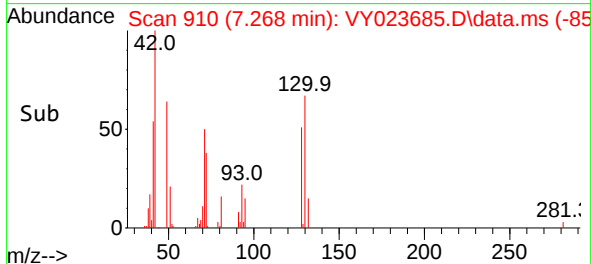
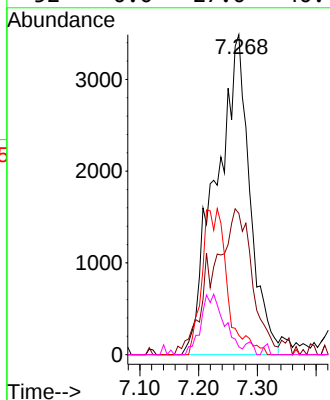
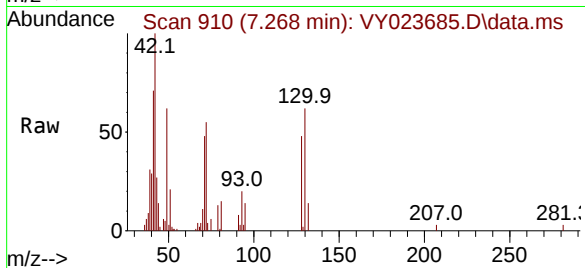




#41
Methacrylonitrile
Concen: 9.931 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.043 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

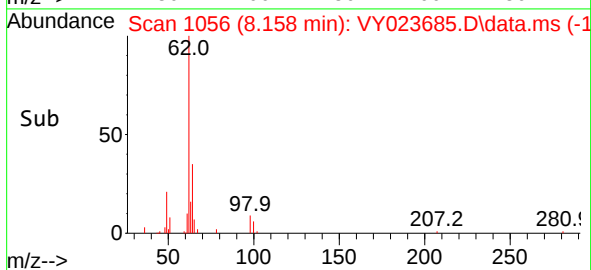
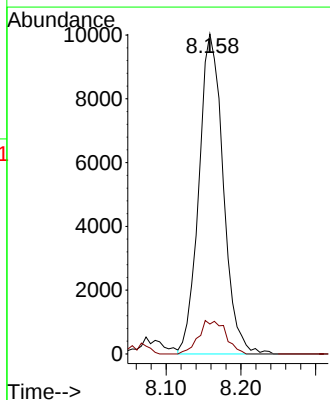
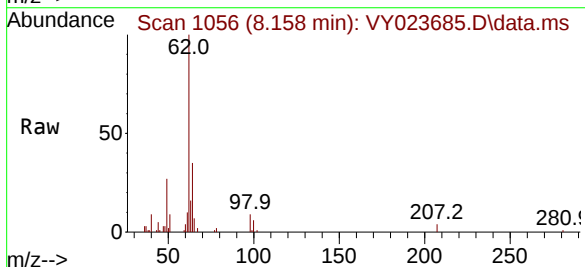
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

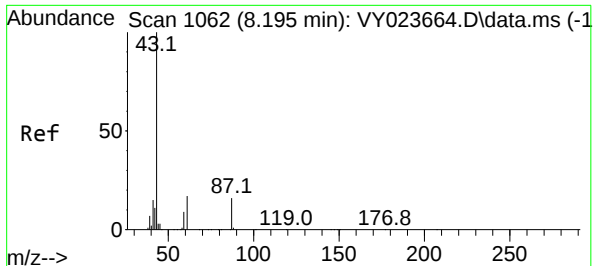
Tgt Ion:	41	Resp:	13977
Ion	Ratio	Lower	Upper
41	100		
39	53.4	38.6	57.8
67	0.0	71.3	106.9#
52	0.0	27.0	40.4#



#42
1,2-Dichloroethane
Concen: 4.276 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion:	62	Resp:	22711
Ion	Ratio	Lower	Upper
62	100		
98	11.6	0.0	21.0





#43

Isopropyl Acetate

Concen: 3.969 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

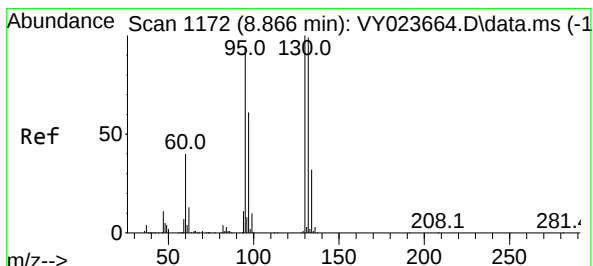
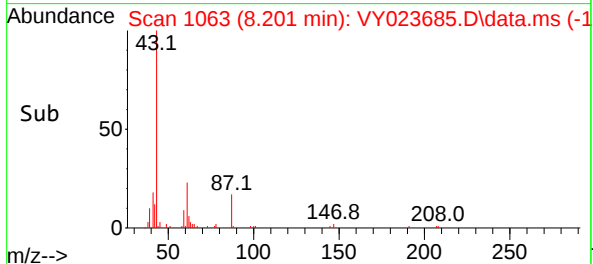
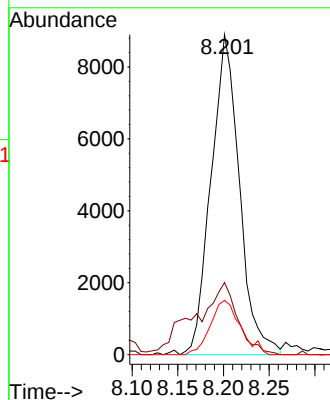
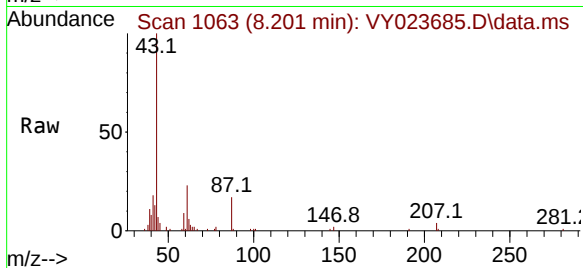
Tgt Ion: 43 Resp: 19227

Ion Ratio Lower Upper

43 100

61 34.2 18.2 27.2#

87 18.0 13.3 19.9



#44

Trichloroethene

Concen: 4.127 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023685.D

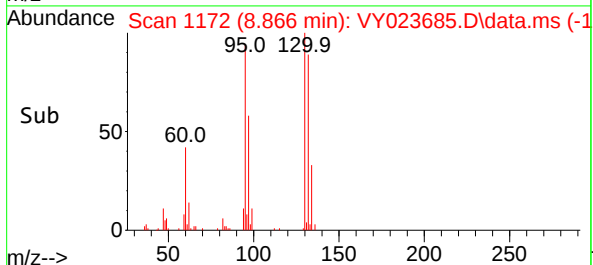
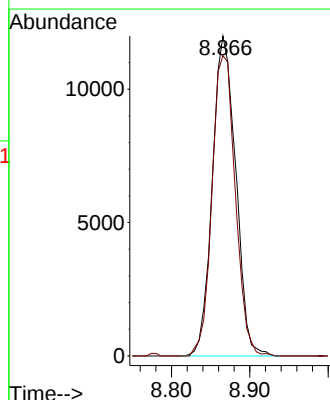
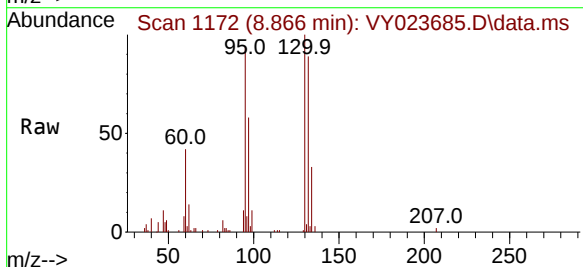
Acq: 05 Nov 2025 12:15

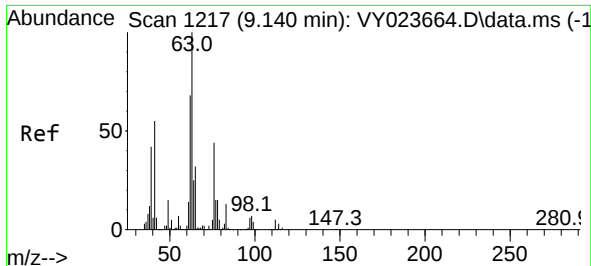
Tgt Ion:130 Resp: 24884

Ion Ratio Lower Upper

130 100

95 93.8 0.0 187.0





#45

1,2-Dichloropropane

Concen: 4.189 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

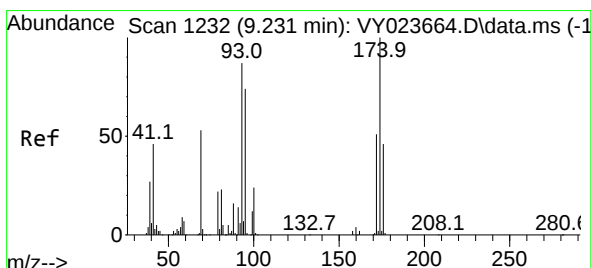
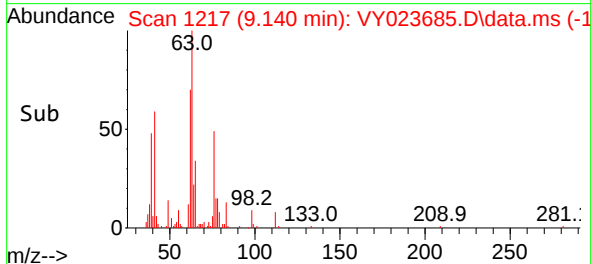
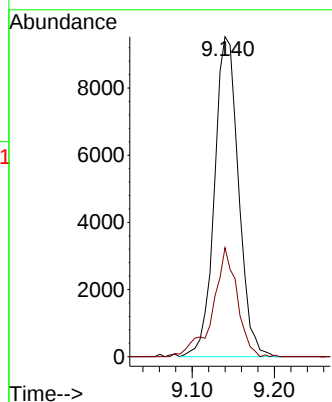
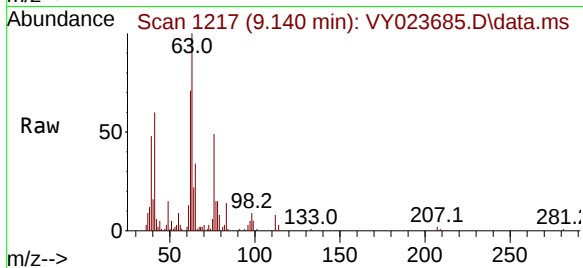
MDL-SOIL-03-QT4-2025

Tgt Ion: 63 Resp: 19407

Ion Ratio Lower Upper

63 100

65 34.1 25.6 38.4



#46

Dibromomethane

Concen: 4.159 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

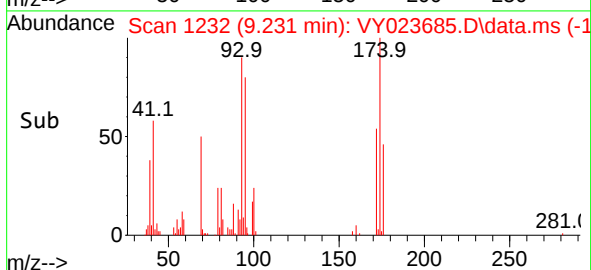
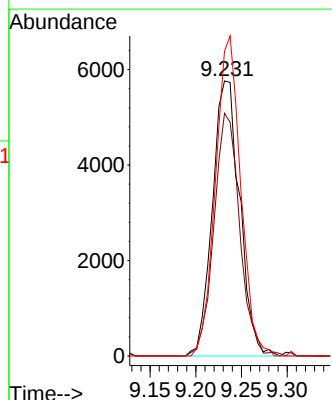
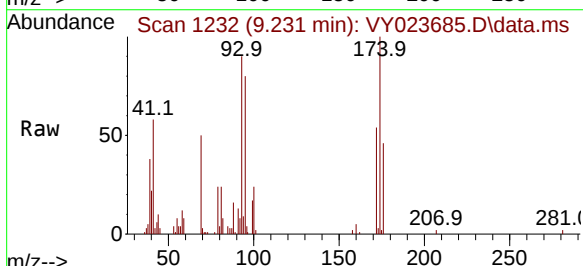
Tgt Ion: 93 Resp: 11941

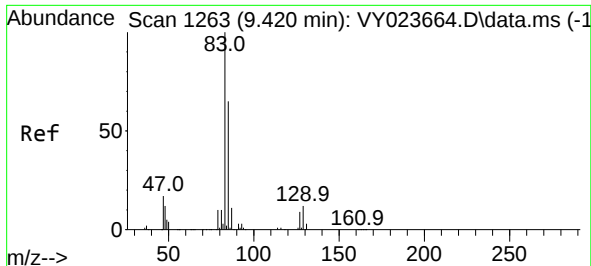
Ion Ratio Lower Upper

93 100

95 83.5 67.4 101.2

174 107.6 89.4 134.0





#47

Bromodichloromethane

Concen: 4.073 ug/l

RT: 9.426 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

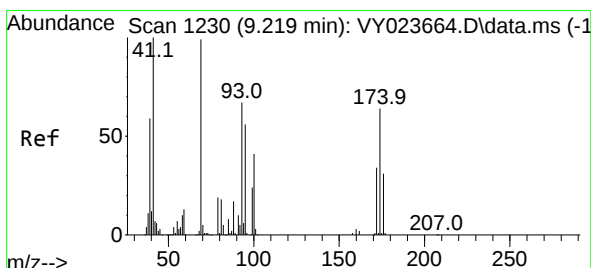
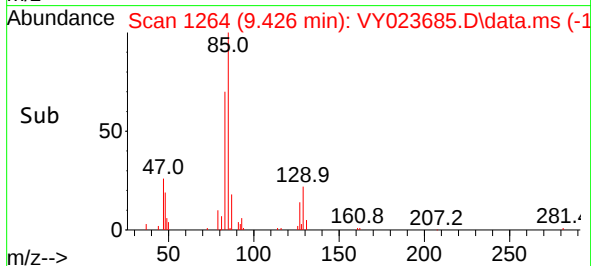
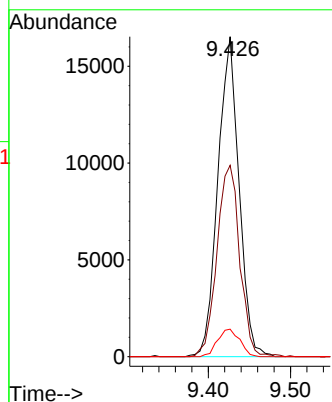
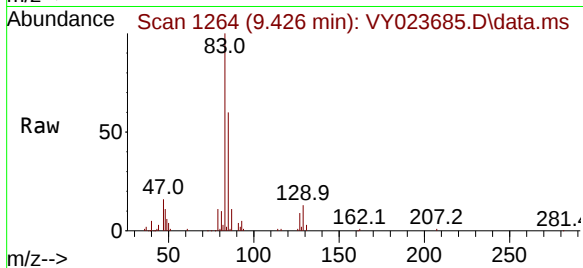
Tgt Ion: 83 Resp: 29482

Ion Ratio Lower Upper

83 100

85 59.8 52.1 78.1

127 8.6 7.5 11.3



#48

Methyl methacrylate

Concen: 3.680 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

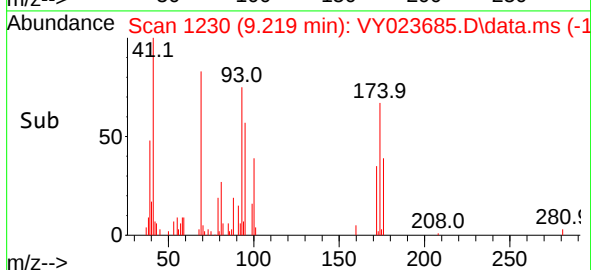
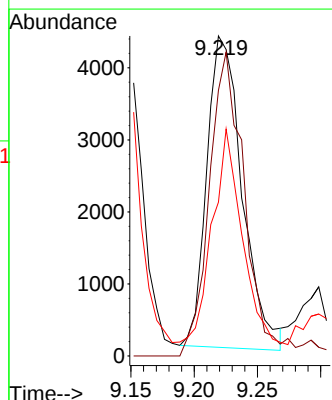
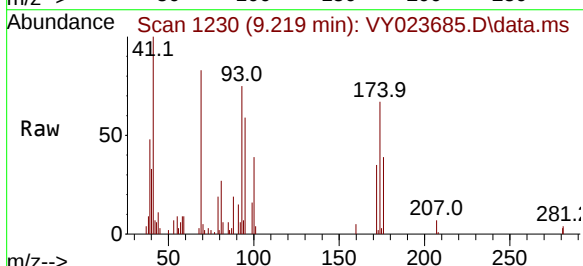
Tgt Ion: 41 Resp: 8422

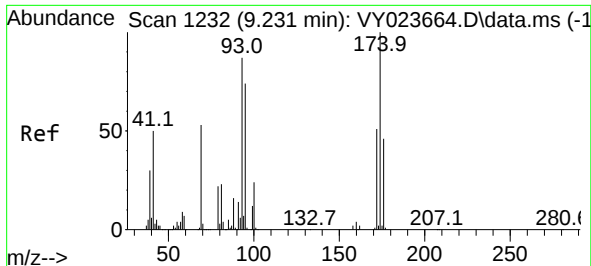
Ion Ratio Lower Upper

41 100

69 96.5 80.2 120.2

39 64.1 47.4 71.0





#49

1,4-Dioxane

Concen: 87.031 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

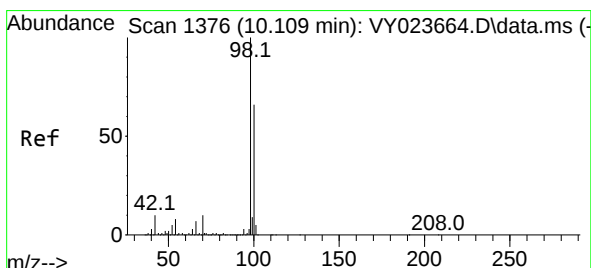
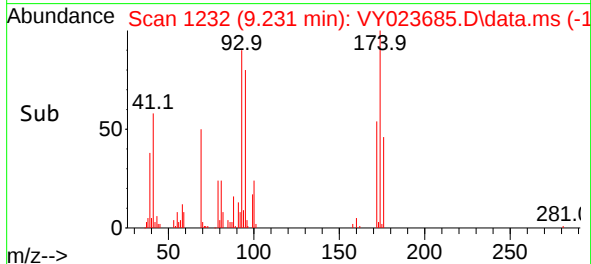
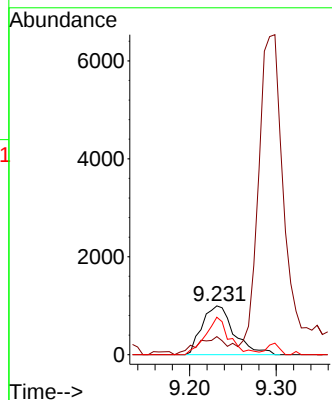
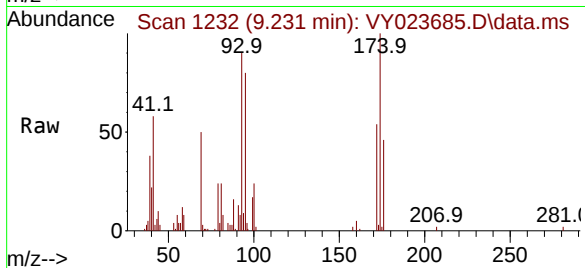
Tgt Ion: 88 Resp: 2557

Ion Ratio Lower Upper

88 100

43 36.6 22.0 33.0#

58 58.2 47.8 71.8



#50

Toluene-d8

Concen: 50.211 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023685.D

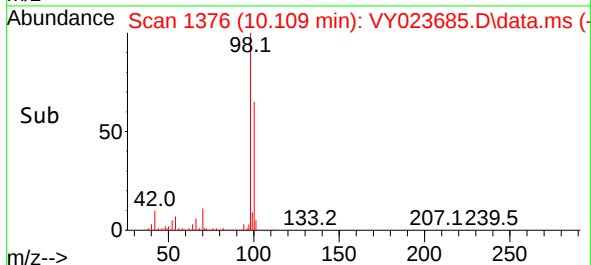
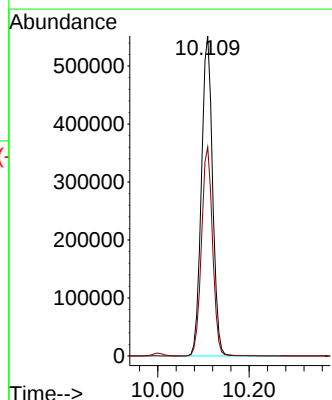
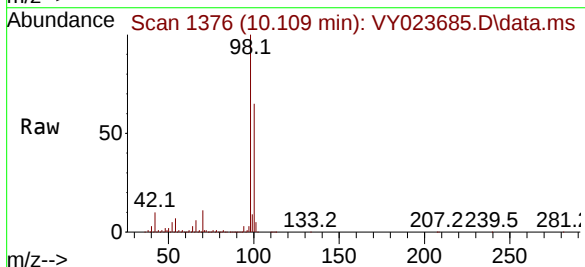
Acq: 05 Nov 2025 12:15

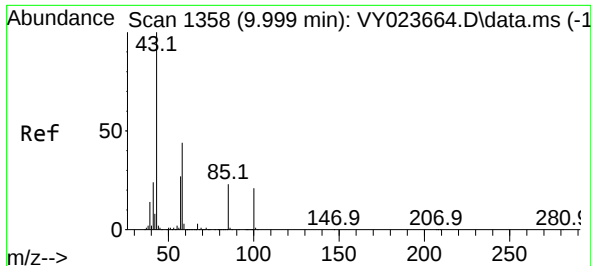
Tgt Ion: 98 Resp: 932274

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 17.849 ug/l

RT: 9.999 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

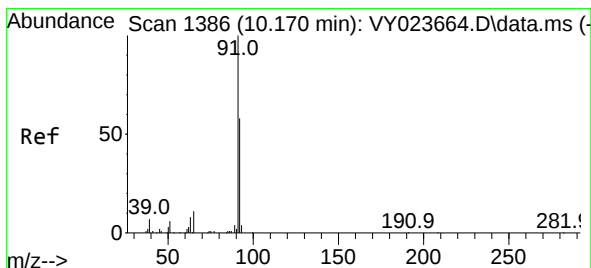
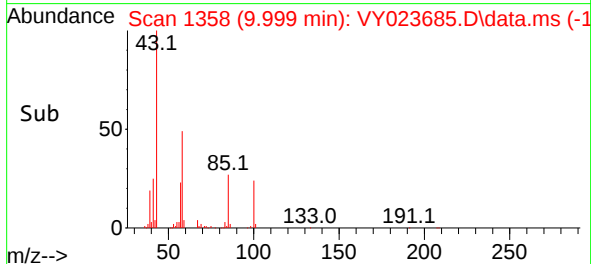
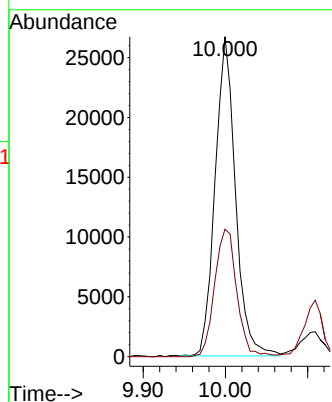
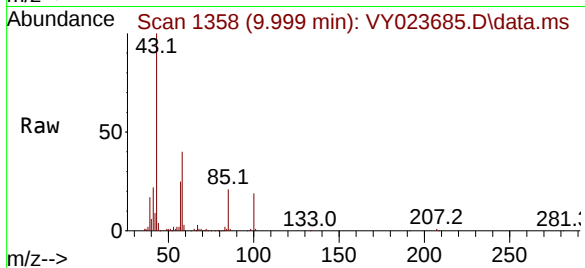
MDL-SOIL-03-QT4-2025

Tgt Ion: 43 Resp: 45984

Ion Ratio Lower Upper

43 100

58 43.3 34.8 52.2



#52

Toluene

Concen: 4.011 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. 0.000 min

Lab File: VY023685.D

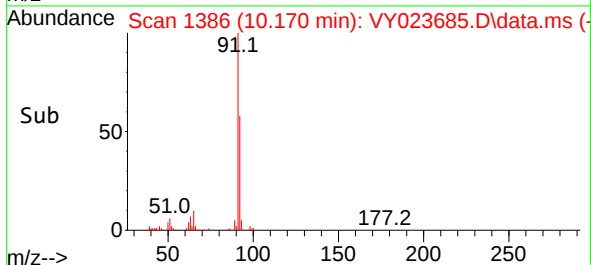
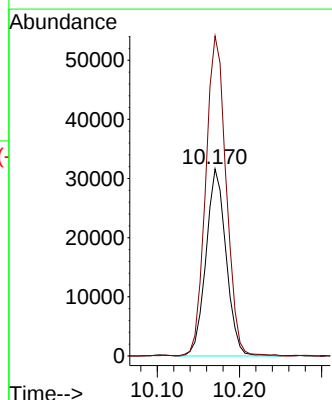
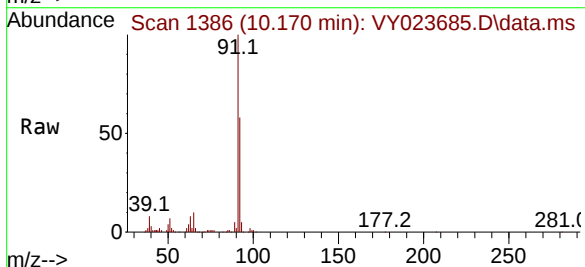
Acq: 05 Nov 2025 12:15

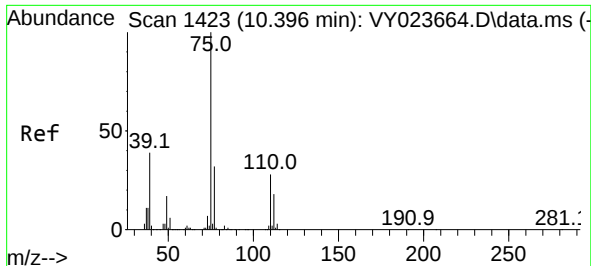
Tgt Ion: 92 Resp: 53758

Ion Ratio Lower Upper

92 100

91 174.3 137.8 206.8

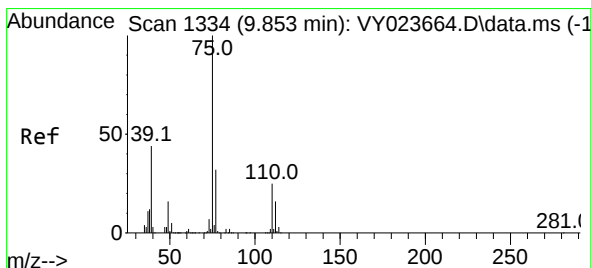
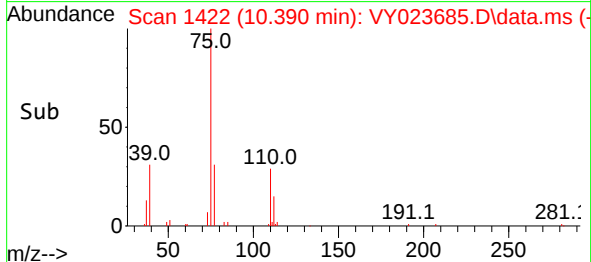
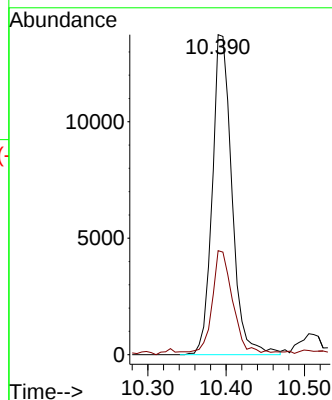
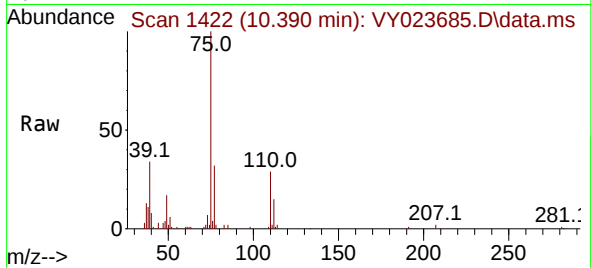




#53
t-1,3-Dichloropropene
Concen: 3.911 ug/l
RT: 10.390 min Scan# 1422
Delta R.T. -0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

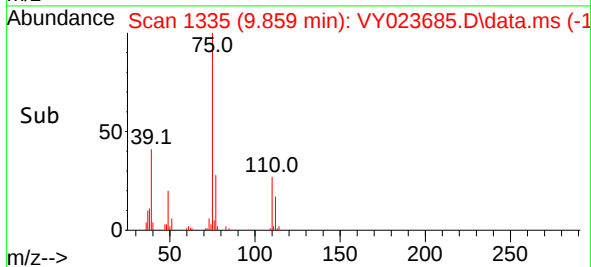
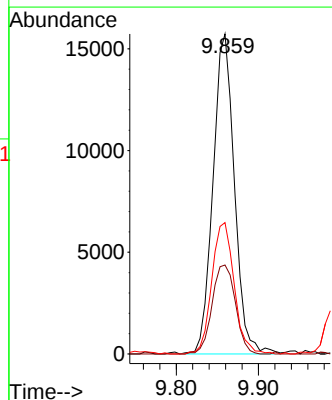
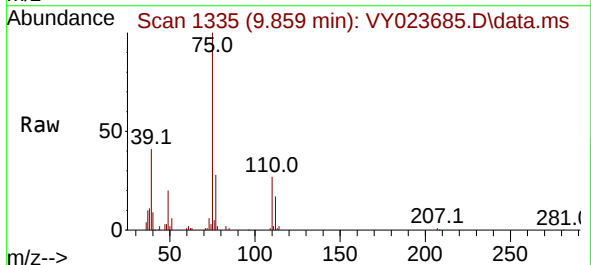
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT4-2025

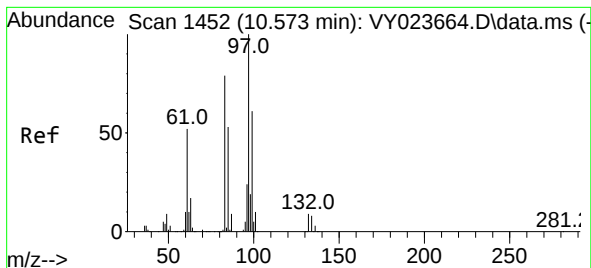
Tgt Ion: 75 Resp: 23954
Ion Ratio Lower Upper
75 100
77 31.6 25.6 38.4



#54
cis-1,3-Dichloropropene
Concen: 3.882 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 75 Resp: 28485
Ion Ratio Lower Upper
75 100
77 27.8 25.7 38.5
39 41.0 34.9 52.3





#55

1,1,2-Trichloroethane

Concen: 4.302 ug/l

RT: 10.573 min Scan# 1452

Delta R.T. 0.000 min

Lab File: VY023685.D

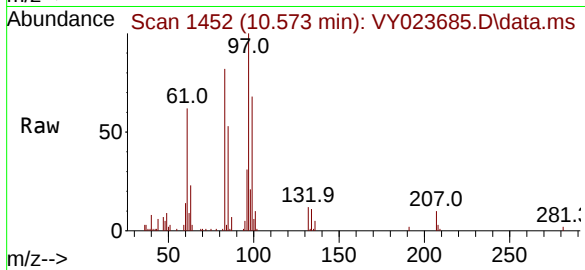
Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025



Tgt Ion: 97 Resp: 16505

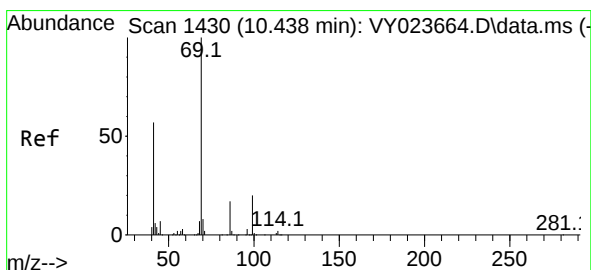
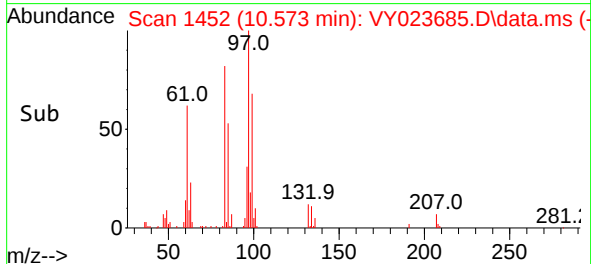
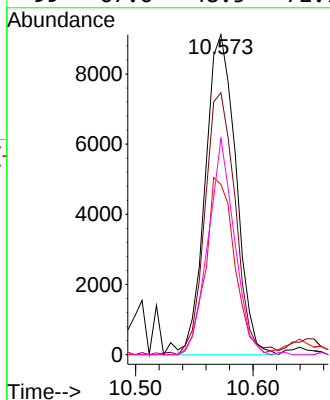
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

97	100		
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83	81.9	63.3	94.9
----	------	------	------

85	53.2	42.4	63.6
----	------	------	------

99	67.6	48.5	72.7
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#56

Ethyl methacrylate

Concen: 3.479 ug/l

RT: 10.438 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

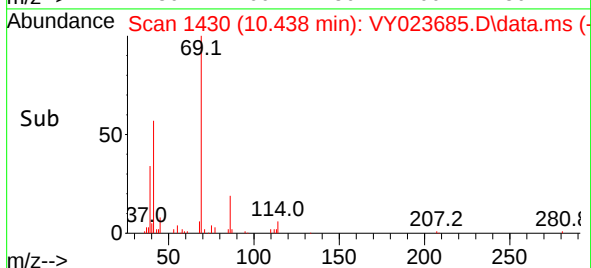
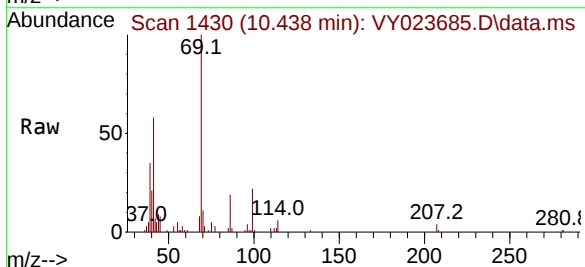
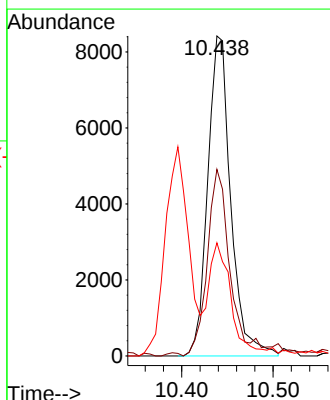
Tgt Ion: 69 Resp: 14708

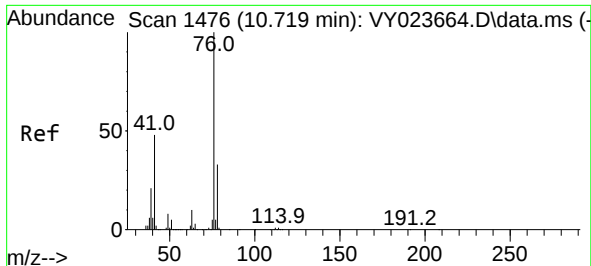
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

69	100		
----	-----	--	--

41	57.8	45.0	67.4
----	------	------	------

39	36.3	25.1	37.7
----	------	------	------





#57

1,3-Dichloropropane

Concen: 4.173 ug/l

RT: 10.719 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

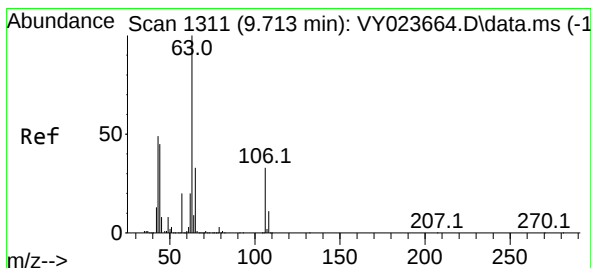
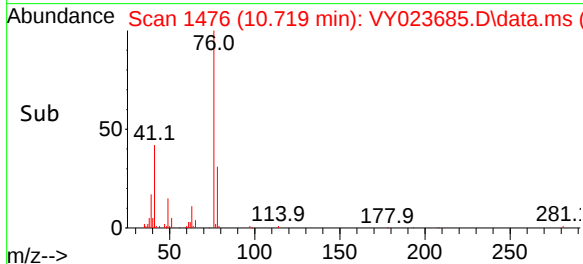
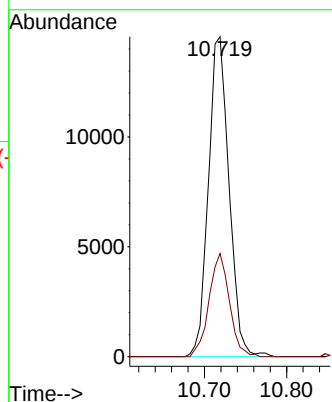
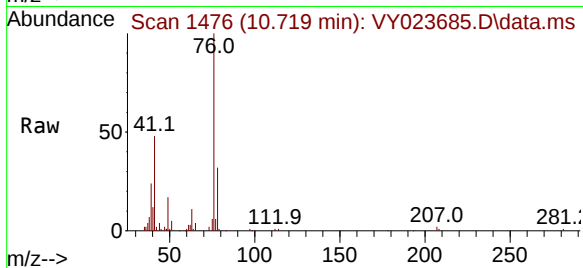
MDL-SOIL-03-QT4-2025

Tgt Ion: 76 Resp: 25397

Ion Ratio Lower Upper

76 100

78 31.9 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 14.922 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VY023685.D

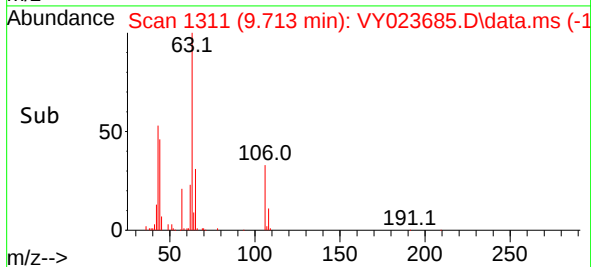
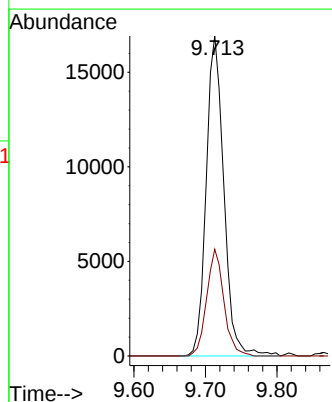
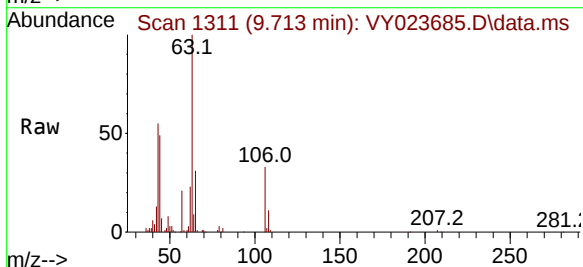
Acq: 05 Nov 2025 12:15

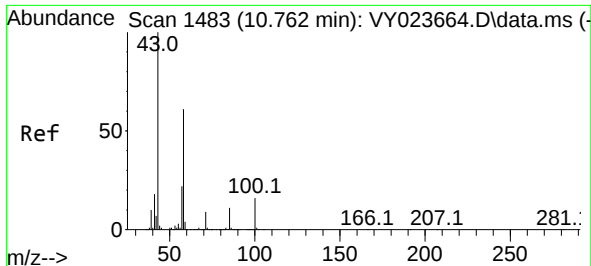
Tgt Ion: 63 Resp: 28945

Ion Ratio Lower Upper

63 100

106 32.6 26.2 39.2

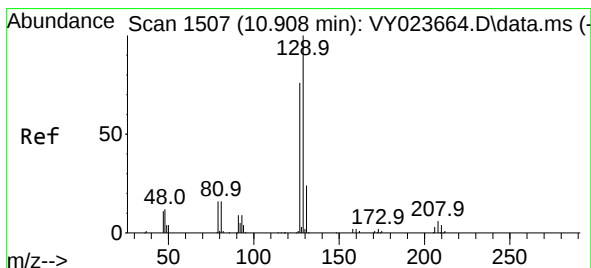
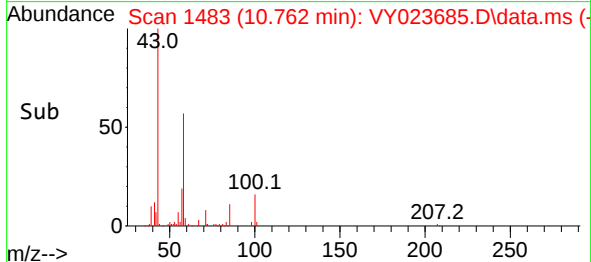
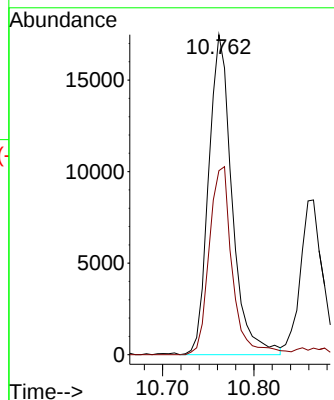
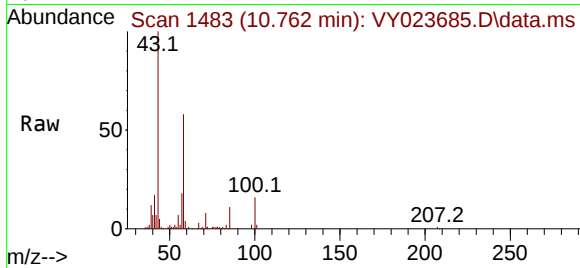




#59
2-Hexanone
Concen: 16.599 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

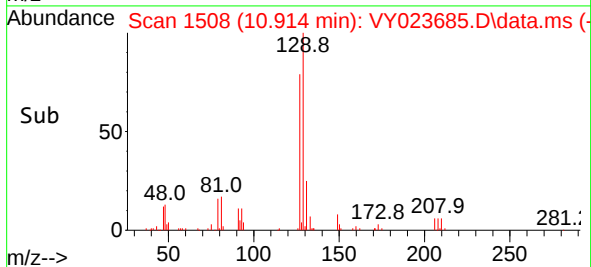
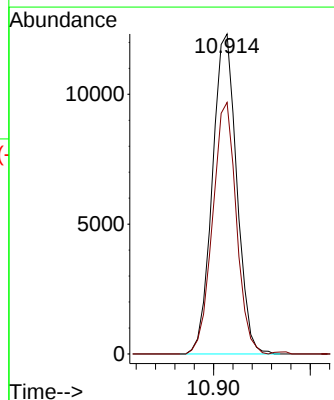
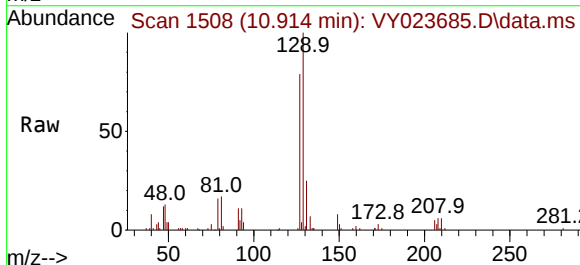
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

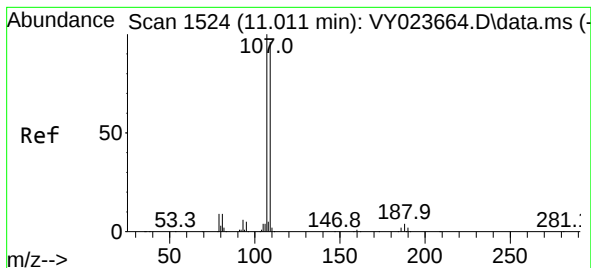
Tgt Ion: 43 Resp: 31200
Ion Ratio Lower Upper
43 100
58 57.9 30.2 90.6



#60
Dibromochloromethane
Concen: 4.084 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 129 Resp: 21529
Ion Ratio Lower Upper
129 100
127 76.5 38.4 115.2

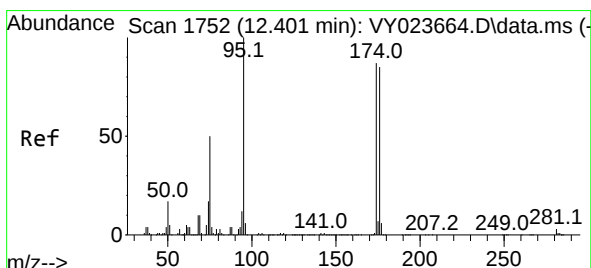
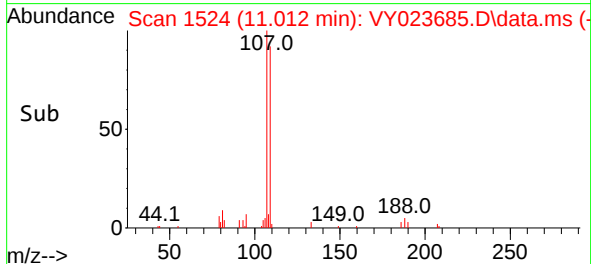
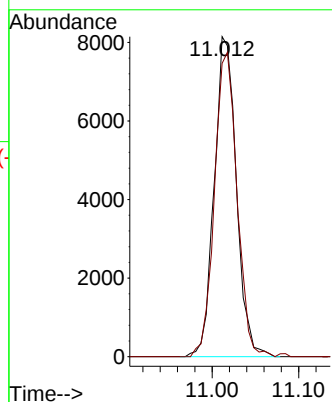
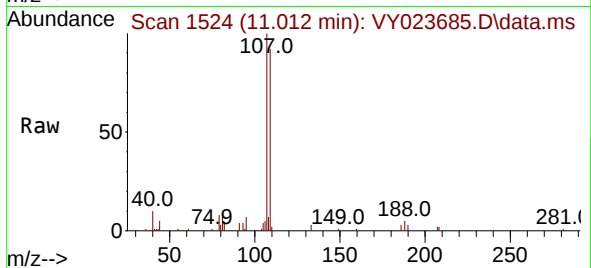




#61
1,2-Dibromoethane
Concen: 4.013 ug/l
RT: 11.012 min Scan# 1524
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

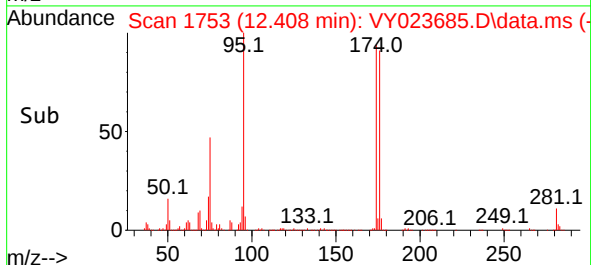
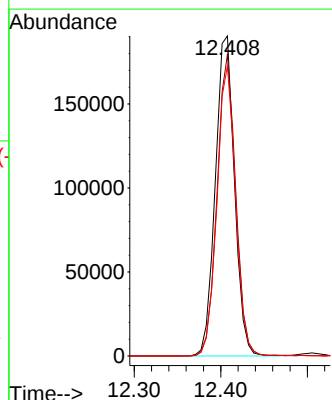
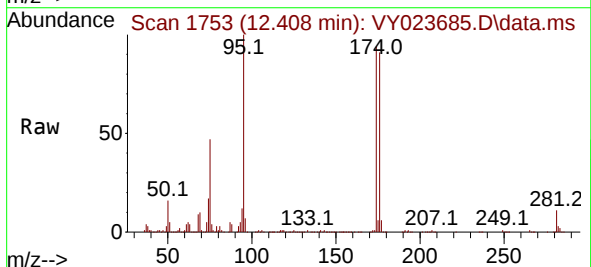
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

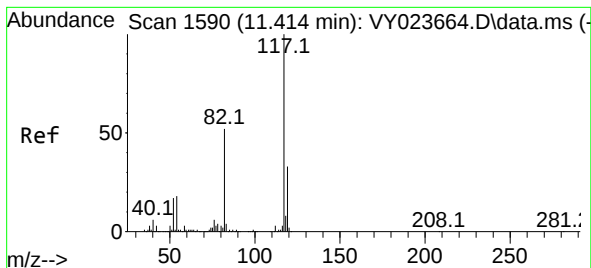
Tgt Ion:107 Resp: 14449
Ion Ratio Lower Upper
107 100
109 97.0 76.2 114.4



#62
4-Bromofluorobenzene
Concen: 48.742 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 95 Resp: 292668
Ion Ratio Lower Upper
95 100
174 91.4 0.0 184.8
176 88.2 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

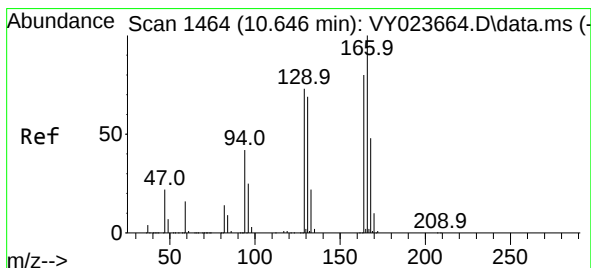
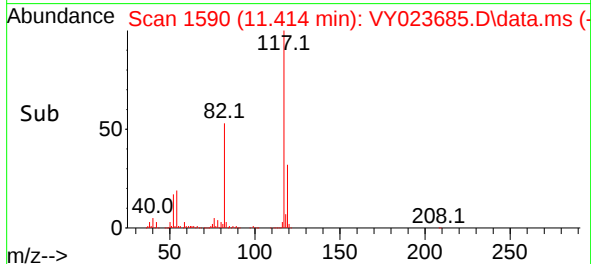
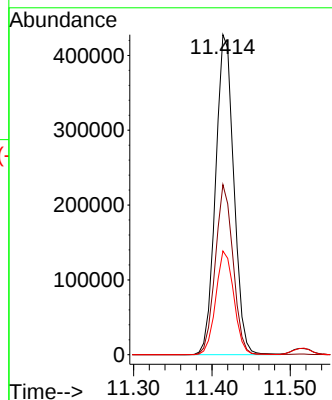
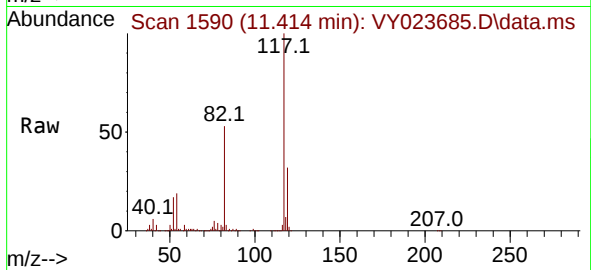
Tgt Ion:117 Resp: 692270

Ion Ratio Lower Upper

117 100

82 53.1 41.2 61.8

119 32.4 26.2 39.2



#64

Tetrachloroethene

Concen: 4.089 ug/l

RT: 10.646 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Tgt Ion:164 Resp: 29461

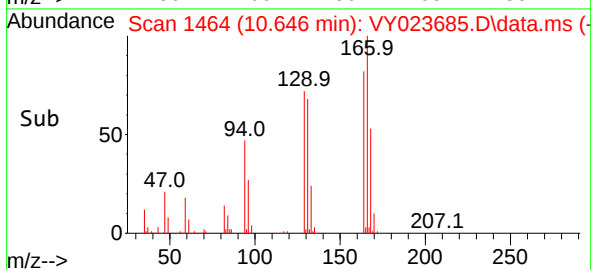
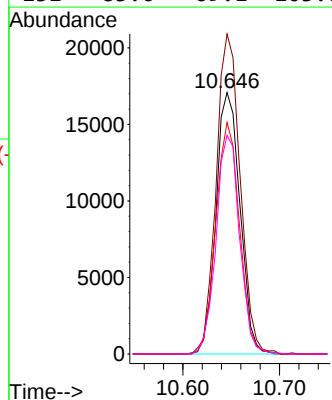
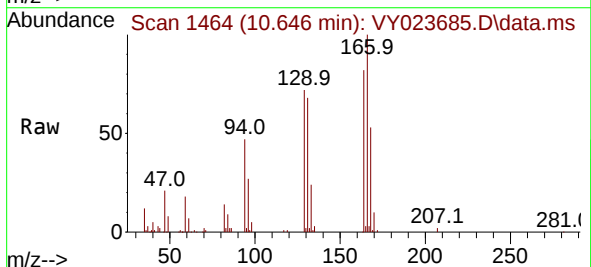
Ion Ratio Lower Upper

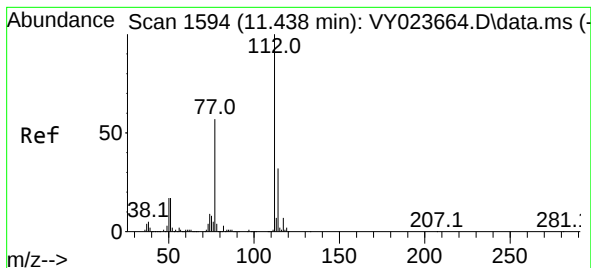
164 100

166 122.4 99.5 149.3

129 88.6 72.3 108.5

131 83.6 69.1 103.7





#65

Chlorobenzene

Concen: 4.065 ug/l

RT: 11.444 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

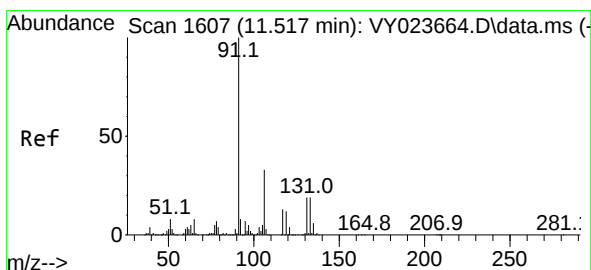
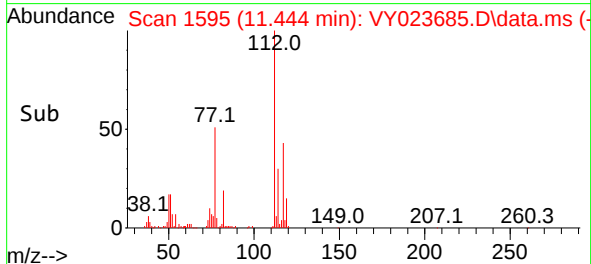
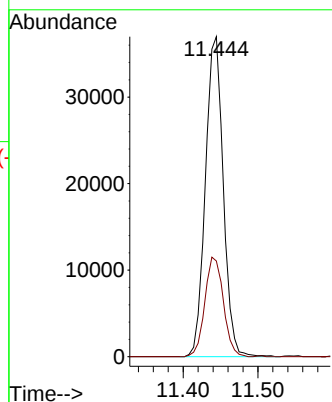
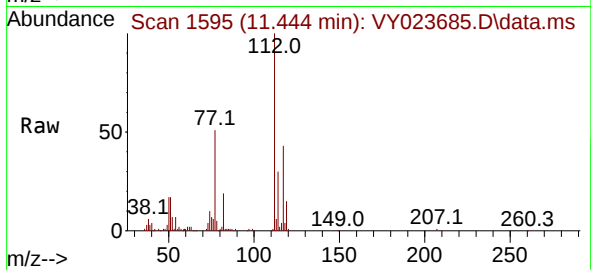
MDL-SOIL-03-QT4-2025

Tgt Ion:112 Resp: 61256

Ion Ratio Lower Upper

112 100

114 29.9 25.8 38.6



#66

1,1,1,2-Tetrachloroethane

Concen: 3.916 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

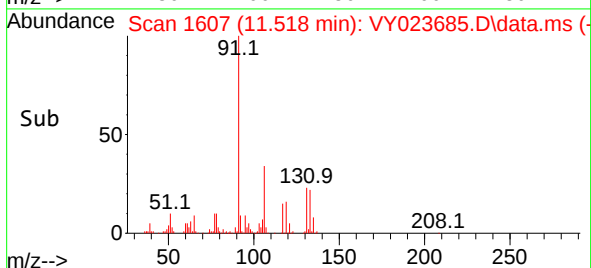
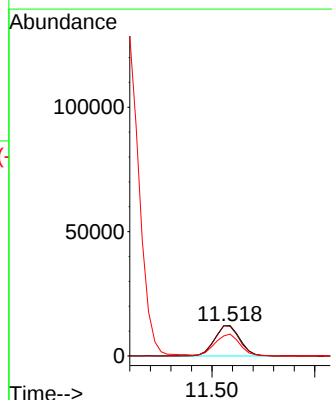
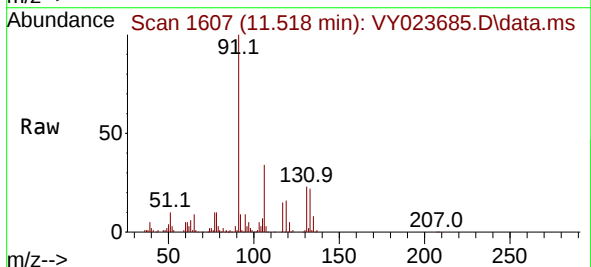
Tgt Ion:131 Resp: 20869

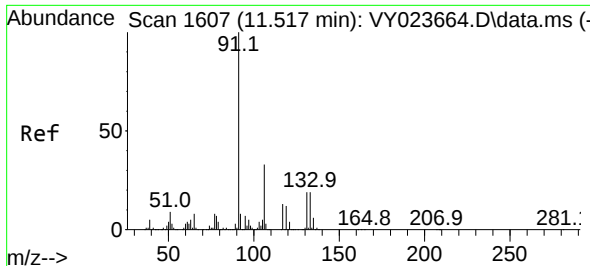
Ion Ratio Lower Upper

131 100

133 98.5 47.3 141.8

119 71.1 32.5 97.4





#67

Ethyl Benzene

Concen: 3.578 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

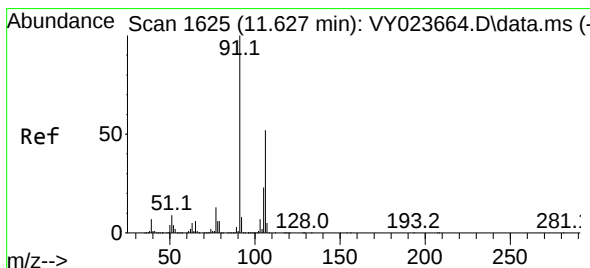
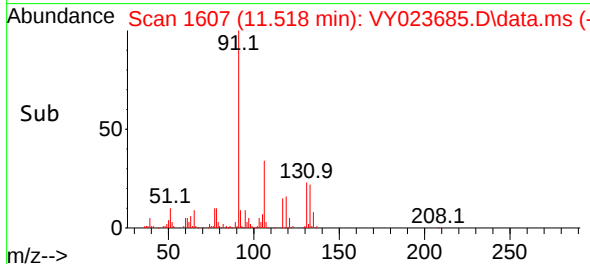
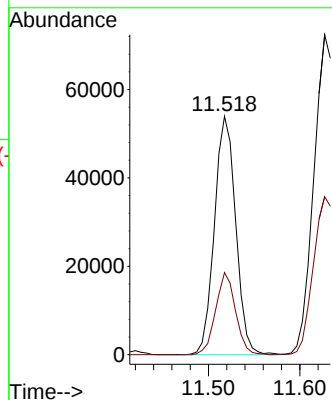
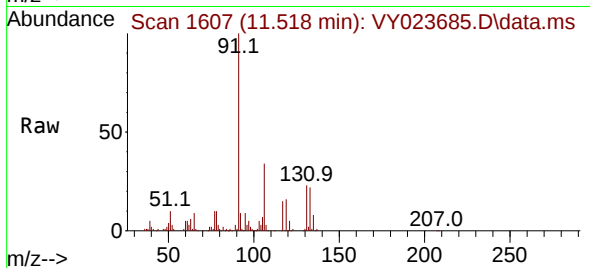
MDL-SOIL-03-QT4-2025

Tgt Ion: 91 Resp: 87279

Ion Ratio Lower Upper

91 100

106 34.5 26.6 40.0



#68

m/p-Xylenes

Concen: 6.883 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023685.D

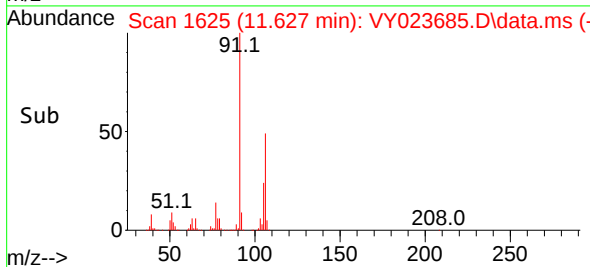
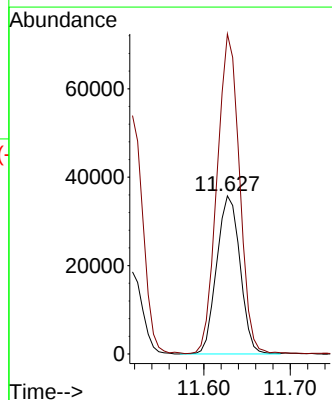
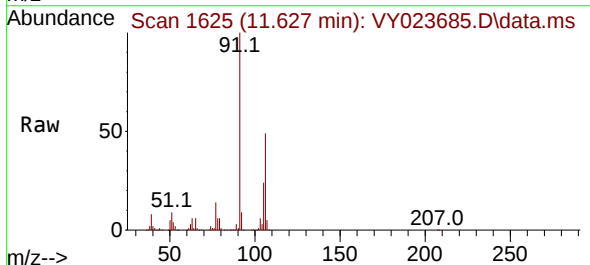
Acq: 05 Nov 2025 12:15

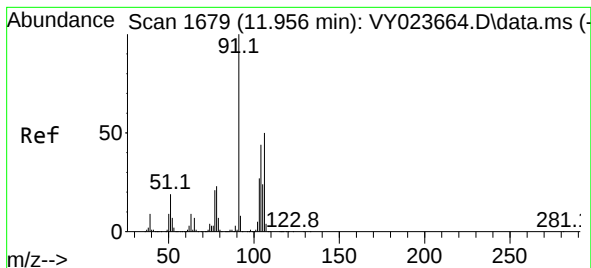
Tgt Ion: 106 Resp: 67077

Ion Ratio Lower Upper

106 100

91 194.9 154.3 231.5





#69

o-Xylene

Concen: 3.511 ug/l

RT: 11.956 min Scan# 1679

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

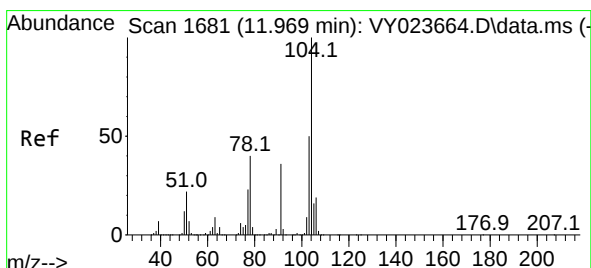
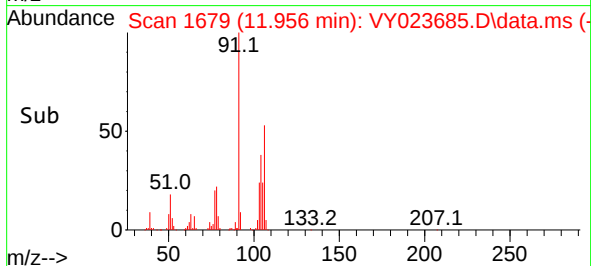
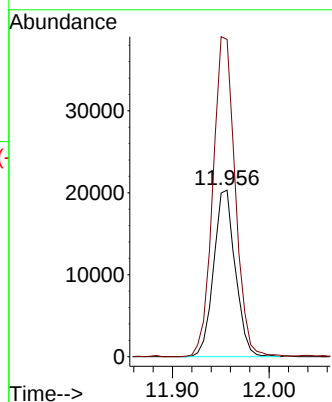
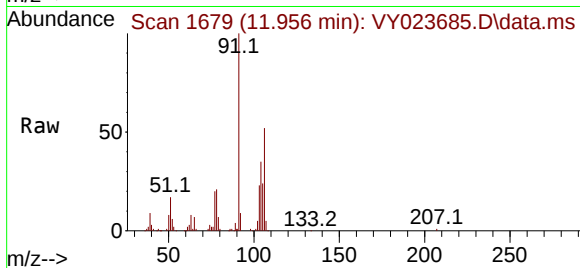
MDL-SOIL-03-QT4-2025

Tgt Ion:106 Resp: 31628

Ion Ratio Lower Upper

106 100

91 198.2 101.6 304.6



#70

Styrene

Concen: 3.326 ug/l

RT: 11.969 min Scan# 1681

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

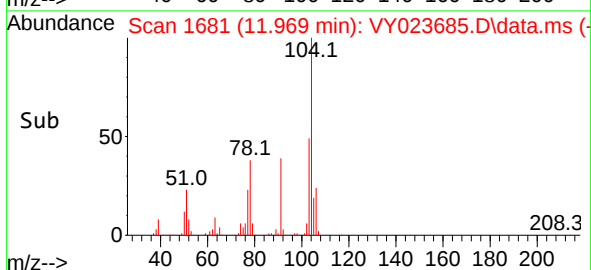
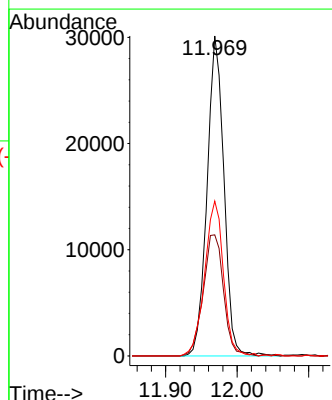
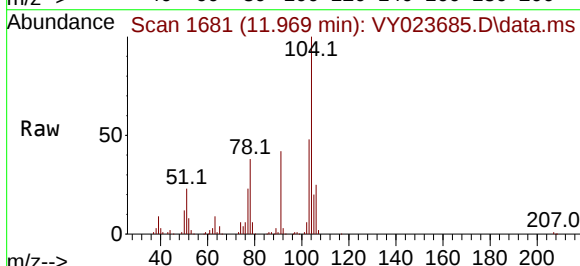
Tgt Ion:104 Resp: 49430

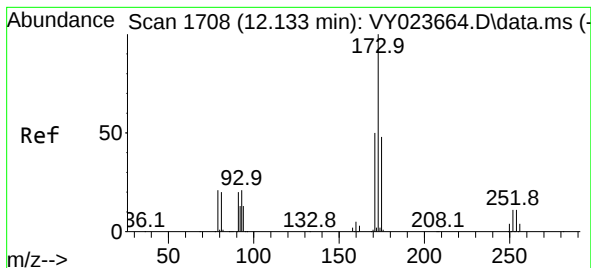
Ion Ratio Lower Upper

104 100

78 45.5 36.5 54.7

103 53.8 43.7 65.5





#71

Bromoform

Concen: 4.096 ug/l

RT: 12.133 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

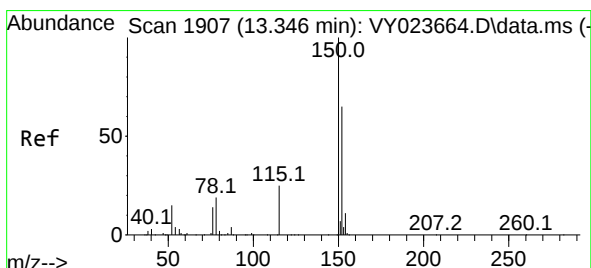
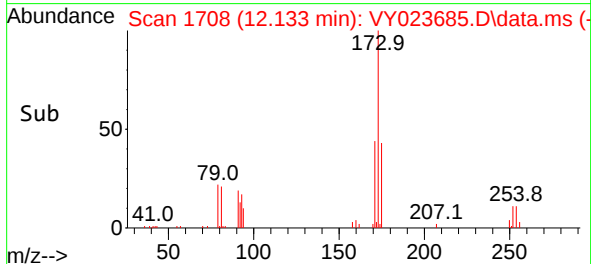
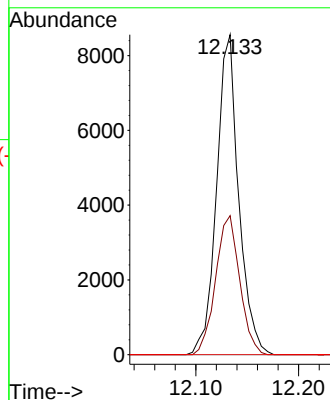
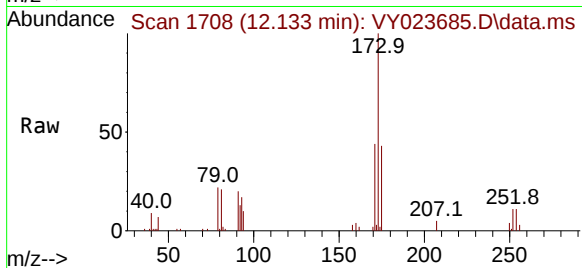
Tgt Ion:173 Resp: 12747

Ion Ratio Lower Upper

173 100

175 47.4 24.2 72.6

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

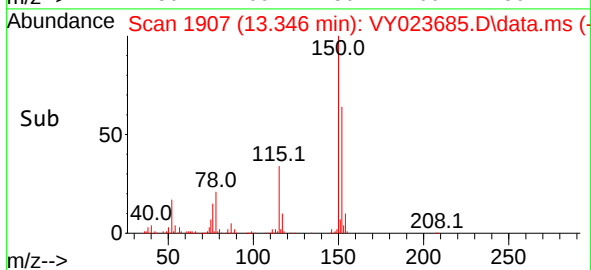
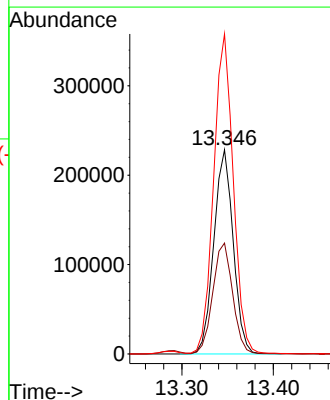
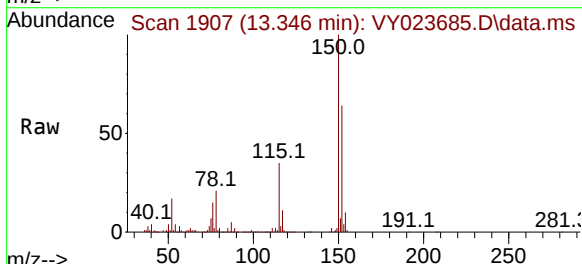
Tgt Ion:152 Resp: 336944

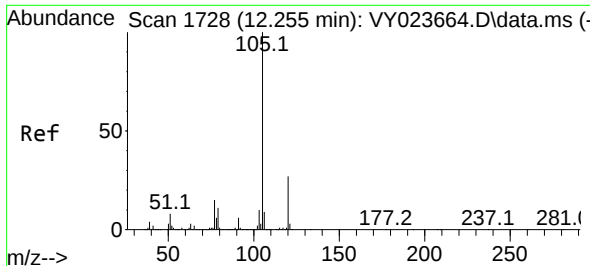
Ion Ratio Lower Upper

152 100

115 55.4 27.5 82.5

150 158.1 0.0 349.0

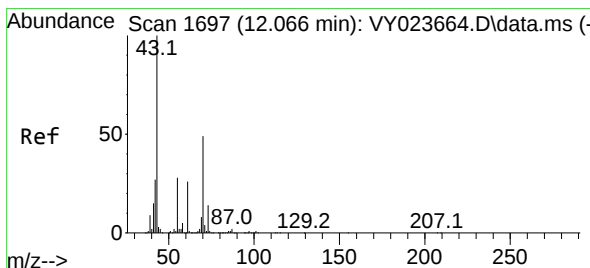
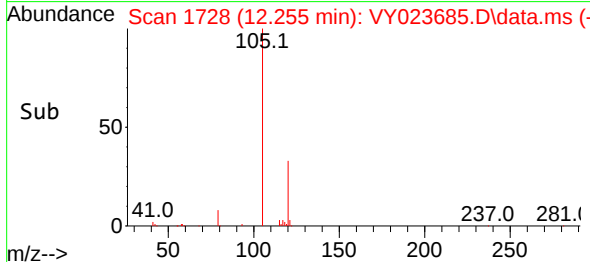
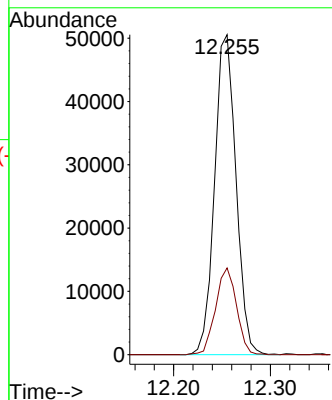
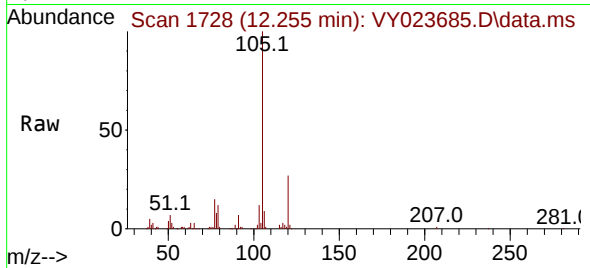




#73
Isopropylbenzene
Concen: 3.446 ug/l
RT: 12.255 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

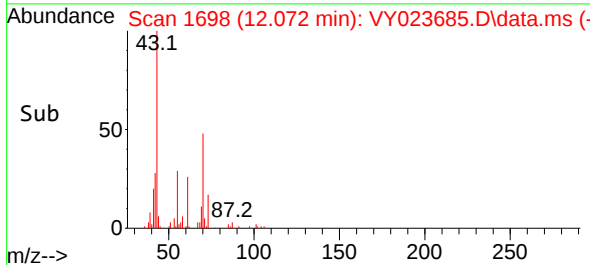
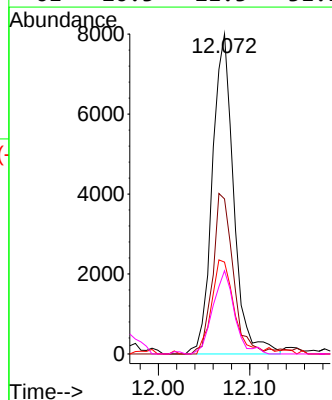
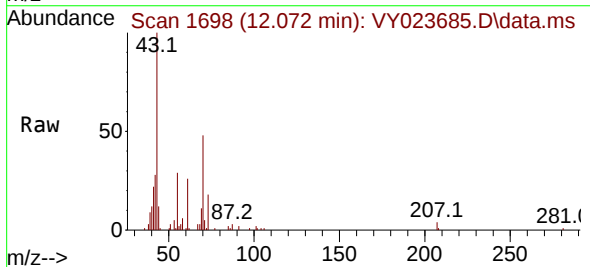
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

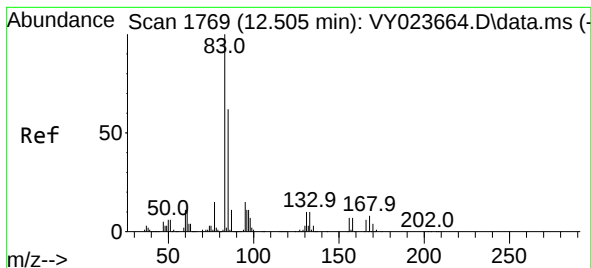
Tgt Ion:105 Resp: 77666
Ion Ratio Lower Upper
105 100
120 26.5 13.6 40.7



#74
N-ethyl acetate
Concen: 3.395 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 43 Resp: 12955
Ion Ratio Lower Upper
43 100
70 47.9 40.1 60.1
55 32.6 23.0 34.6
61 26.3 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 4.292 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

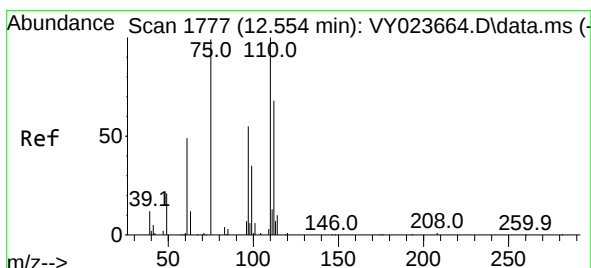
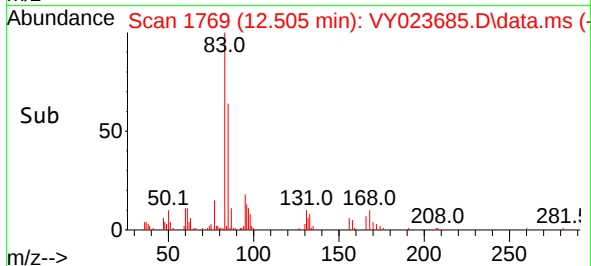
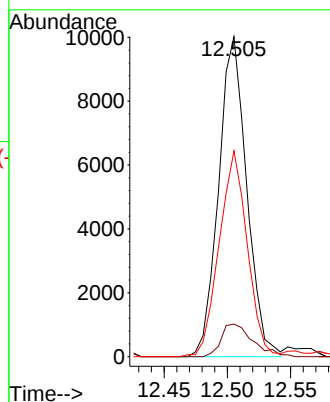
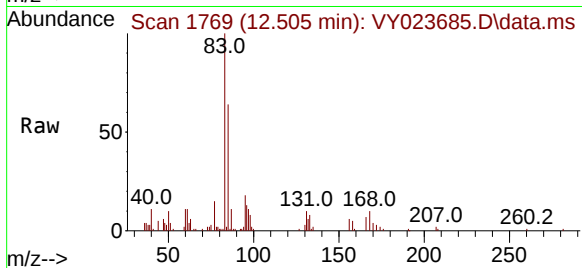
Tgt Ion: 83 Resp: 15448

Ion Ratio Lower Upper

83 100

131 11.5 5.7 17.0

85 64.2 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 7.496 ug/l

RT: 12.554 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VY023685.D

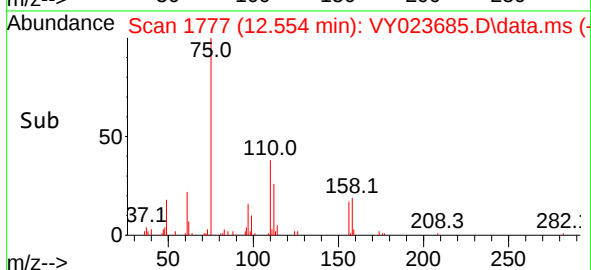
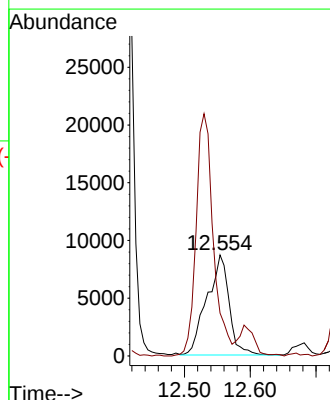
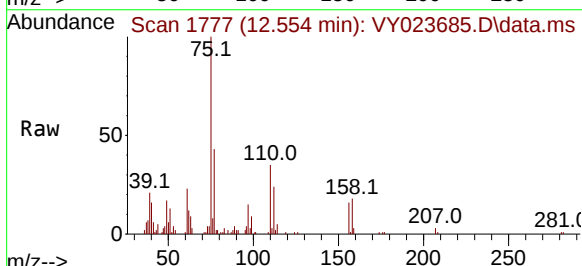
Acq: 05 Nov 2025 12:15

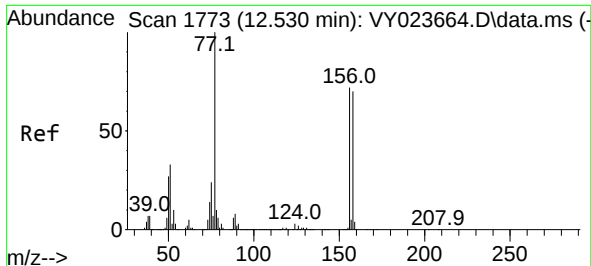
Tgt Ion: 75 Resp: 20440

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

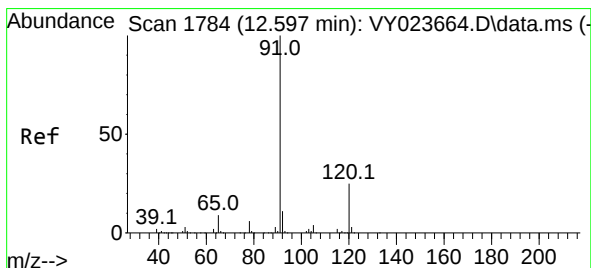
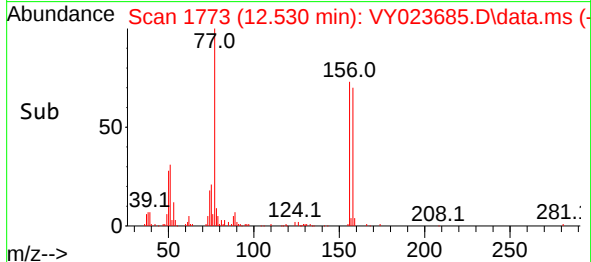
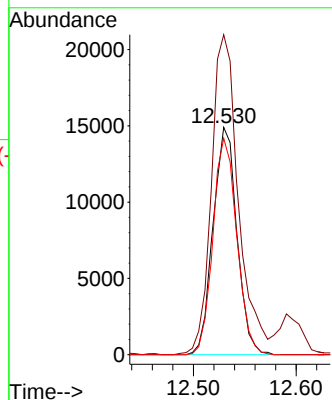
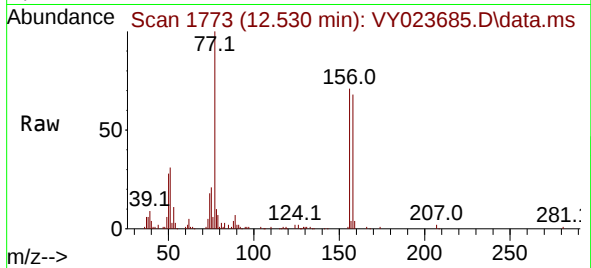




#77
Bromobenzene
Concen: 4.107 ug/l
RT: 12.530 min Scan# 1773
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

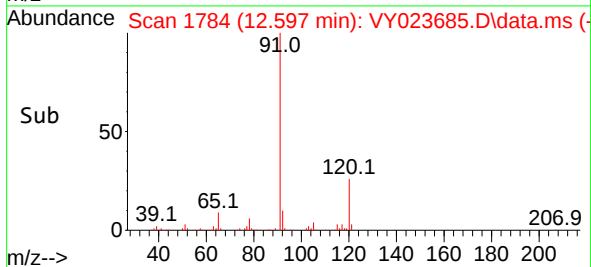
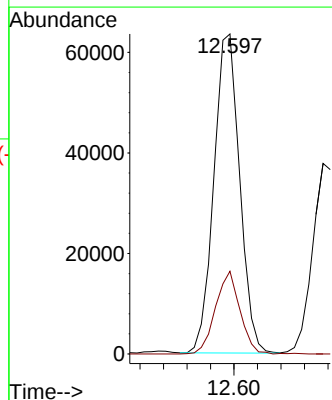
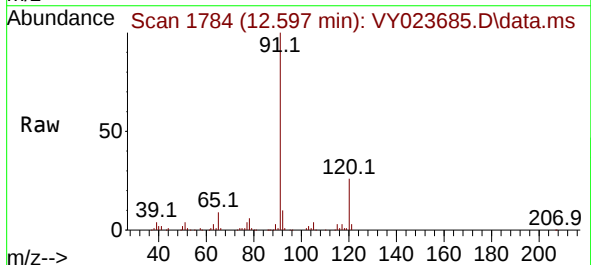
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

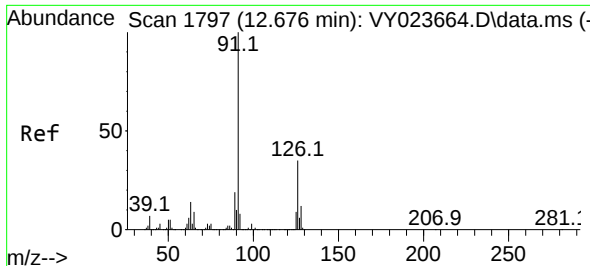
Tgt Ion:156 Resp: 24009
Ion Ratio Lower Upper
156 100
77 158.8 77.9 233.7
158 95.2 48.5 145.5



#78
n-propylbenzene
Concen: 3.652 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 91 Resp: 96813
Ion Ratio Lower Upper
91 100
120 24.5 12.0 36.1

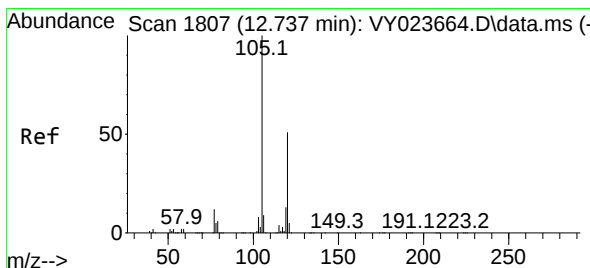
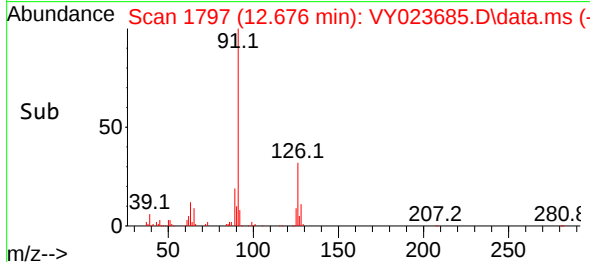
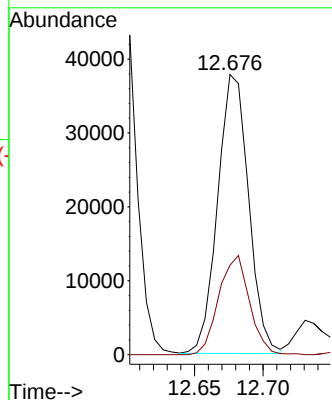
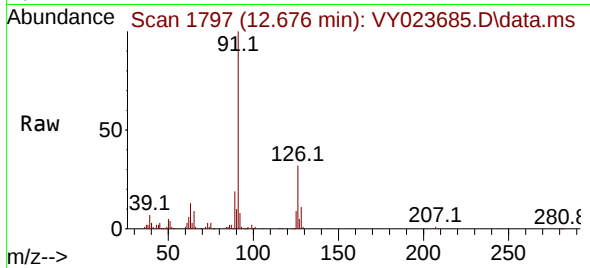




#79
2-Chlorotoluene
Concen: 3.863 ug/l
RT: 12.676 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

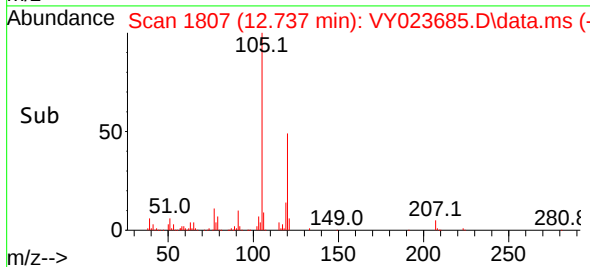
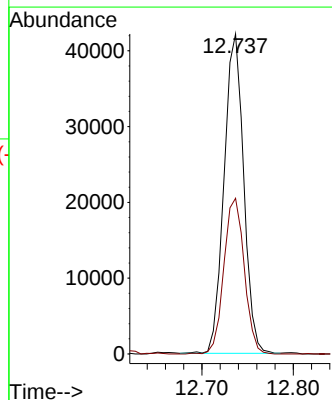
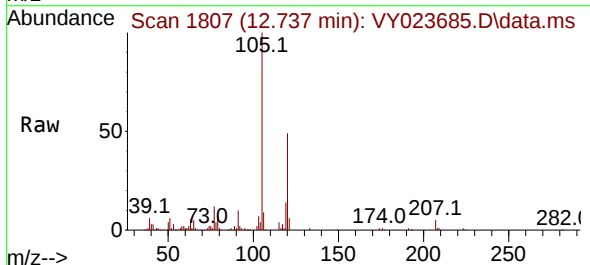
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

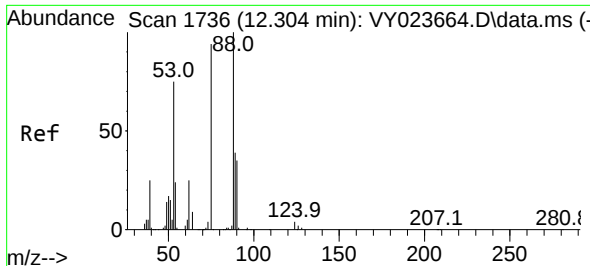
Tgt Ion: 91 Resp: 59422
Ion Ratio Lower Upper
91 100
126 35.2 18.0 54.0



#80
1,3,5-Trimethylbenzene
Concen: 3.428 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 105 Resp: 62768
Ion Ratio Lower Upper
105 100
120 50.8 25.4 76.2

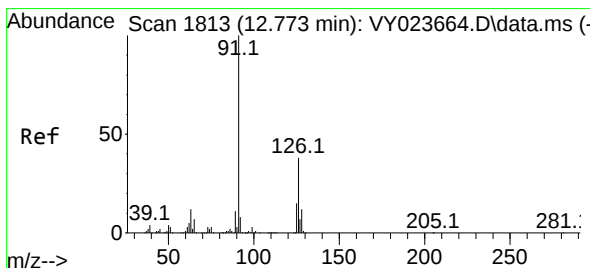
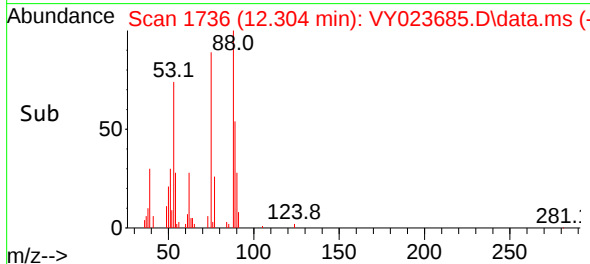
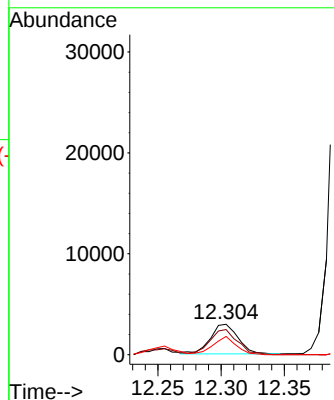
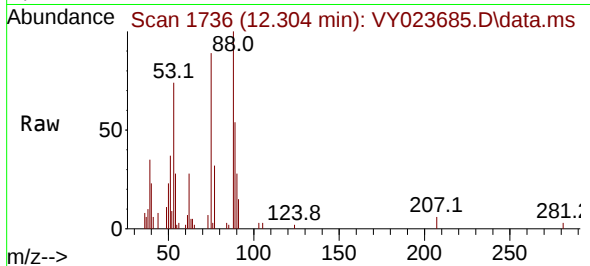




#81
trans-1,4-Dichloro-2-butene
Concen: 3.670 ug/l
RT: 12.304 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

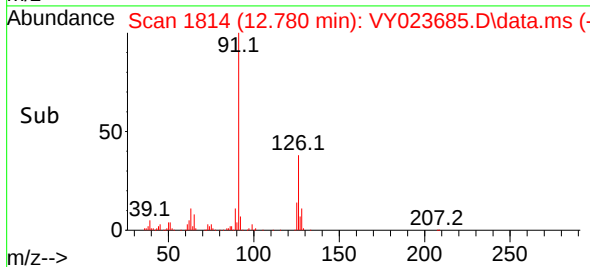
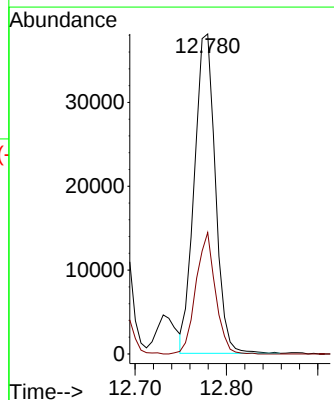
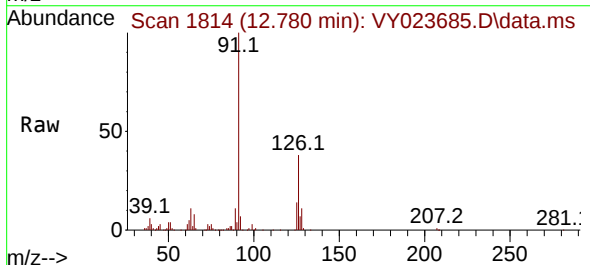
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

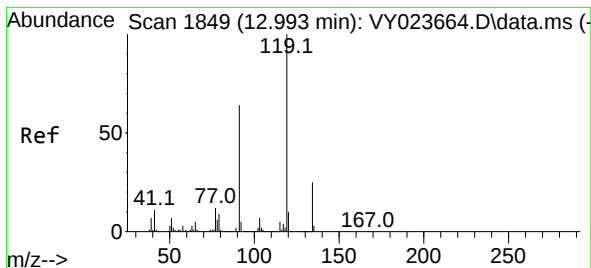
Tgt Ion: 75 Resp: 4428
Ion Ratio Lower Upper
75 100
53 85.8 69.6 104.4
89 51.9 38.2 57.4



#82
4-Chlorotoluene
Concen: 3.834 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion: 91 Resp: 60813
Ion Ratio Lower Upper
91 100
126 35.3 18.1 54.4





#83

tert-Butylbenzene

Concen: 3.423 ug/l

RT: 12.993 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

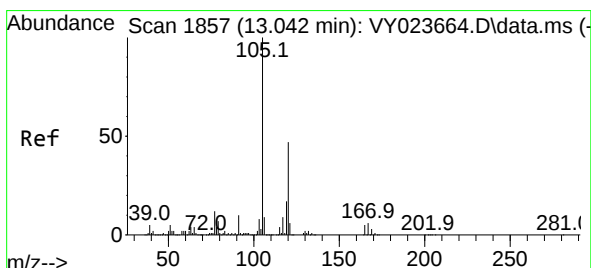
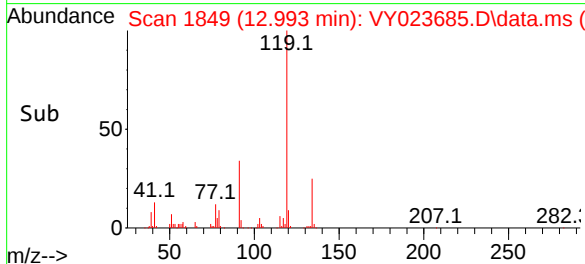
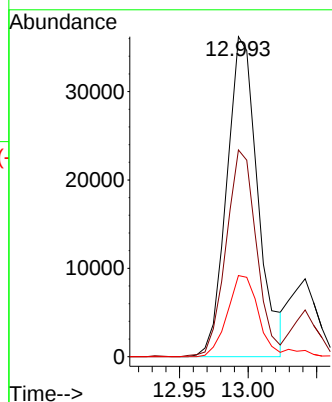
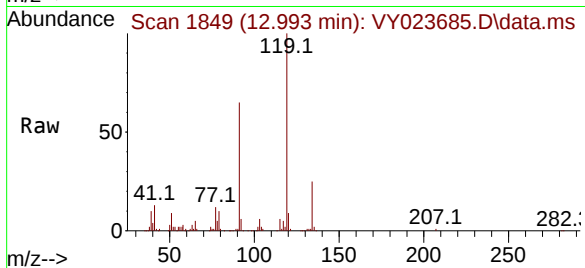
Tgt Ion:119 Resp: 57086

Ion Ratio Lower Upper

119 100

91 63.3 30.7 92.1

134 26.8 13.1 39.1



#84

1,2,4-Trimethylbenzene

Concen: 3.373 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY023685.D

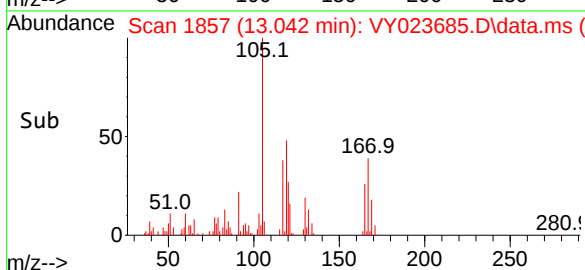
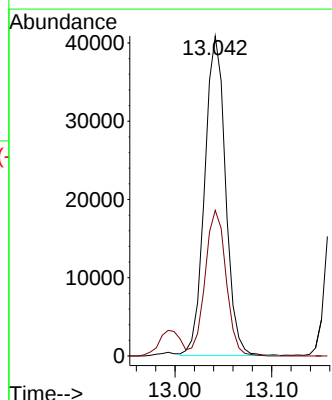
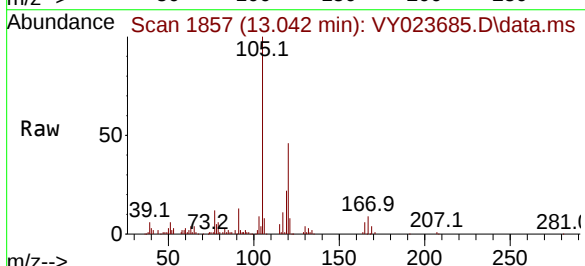
Acq: 05 Nov 2025 12:15

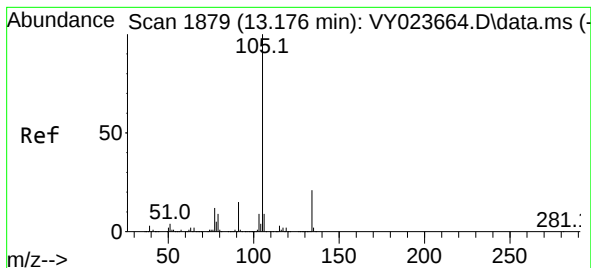
Tgt Ion:105 Resp: 61168

Ion Ratio Lower Upper

105 100

120 46.0 23.2 69.6





#85

sec-Butylbenzene

Concen: 3.460 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

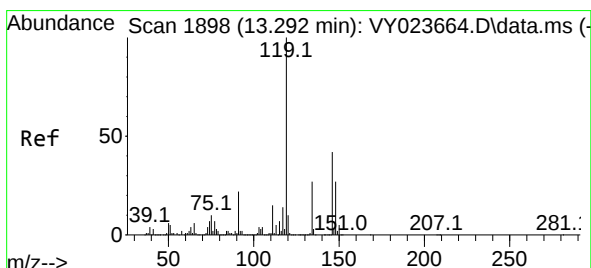
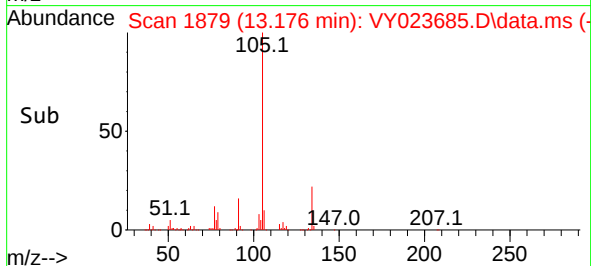
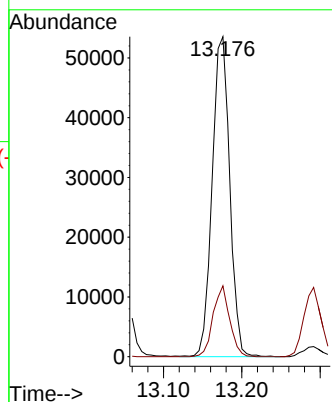
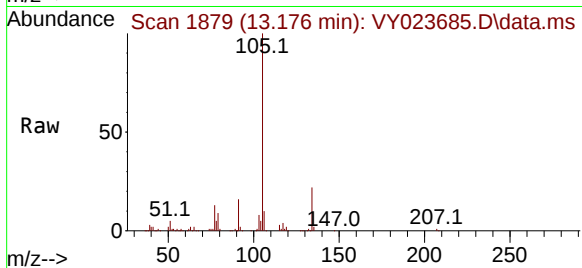
MDL-SOIL-03-QT4-2025

Tgt Ion:105 Resp: 83211

Ion Ratio Lower Upper

105 100

134 20.9 10.4 31.4



#86

p-Isopropyltoluene

Concen: 3.250 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

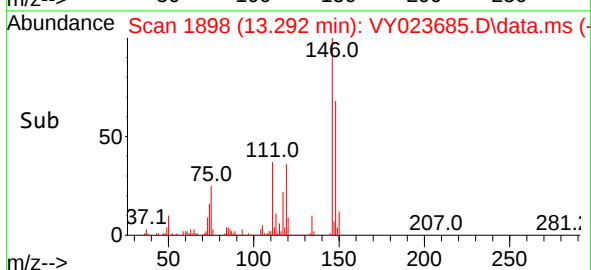
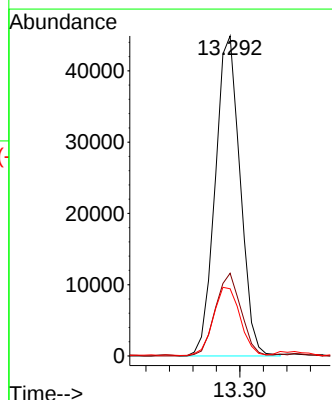
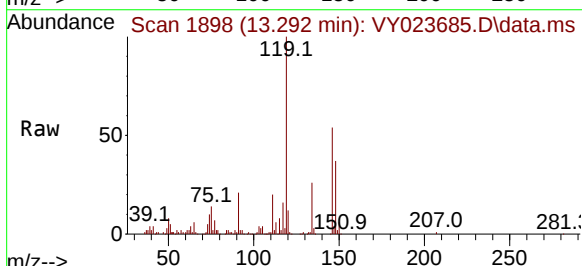
Tgt Ion:119 Resp: 66171

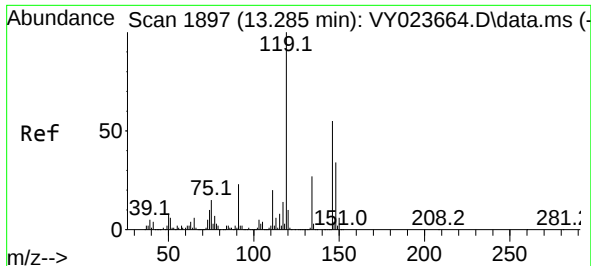
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.2

91 23.0 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 3.936 ug/l

RT: 13.286 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

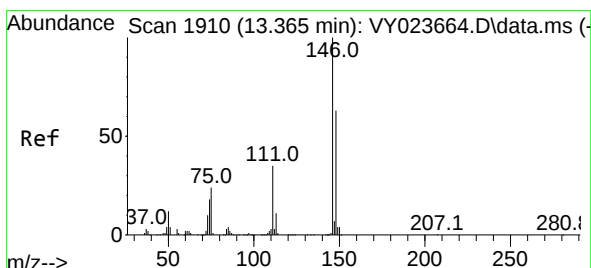
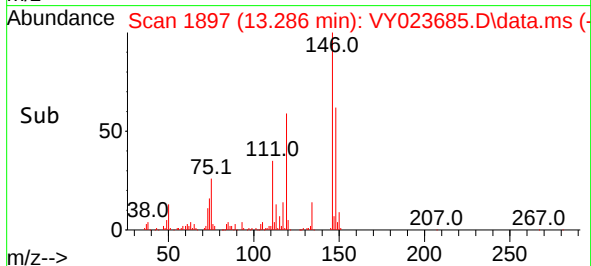
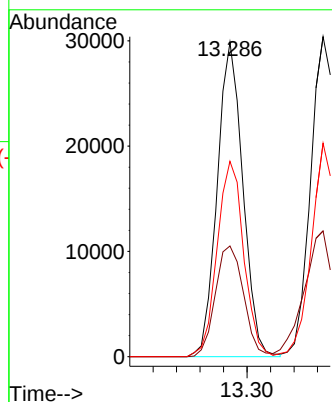
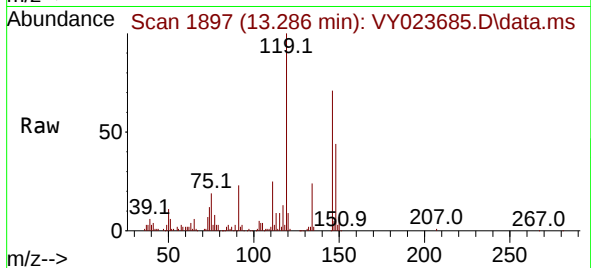
Tgt Ion:146 Resp: 45287

Ion Ratio Lower Upper

146 100

111 38.7 18.8 56.3

148 64.4 31.9 95.5



#88

1,4-Dichlorobenzene

Concen: 4.152 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

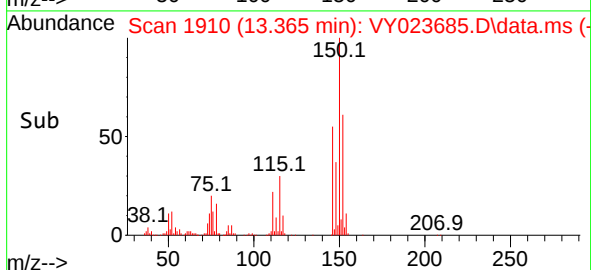
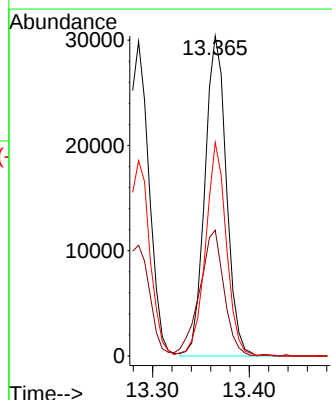
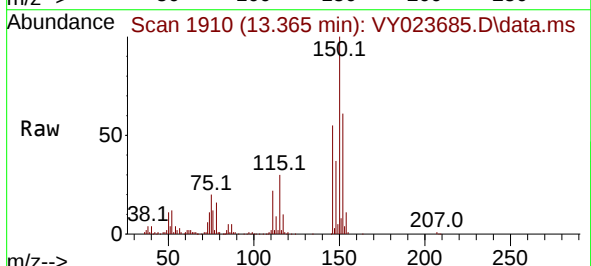
Tgt Ion:146 Resp: 46929

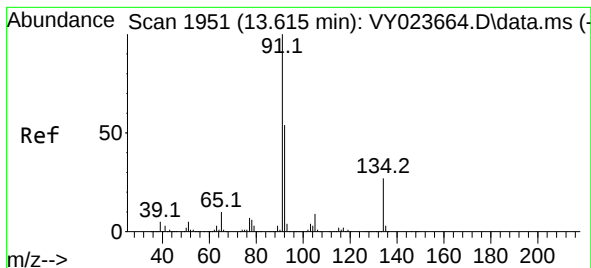
Ion Ratio Lower Upper

146 100

111 44.4 18.3 54.8

148 64.8 31.8 95.3





#89

n-Butylbenzene

Concen: 3.393 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

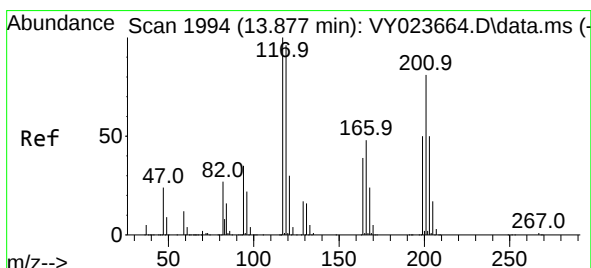
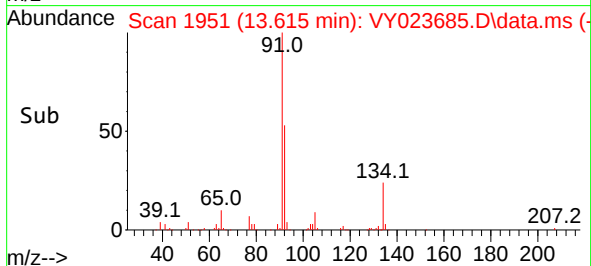
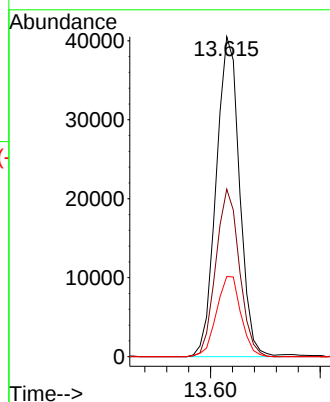
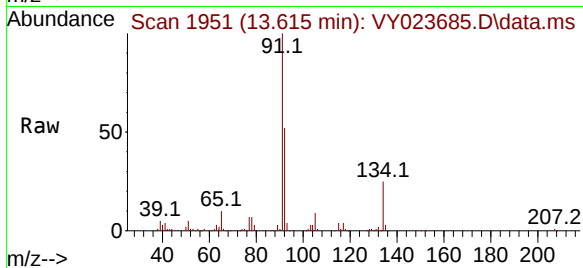
Tgt Ion: 91 Resp: 60080

Ion Ratio Lower Upper

91 100

92 52.7 26.5 79.4

134 26.2 13.7 41.1



#90

Hexachloroethane

Concen: 4.082 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023685.D

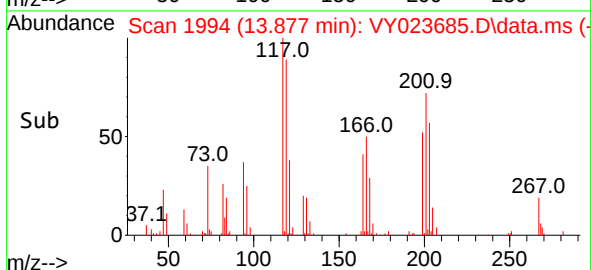
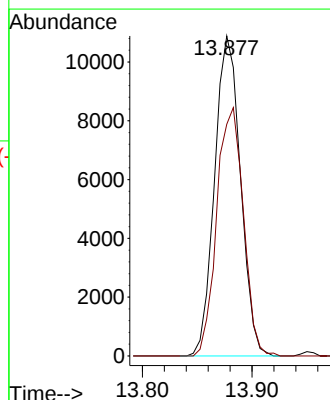
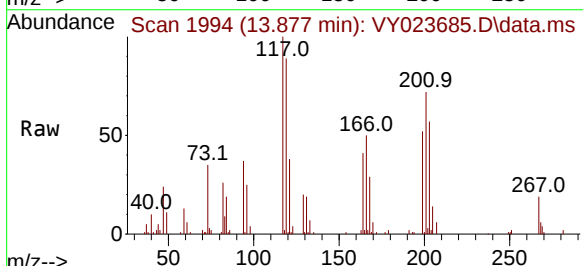
Acq: 05 Nov 2025 12:15

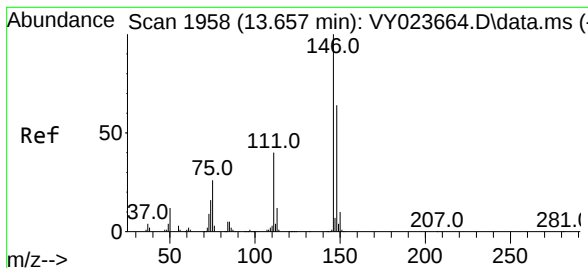
Tgt Ion: 117 Resp: 17862

Ion Ratio Lower Upper

117 100

201 79.8 42.3 126.8





#91

1,2-Dichlorobenzene

Concen: 3.967 ug/l

RT: 13.657 min Scan# 1958

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

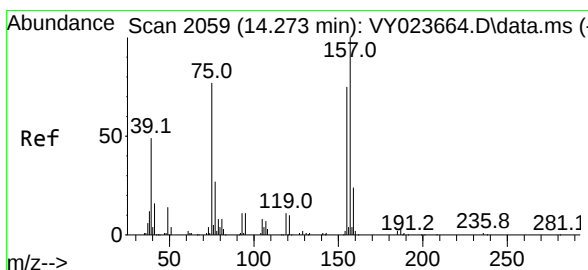
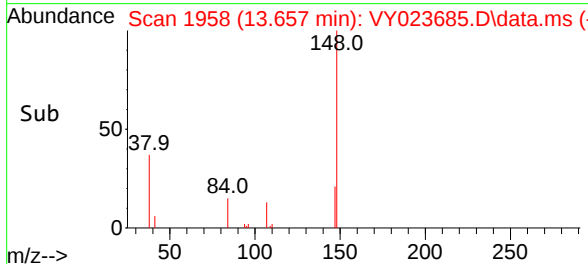
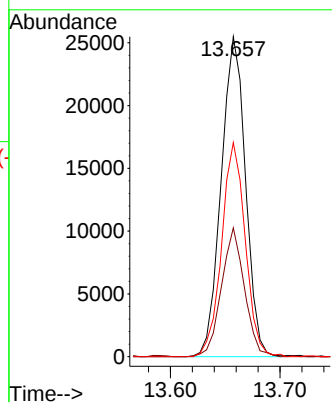
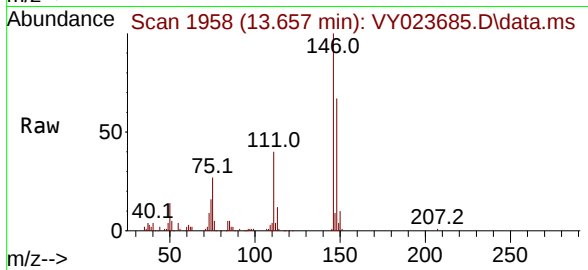
Tgt Ion:146 Resp: 39329

Ion Ratio Lower Upper

146 100

111 38.0 19.5 58.5

148 65.0 31.9 95.9



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.697 ug/l

RT: 14.273 min Scan# 2059

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

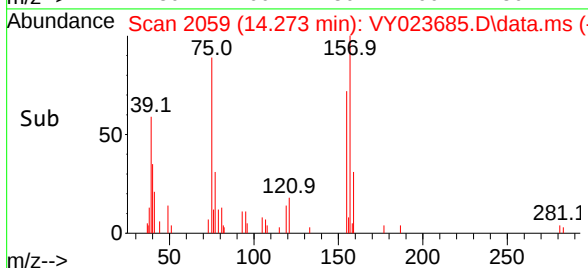
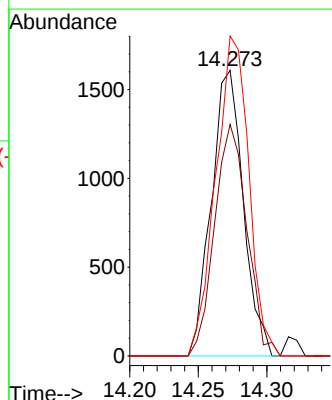
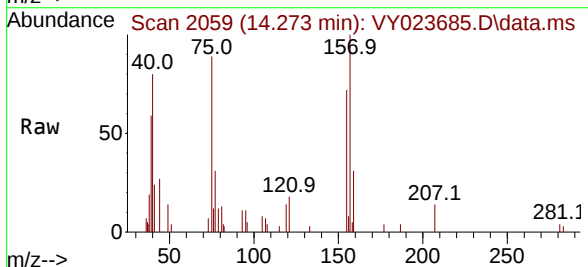
Tgt Ion: 75 Resp: 2603

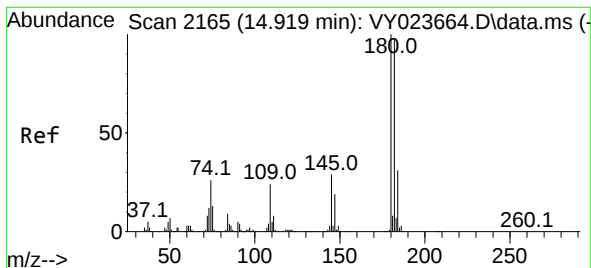
Ion Ratio Lower Upper

75 100

155 82.0 49.4 148.2

157 116.4 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 3.526 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2025

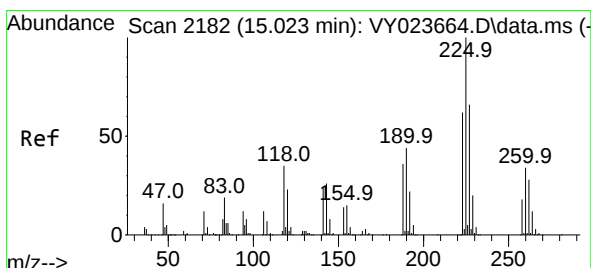
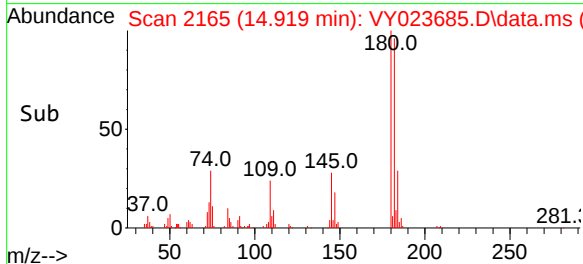
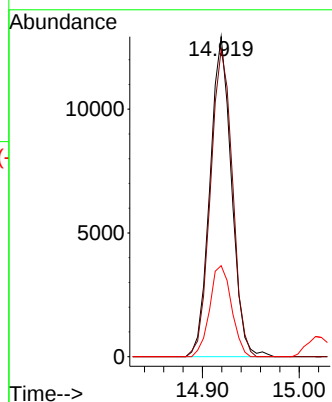
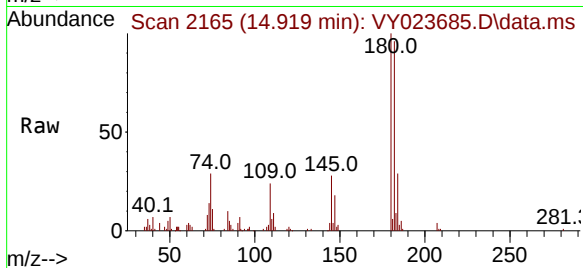
Tgt Ion:180 Resp: 19996

Ion Ratio Lower Upper

180 100

182 97.9 47.5 142.6

145 28.8 14.4 43.4



#94

Hexachlorobutadiene

Concen: 3.794 ug/l

RT: 15.017 min Scan# 2181

Delta R.T. -0.006 min

Lab File: VY023685.D

Acq: 05 Nov 2025 12:15

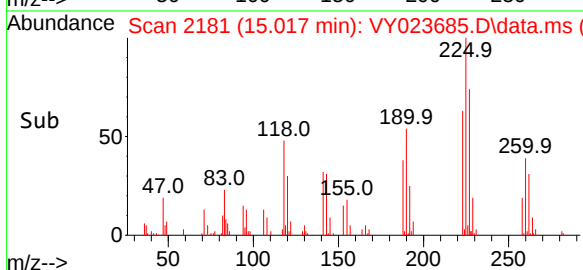
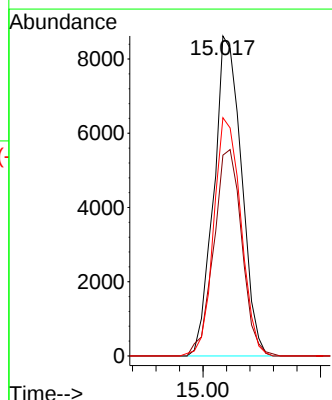
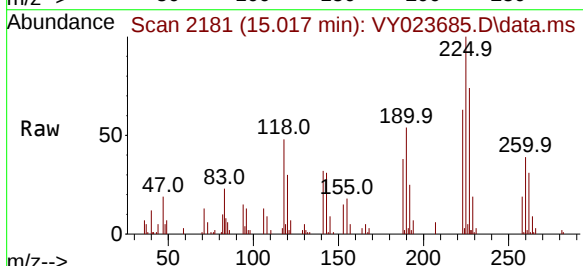
Tgt Ion:225 Resp: 14099

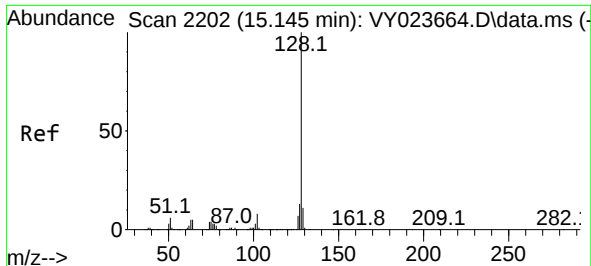
Ion Ratio Lower Upper

225 100

223 65.5 30.8 92.3

227 73.0 32.0 96.2

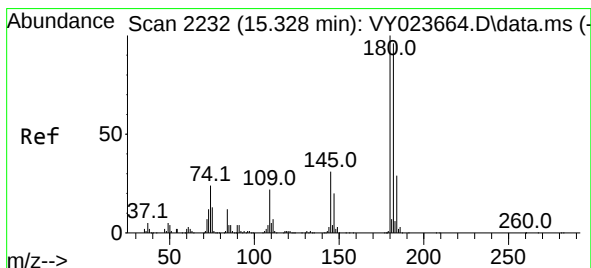
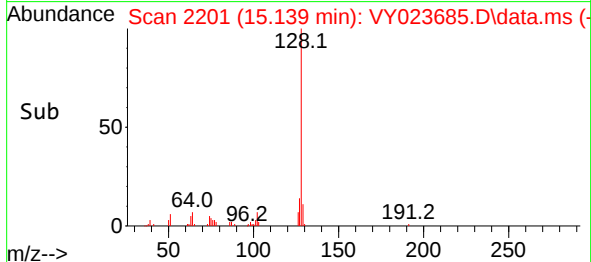
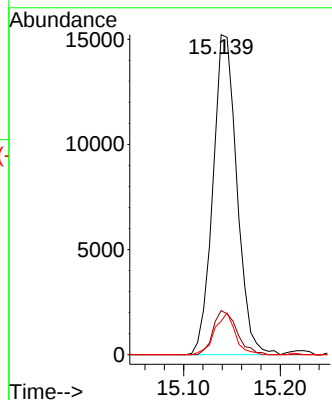
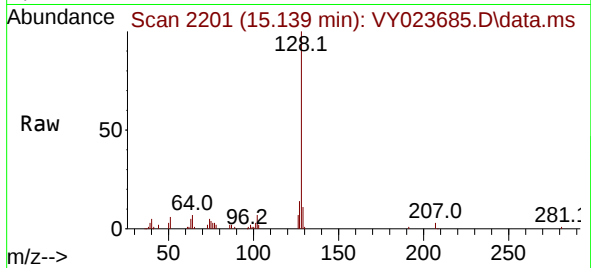




#95
Naphthalene
Concen: 7.630 ug/l
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2025

Tgt Ion:	128	Resp:	26236
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.5	15.7
129	11.2	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 3.651 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023685.D
Acq: 05 Nov 2025 12:15

Tgt Ion:	180	Resp:	17302
Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.6
145	30.3	15.5	46.5

