

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
 Data File : VY021471.D
 Acq On : 07 Mar 2025 19:09
 Operator : SY/MD
 Sample : Q1490-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CLAY-SLUDGE-DRUMS

Quant Time: Mar 07 22:04:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

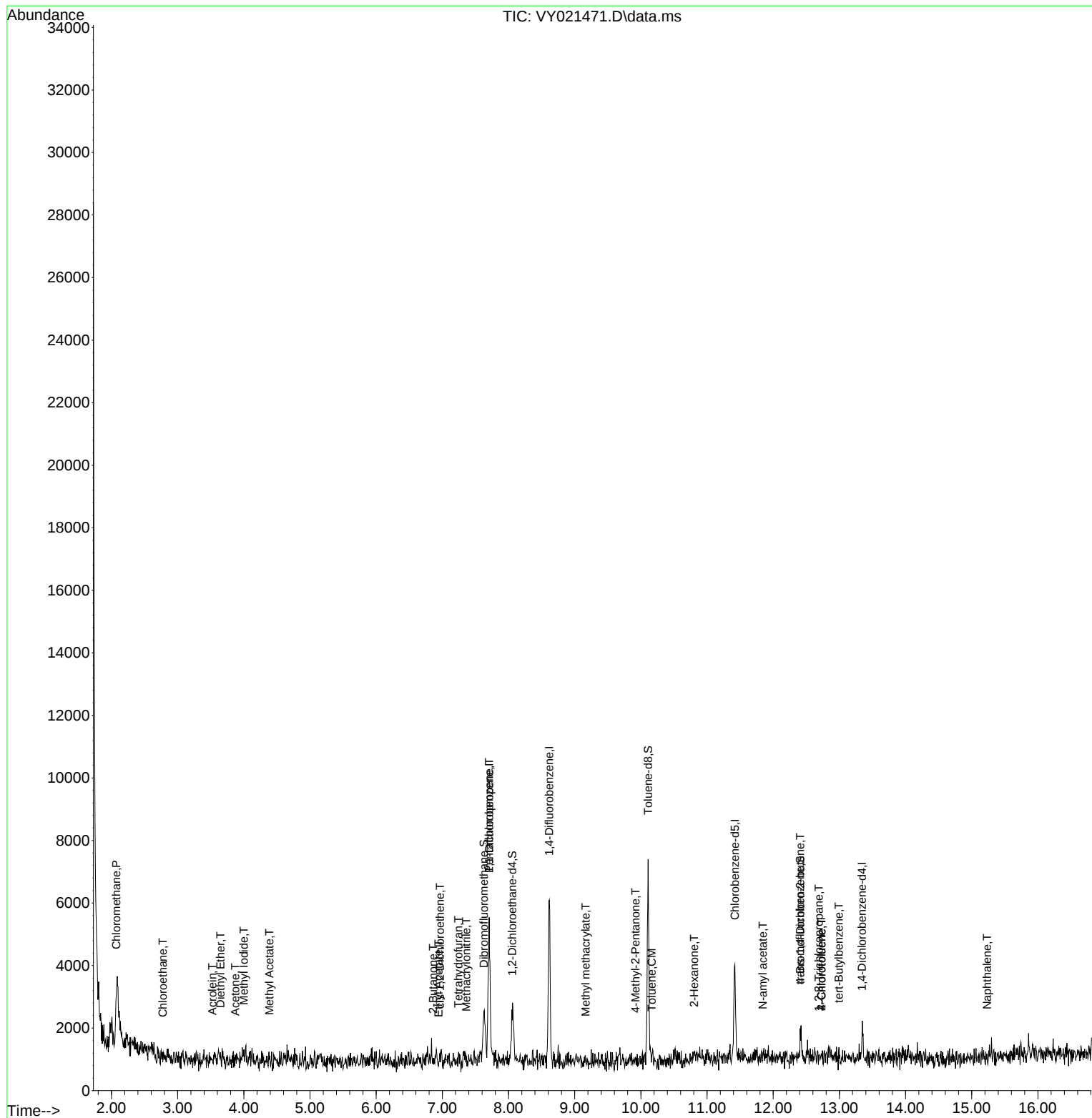
Internal Standards						
1) Pentafluorobenzene	7.707	168	3657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	4145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1911	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	287	50.000	ug/l	#-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	1643	42.507	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	85.020%		
35) Dibromofluoromethane	7.628	113	1394	51.164	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.320%		
50) Toluene-d8	10.109	98	4089	39.637	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	79.280%		
62) 4-Bromofluorobenzene	12.408	95	381	10.857	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	21.720%#		
Target Compounds						Qvalue
3) Chloromethane	2.074	50	222	4.692	ug/l #	42
6) Chloroethane	2.775	64	40	1.171	ug/l #	41
8) Diethyl Ether	3.647	74	25	1.250	ug/l	93
10) Methyl Iodide	4.001	142	150	3.581	ug/l #	37
11) Tert butyl alcohol	4.903	59	44	Below Cal	#	72
13) Acrolein	3.525	56	19	9.664	ug/l #	10
16) Acetone	3.873	43	177	20.995	ug/l #	47
18) Methyl Acetate	4.385	43	80	4.277	ug/l #	51
25) 2-Butanone	6.860	43	22	1.887	ug/l #	48
27) cis-1,2-Dichloroethene	6.963	96	65	1.360	ug/l #	1
29) Tetrahydrofuran	7.244	42	34	4.723	ug/l #	33
36) 1,1-Dichloropropene	7.707	75	375	8.793	ug/l #	41
37) Ethyl Acetate	6.945	43	20	1.061	ug/l #	68
41) Methacrylonitrile	7.360	41	22	2.143	ug/l #	24
48) Methyl methacrylate	9.164	41	94	5.594	ug/l #	41
51) 4-Methyl-2-Pentanone	9.920	43	44	2.330	ug/l #	36
52) Toluene	10.164	92	80	1.010	ug/l #	29
59) 2-Hexanone	10.804	43	76	6.088	ug/l #	24
74) N-amyl acetate	11.841	43	20	4.073	ug/l #	42
76) 1,2,3-Trichloropropane	12.688	75	27	9.336	ug/l #	100
79) 2-Chlorotoluene	12.731	91	22	1.401	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.408	75	151	118.694	ug/l #	9
82) 4-Chlorotoluene	12.731	91	22	1.353	ug/l #	41
83) tert-Butylbenzene	12.993	119	24	1.464	ug/l #	26
95) Naphthalene	15.230	128	22	4.265	ug/l #	69

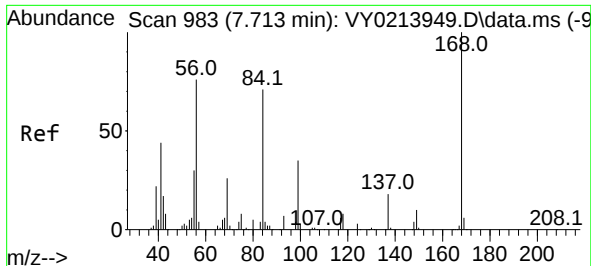
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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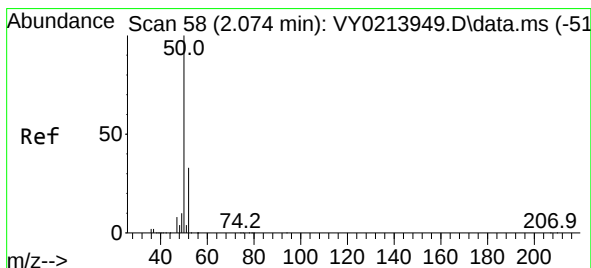
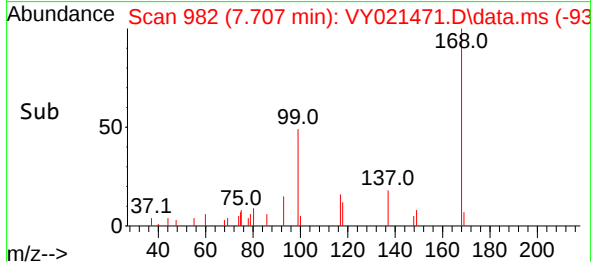
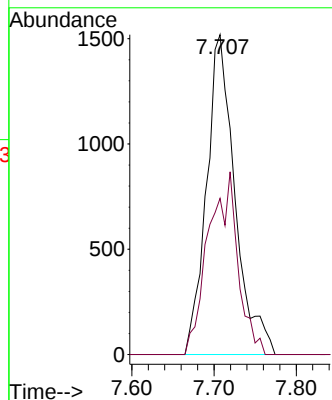
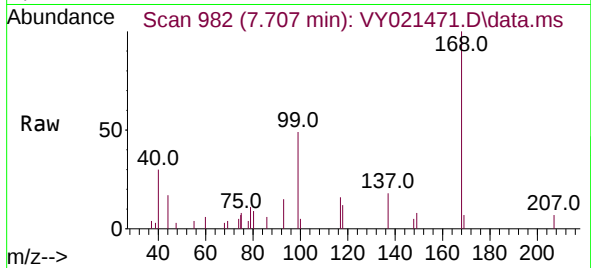




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

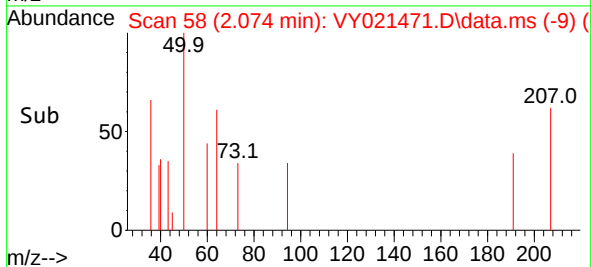
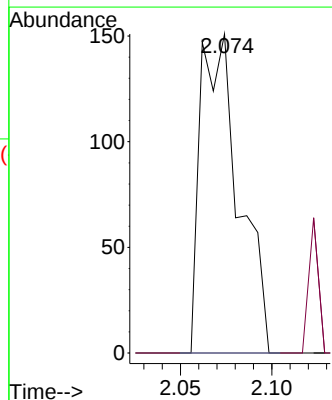
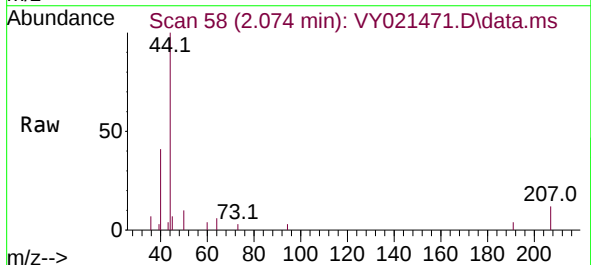
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

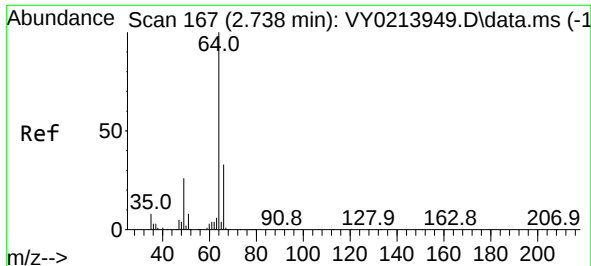
Tgt Ion:168 Resp: 3657
Ion Ratio Lower Upper
168 100
99 48.8 46.0 69.0



#3
Chloromethane
Concen: 4.692 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 50 Resp: 222
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

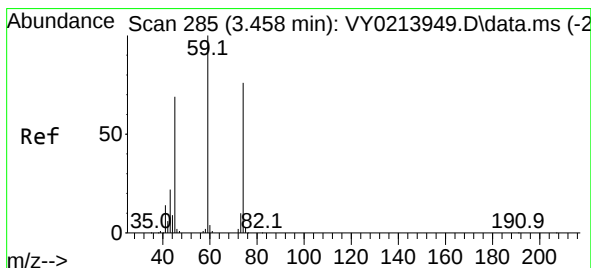
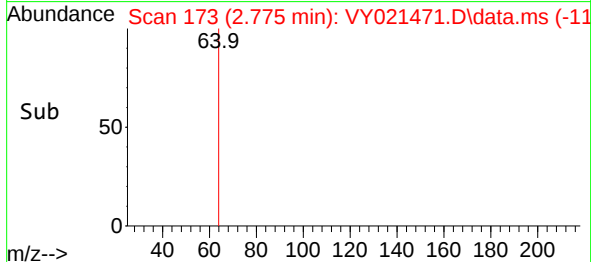
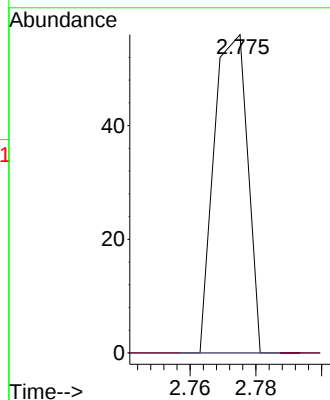
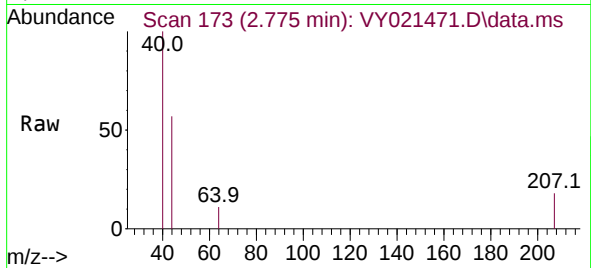




#6
Chloroethane
Concen: 1.171 ug/l
RT: 2.775 min Scan# 11
Delta R.T. 0.037 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

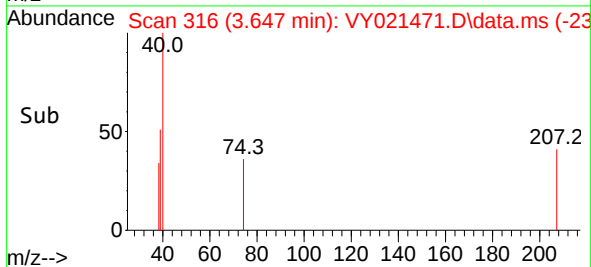
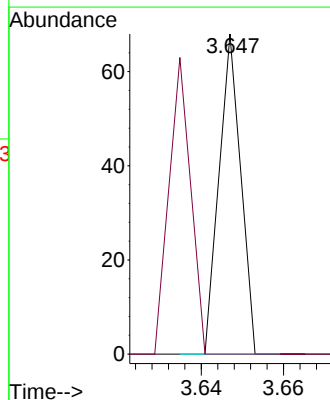
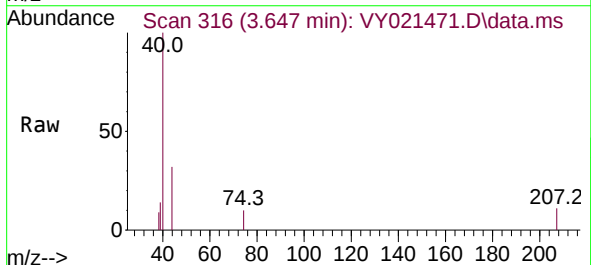
Instrument :
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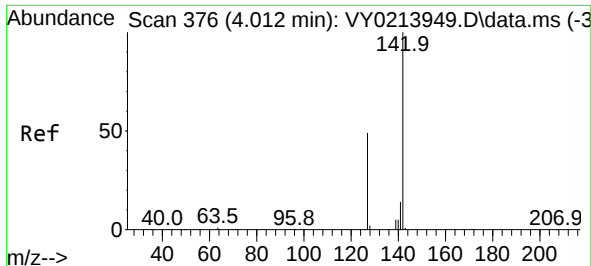
Tgt Ion: 64 Resp: 40
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#8
Diethyl Ether
Concen: 1.250 ug/l
RT: 3.647 min Scan# 316
Delta R.T. 0.189 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

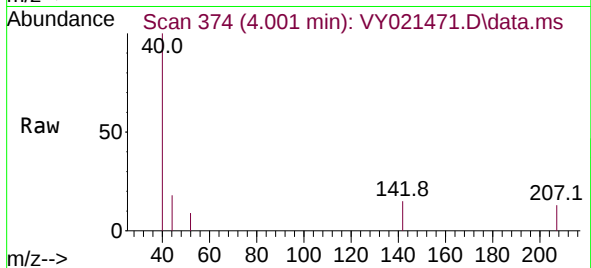
Tgt Ion: 74 Resp: 25
Ion Ratio Lower Upper
74 100
45 92.0 49.7 149.1



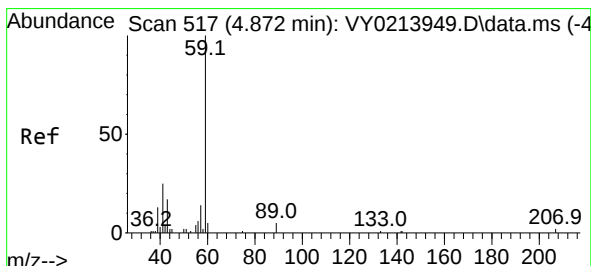
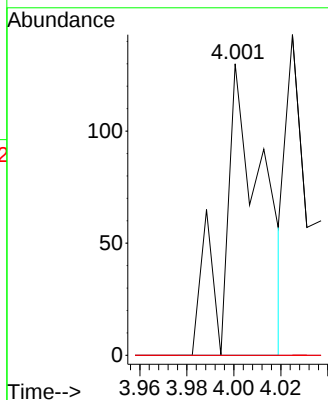
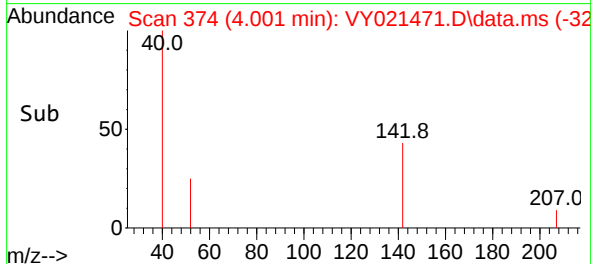


#10
Methyl Iodide
Concen: 3.581 ug/l
RT: 4.001 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

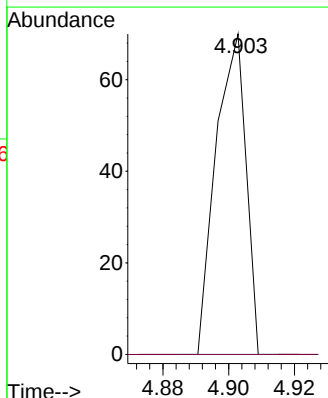
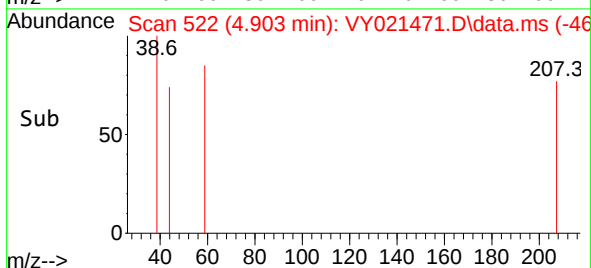
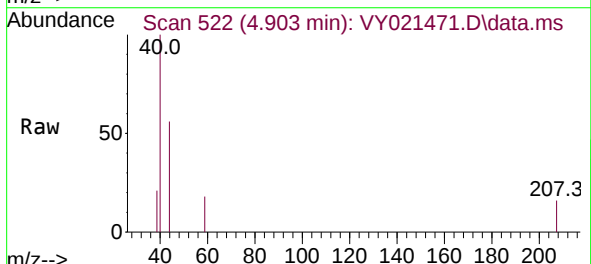


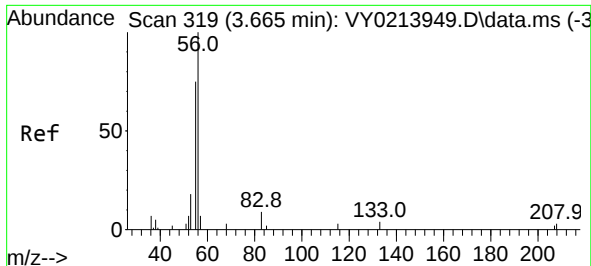
Tgt Ion:142 Resp: 150
Ion Ratio Lower Upper
142 100
127 0.0 39.1 58.7#
141 0.0 11.8 17.6#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.903 min Scan# 522
Delta R.T. 0.031 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 59 Resp: 44
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

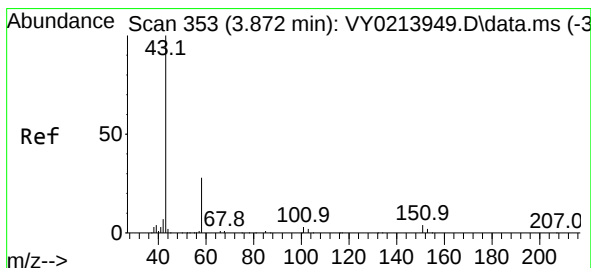
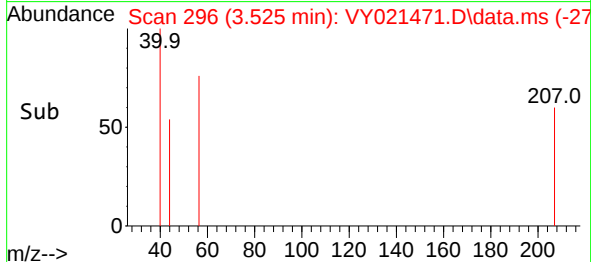
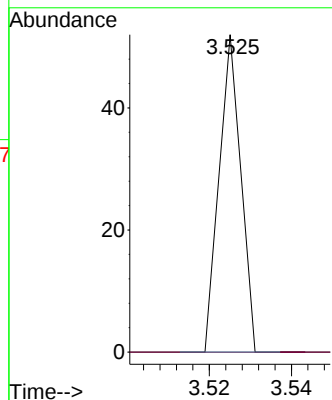
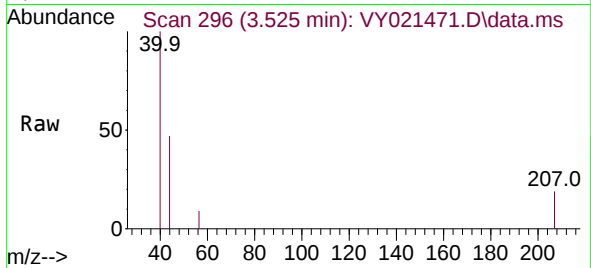




#13
Acrolein
Concen: 9.664 ug/l
RT: 3.525 min Scan# 296
Delta R.T. -0.140 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

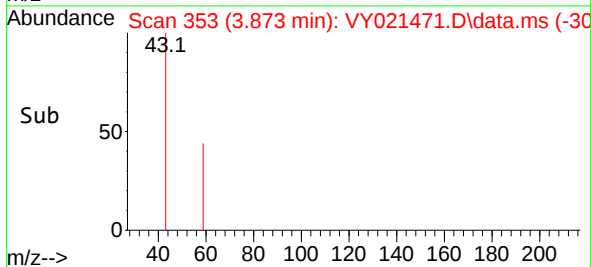
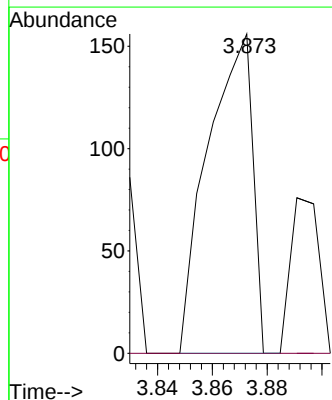
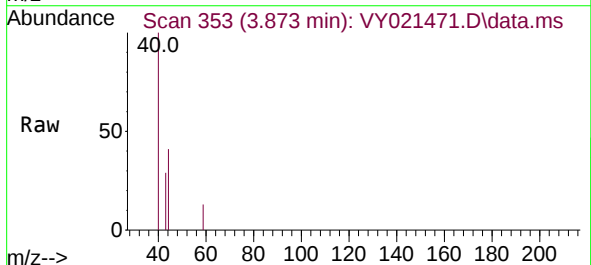
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

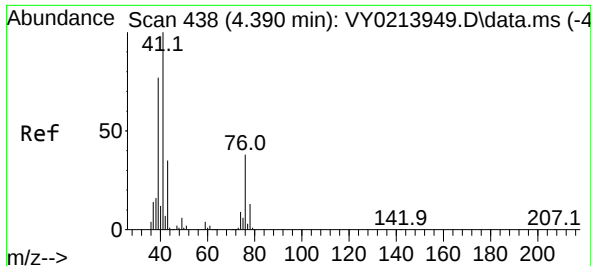
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#



#16
Acetone
Concen: 20.995 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.001 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 43 Resp: 177
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#18

Methyl Acetate

Concen: 4.277 ug/l

RT: 4.385 min Scan# 41

Delta R.T. -0.006 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

Instrument :

MSVOA_Y

ClientSampleId :

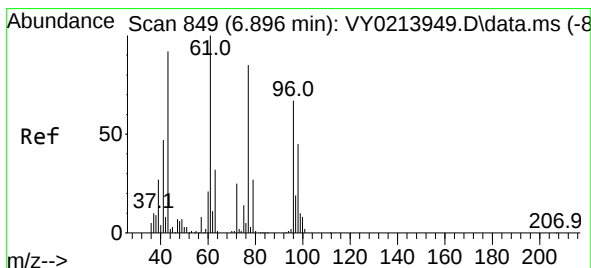
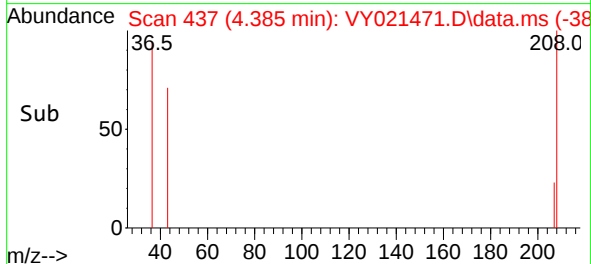
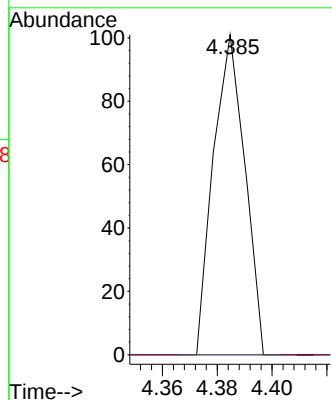
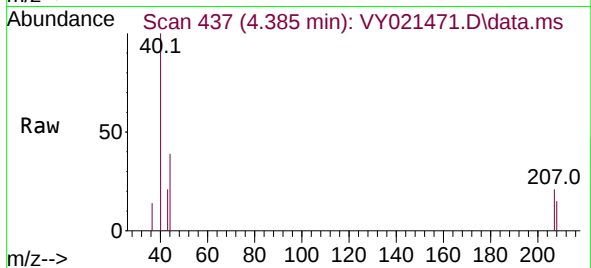
CLAY-SLUDGE-DRUMS

Tgt Ion: 43 Resp: 80

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.0#



#25

2-Butanone

Concen: 1.887 ug/l

RT: 6.860 min Scan# 843

Delta R.T. -0.036 min

Lab File: VY021471.D

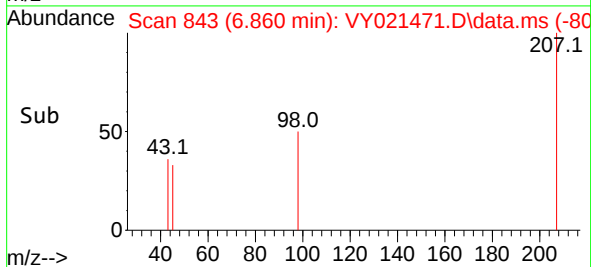
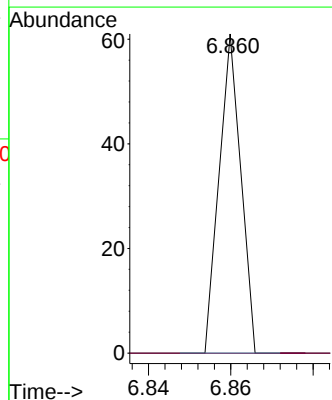
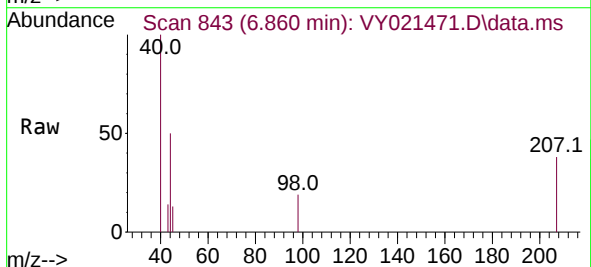
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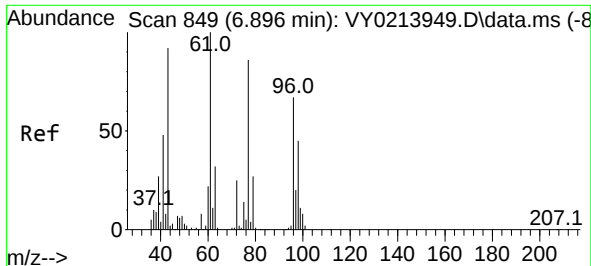
Tgt Ion: 43 Resp: 22

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#

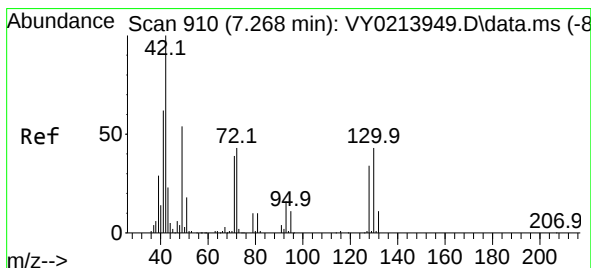
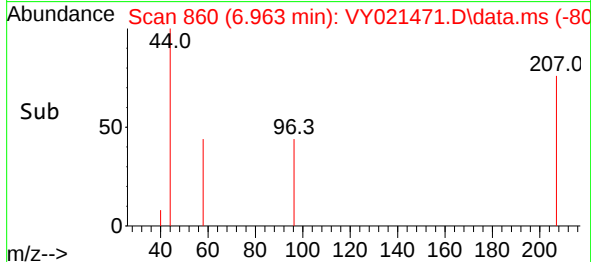
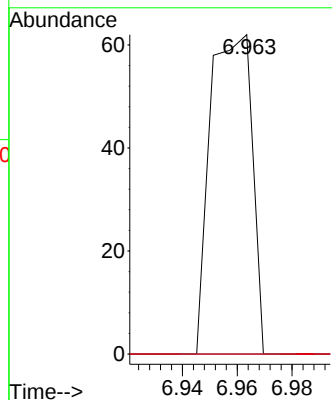
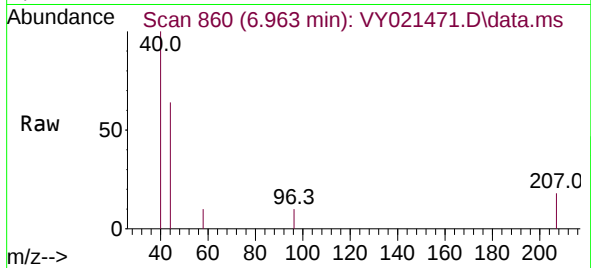




#27
 cis-1,2-Dichloroethene
 Concen: 1.360 ug/l
 RT: 6.963 min Scan# 80
 Delta R.T. 0.067 min
 Lab File: VY021471.D
 Acq: 07 Mar 2025 19:09

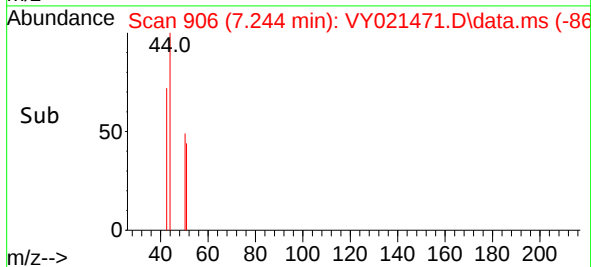
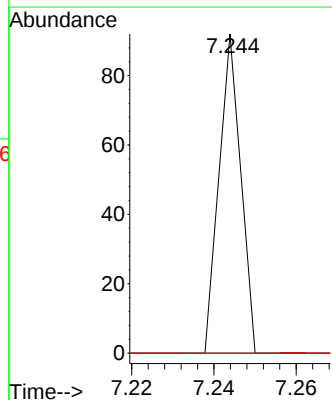
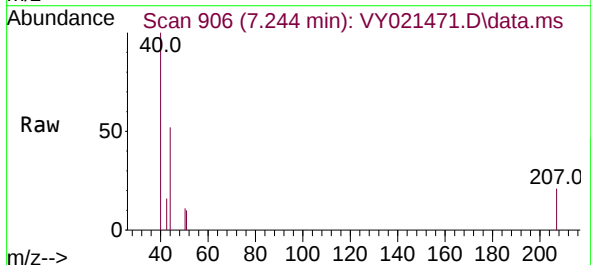
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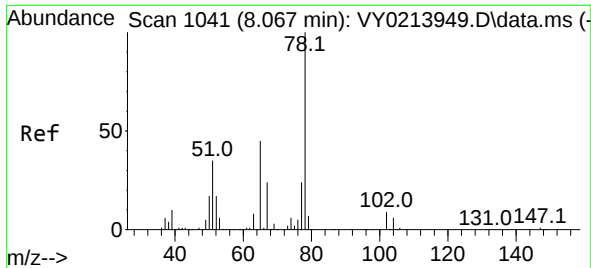
Tgt Ion: 96 Resp: 65
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 300.8
 98 0.0 0.0 130.0



#29
 Tetrahydrofuran
 Concen: 4.723 ug/l
 RT: 7.244 min Scan# 906
 Delta R.T. -0.024 min
 Lab File: VY021471.D
 Acq: 07 Mar 2025 19:09

Tgt Ion: 42 Resp: 34
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.8 52.2#
 71 0.0 32.6 48.8#

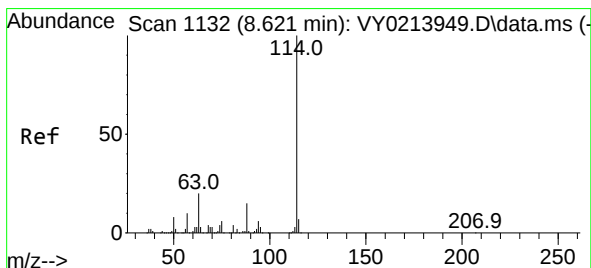
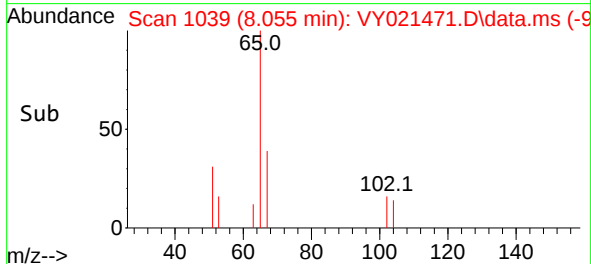
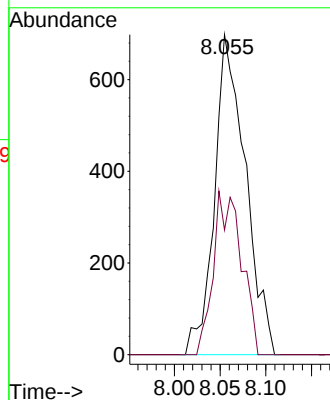
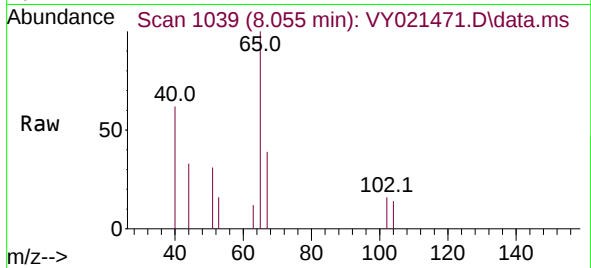




#33
 1,2-Dichloroethane-d4
 Concen: 42.507 ug/l
 RT: 8.055 min Scan# 1041
 Delta R.T. -0.012 min
 Lab File: VY021471.D
 Acq: 07 Mar 2025 19:09

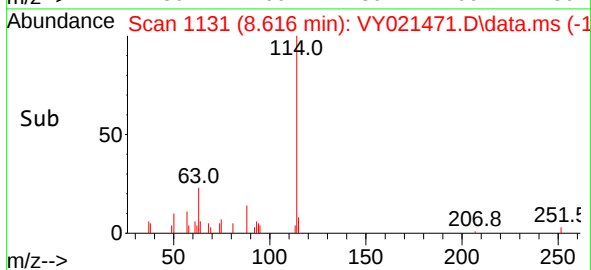
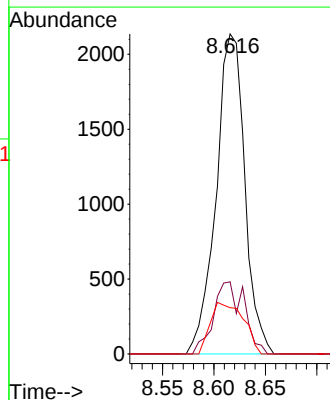
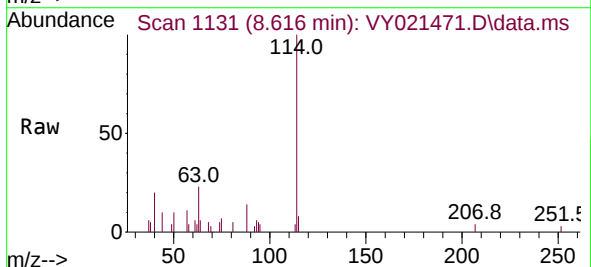
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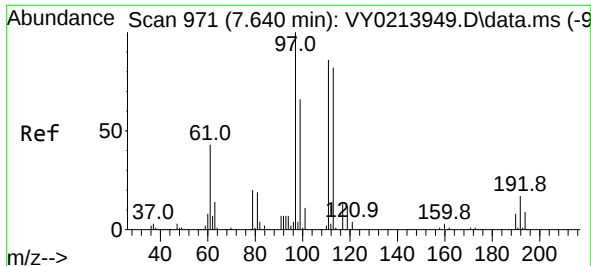
Tgt Ion: 65 Resp: 1643
 Ion Ratio Lower Upper
 65 100
 67 46.1 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.616 min Scan# 1131
 Delta R.T. -0.006 min
 Lab File: VY021471.D
 Acq: 07 Mar 2025 19:09

Tgt Ion:114 Resp: 4145
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 40.8
 88 14.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.164 ug/l

RT: 7.628 min Scan# 9

Delta R.T. -0.012 min

Lab File: VY021471.D

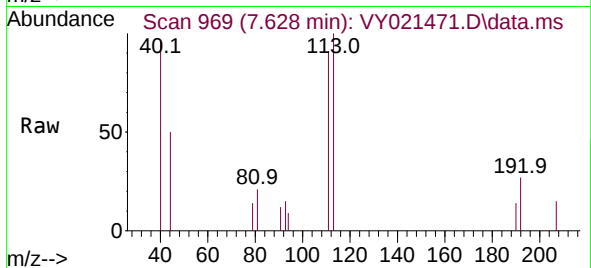
Acq: 07 Mar 2025 19:09

Instrument :

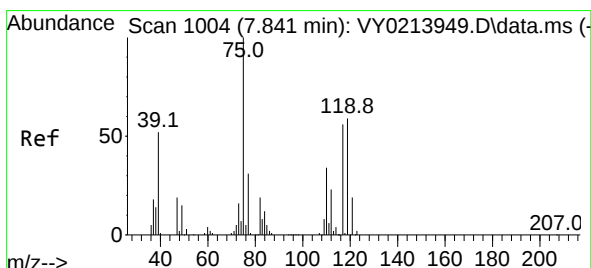
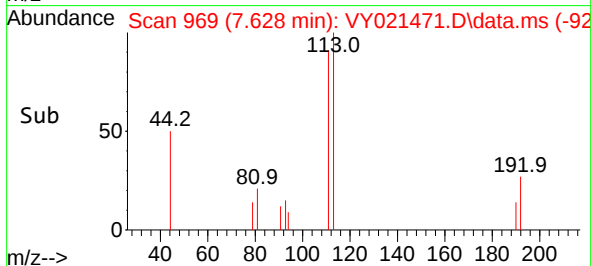
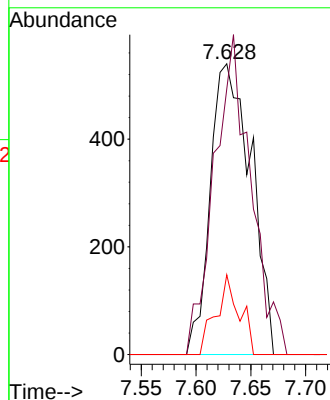
MSVOA_Y

ClientSampleId :

CLAY-SLUDGE-DRUMS



Tgt Ion:	113	Resp:	1394
Ion	Ratio	Lower	Upper
113	100		
111	98.7	82.0	123.0
192	15.7	15.9	23.9#



#36

1,1-Dichloropropene

Concen: 8.793 ug/l

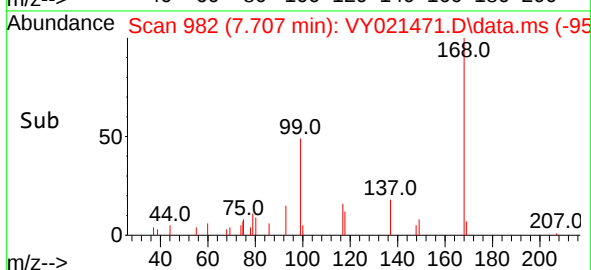
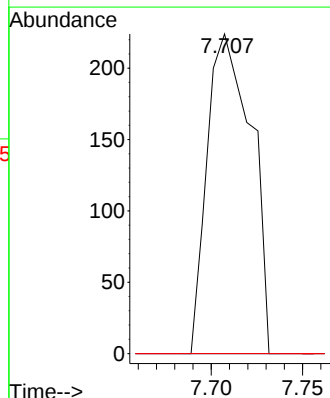
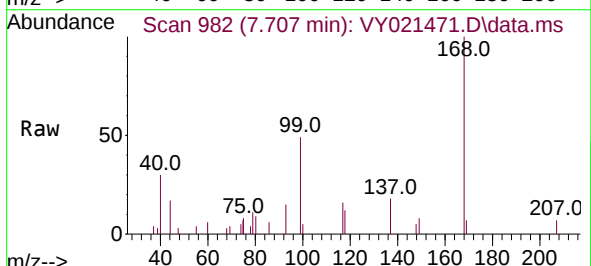
RT: 7.707 min Scan# 982

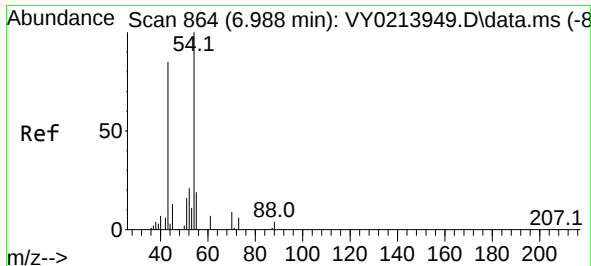
Delta R.T. -0.134 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

Tgt Ion:	75	Resp:	375
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.3	51.7#
77	0.0	25.4	38.2#





#37

Ethyl Acetate

Concen: 1.061 ug/l

RT: 6.945 min Scan# 81

Delta R.T. -0.042 min

Lab File: VY021471.D

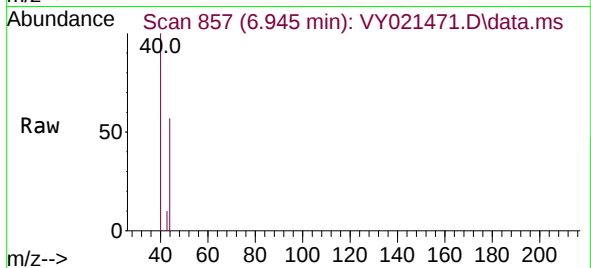
Acq: 07 Mar 2025 19:09

Instrument :

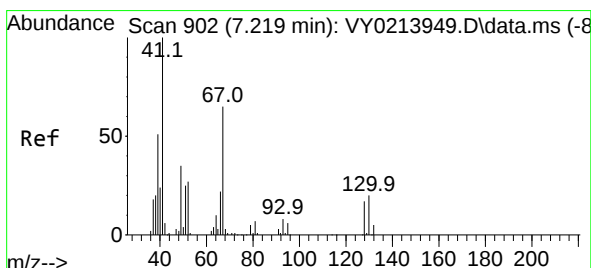
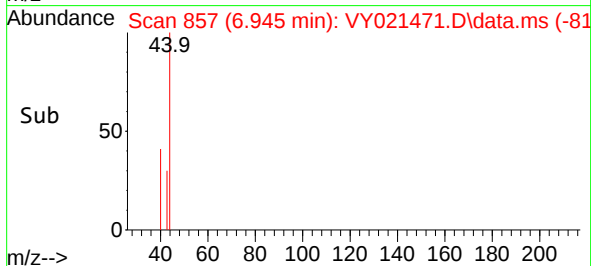
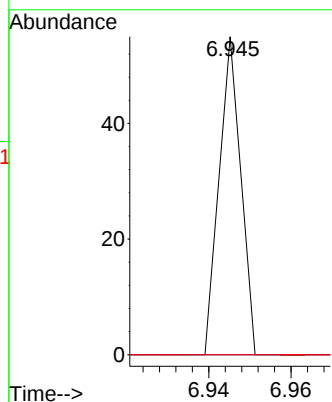
MSVOA_Y

ClientSampleId :

CLAY-SLUDGE-DRUMS



Tgt Ion:	43	Resp:	20
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	0.0	8.2	12.2#



#41

Methacrylonitrile

Concen: 2.143 ug/l

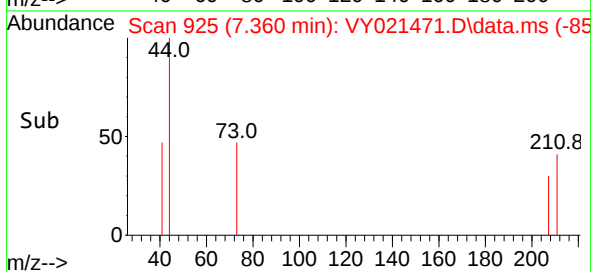
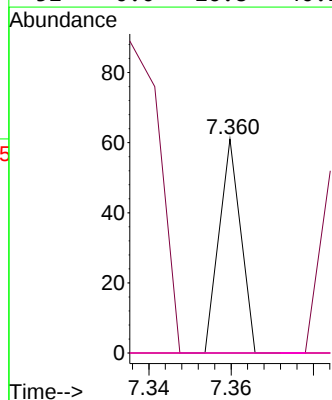
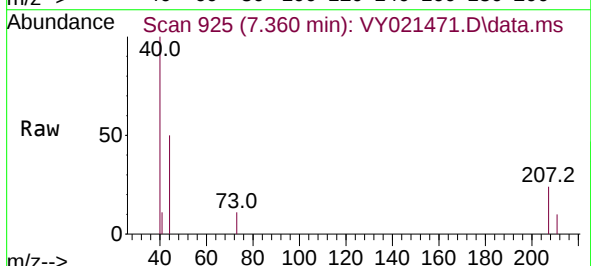
RT: 7.360 min Scan# 925

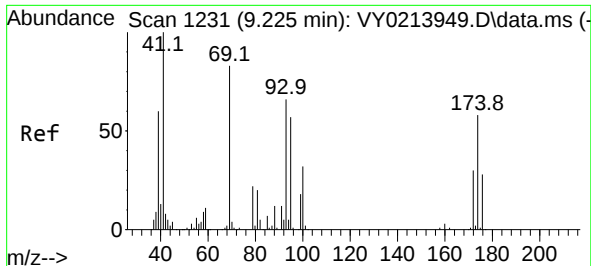
Delta R.T. 0.141 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

Tgt Ion:	41	Resp:	22
Ion	Ratio	Lower	Upper
41	100		
39	0.0	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#





#48

Methyl methacrylate

Concen: 5.594 ug/l

RT: 9.164 min Scan# 11

Delta R.T. -0.061 min

Lab File: VY021471.D

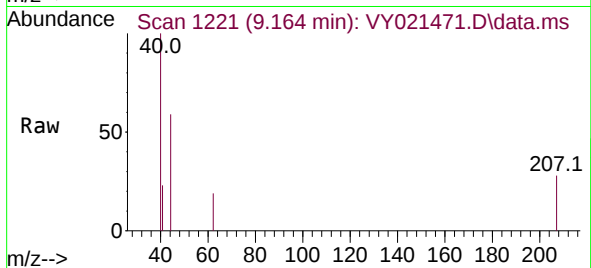
Acq: 07 Mar 2025 19:09

Instrument :

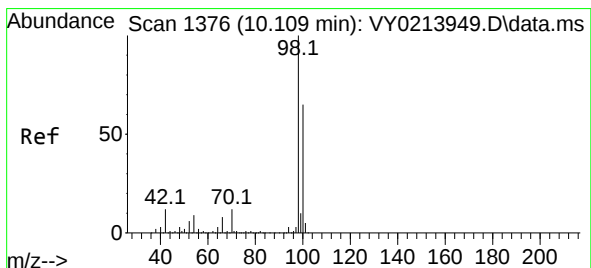
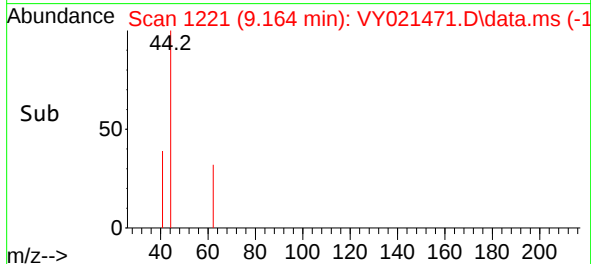
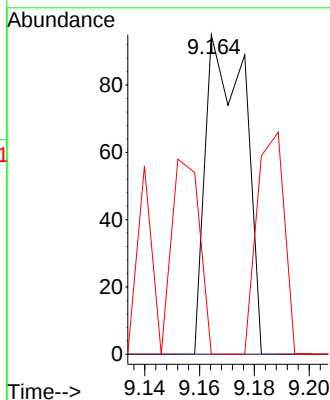
MSVOA_Y

ClientSampleId :

CLAY-SLUDGE-DRUMS



Tgt Ion:	41	Resp:	94
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.8	101.8#
39	64.9	46.4	69.6



#50

Toluene-d8

Concen: 39.637 ug/l

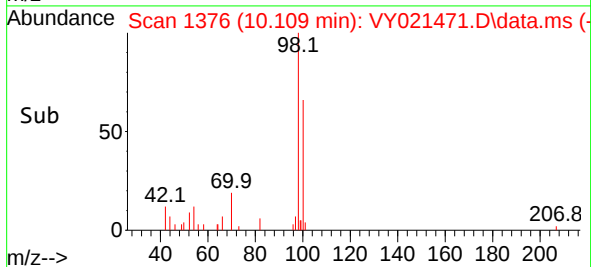
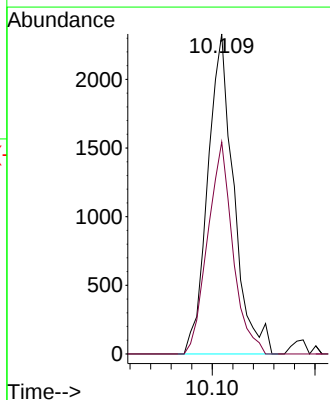
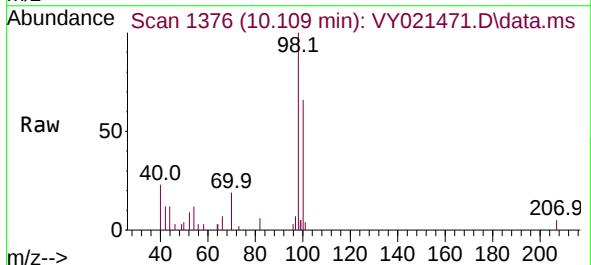
RT: 10.109 min Scan# 1376

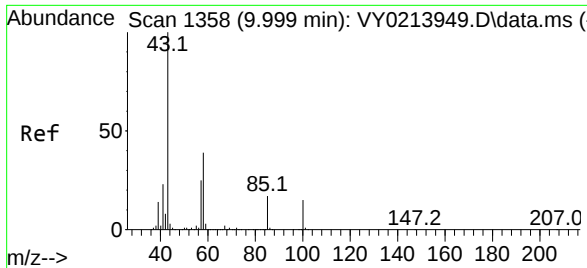
Delta R.T. 0.000 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

Tgt Ion:	98	Resp:	4089
Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1

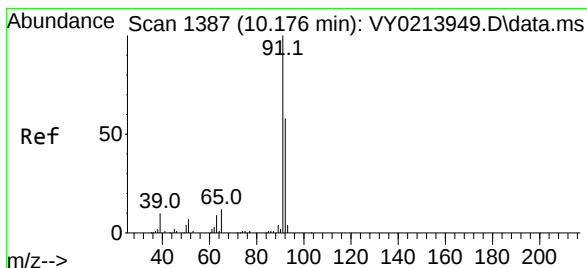
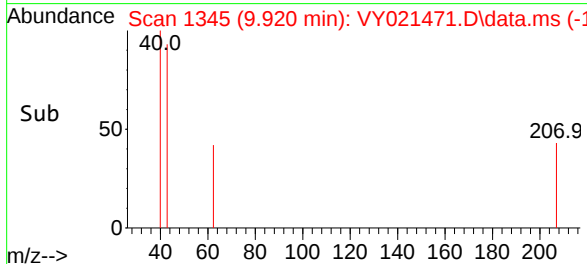
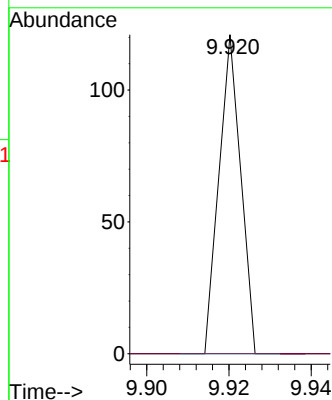
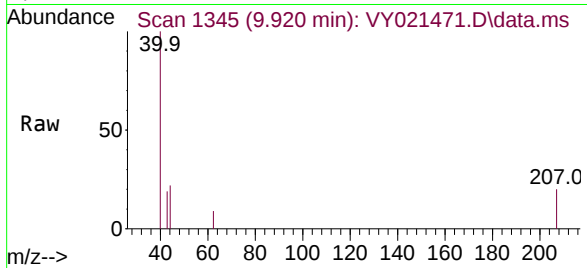




#51
4-Methyl-2-Pentanone
Concen: 2.330 ug/l
RT: 9.920 min Scan# 11
Delta R.T. -0.079 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

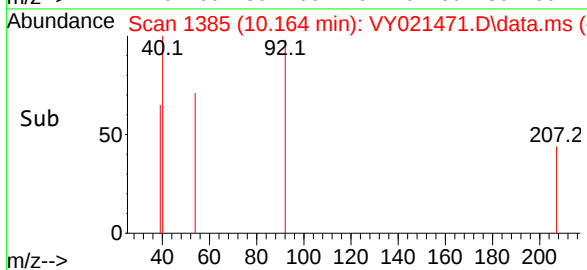
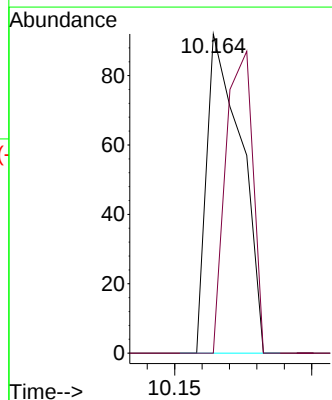
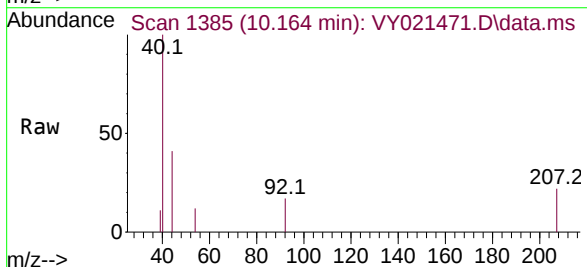
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

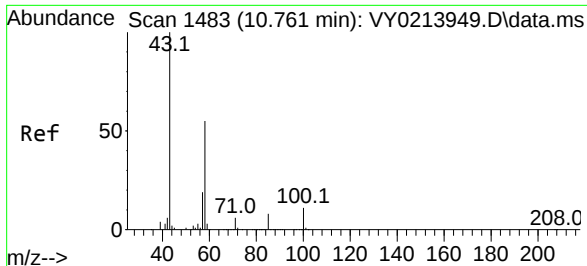
Tgt Ion: 43 Resp: 44
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#52
Toluene
Concen: 1.010 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 92 Resp: 80
Ion Ratio Lower Upper
92 100
91 75.0 138.2 207.2#

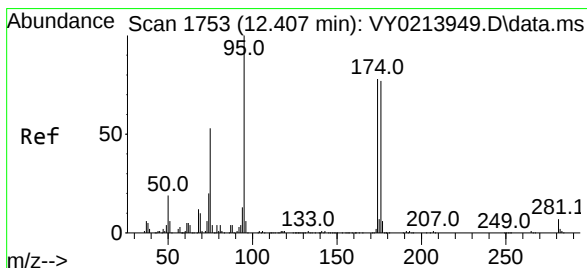
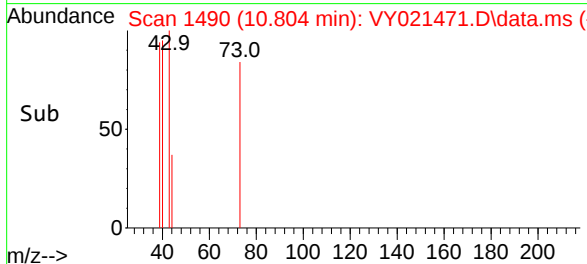
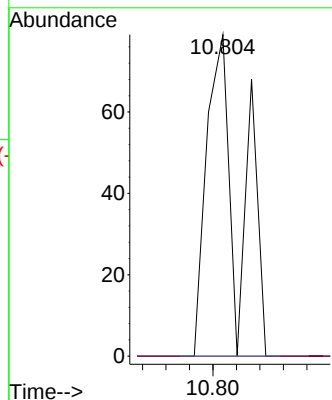
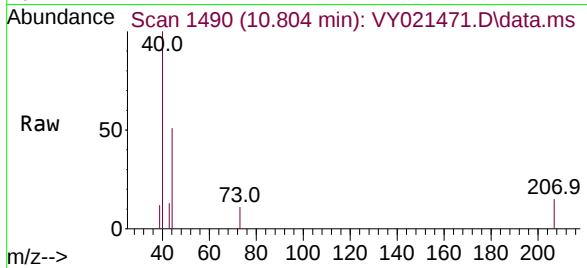




#59
2-Hexanone
Concen: 6.088 ug/l
RT: 10.804 min Scan# 1483
Delta R.T. 0.043 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

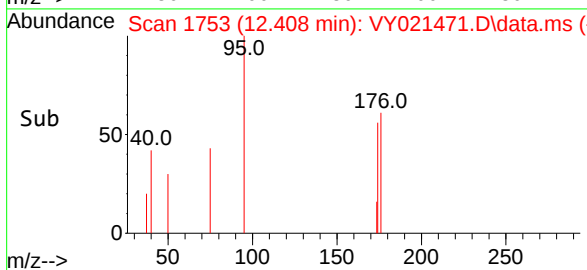
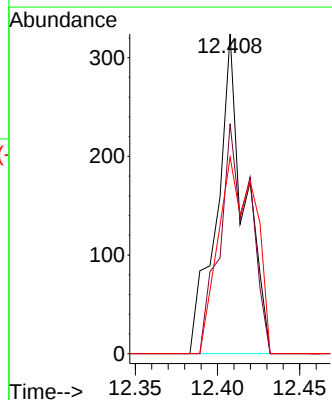
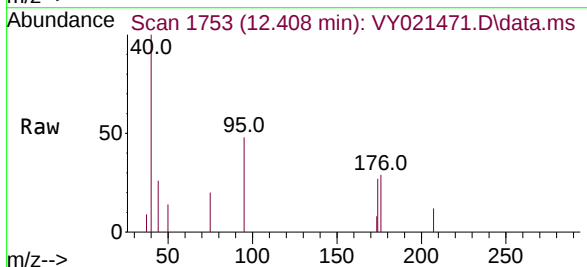
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

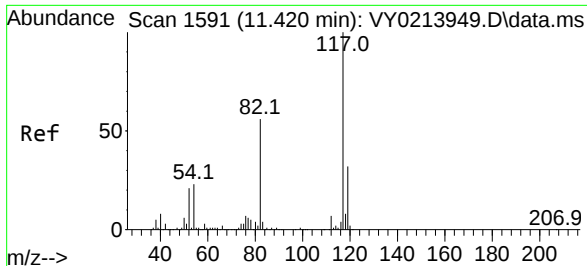
Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 10.857 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 95 Resp: 381
Ion Ratio Lower Upper
95 100
174 76.4 0.0 165.0
176 80.8 0.0 160.0

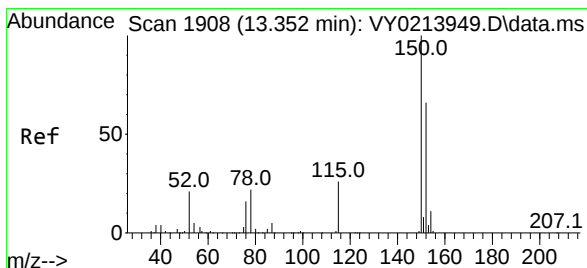
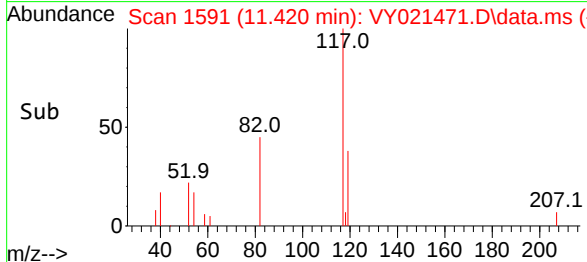
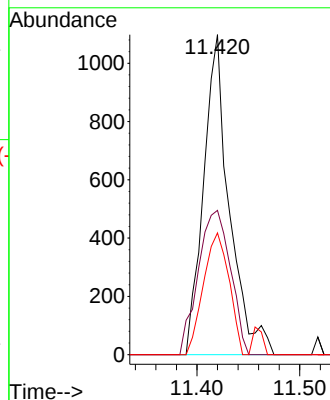
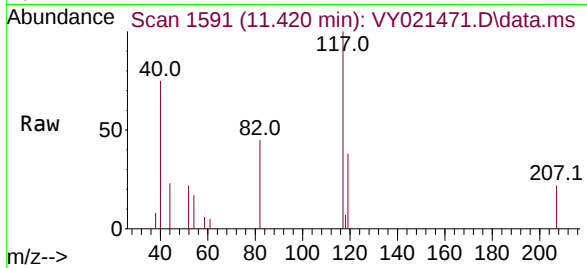




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

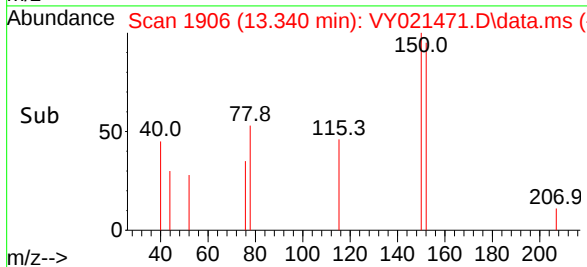
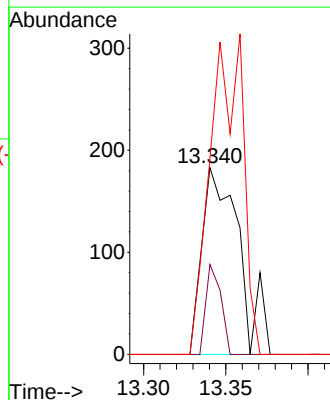
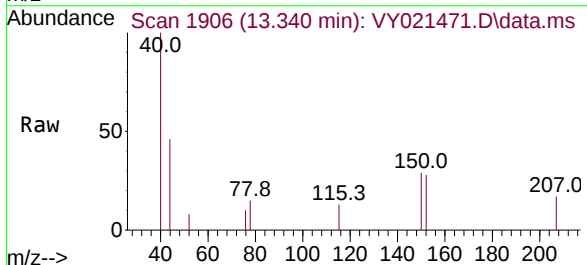
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

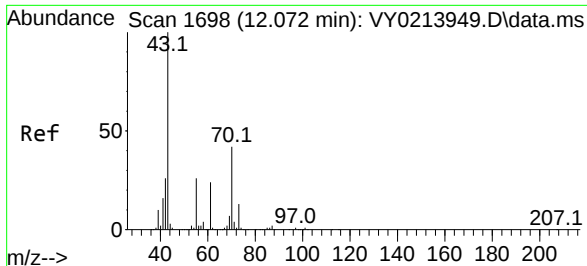
Tgt Ion:117	Resp:	1911
Ion Ratio	Lower	Upper
117	100	
82	45.1	44.6 67.0
119	38.1	25.4 38.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.012 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion:152	Resp:	287
Ion Ratio	Lower	Upper
152	100	
115	19.2	29.0 87.0#
150	150.2	0.0 347.2

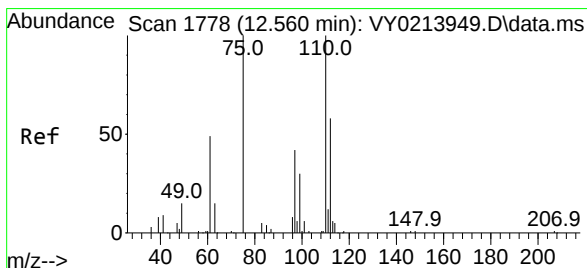
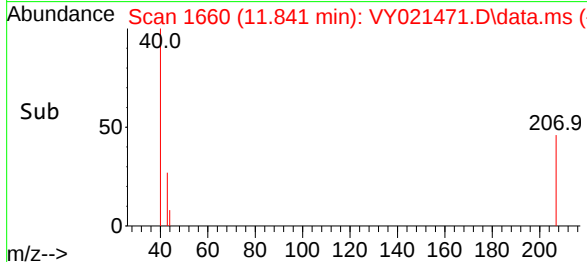
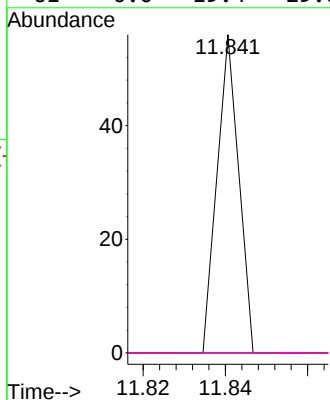
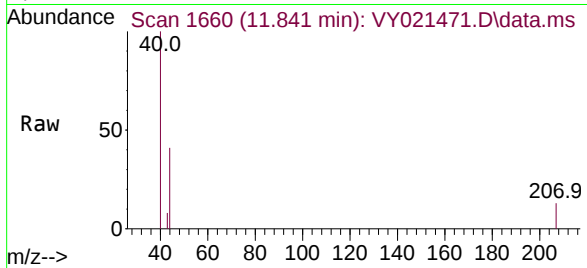




#74
N-amy1 acetate
Concen: 4.073 ug/l
RT: 11.841 min Scan# 1798
Delta R.T. -0.231 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

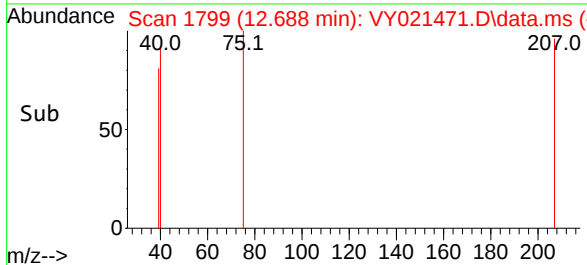
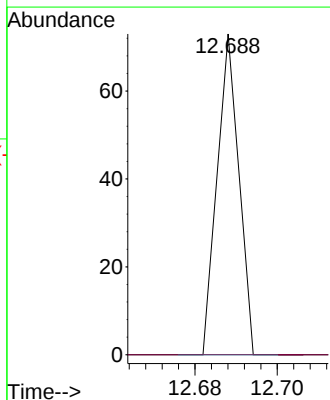
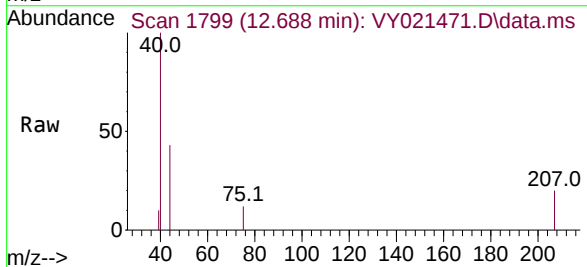
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

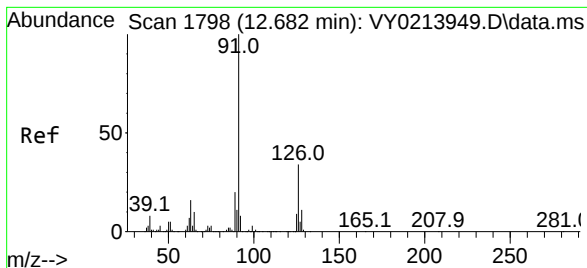
Tgt Ion:	43	Resp:	20
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.6	51.8#
55	0.0	21.1	31.7#
61	0.0	19.4	29.0#



#76
1,2,3-Trichloropropane
Concen: 9.336 ug/l
RT: 12.688 min Scan# 1799
Delta R.T. 0.128 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion:	75	Resp:	27
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#79

2-Chlorotoluene

Concen: 1.401 ug/l

RT: 12.731 min Scan# 11

Delta R.T. 0.049 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

Instrument :

MSVOA_Y

ClientSampleId :

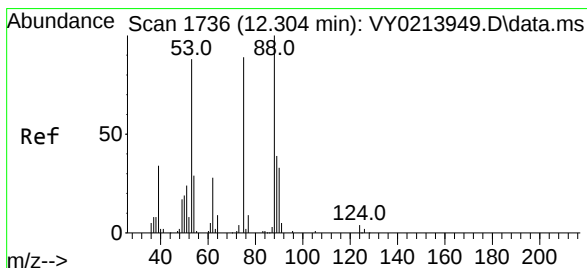
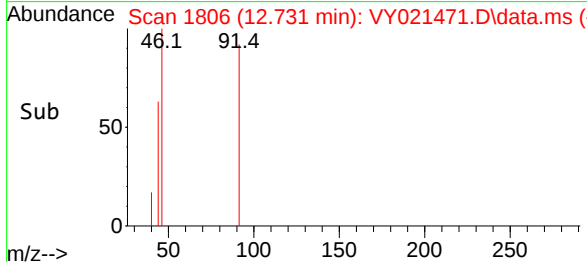
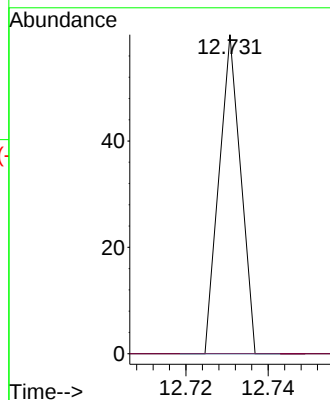
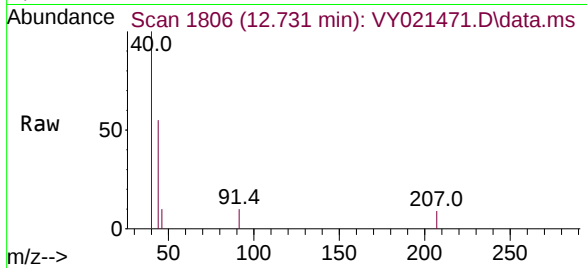
CLAY-SLUDGE-DRUMS

Tgt Ion: 91 Resp: 22

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 118.694 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021471.D

Acq: 07 Mar 2025 19:09

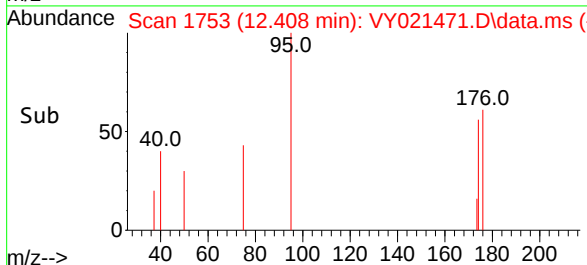
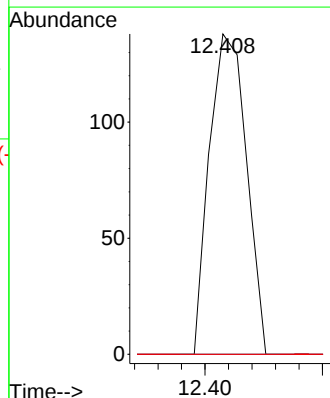
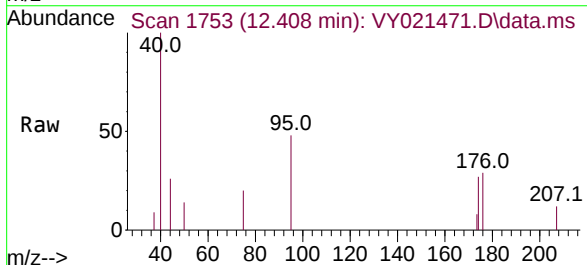
Tgt Ion: 75 Resp: 151

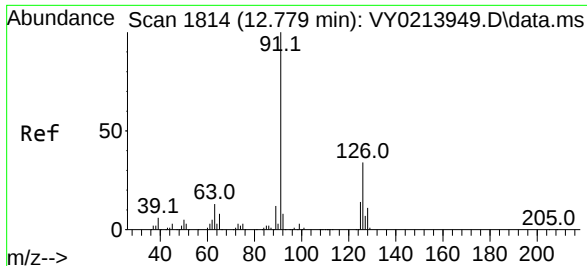
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.9 55.3#

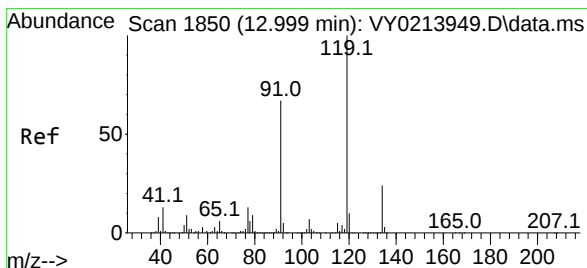
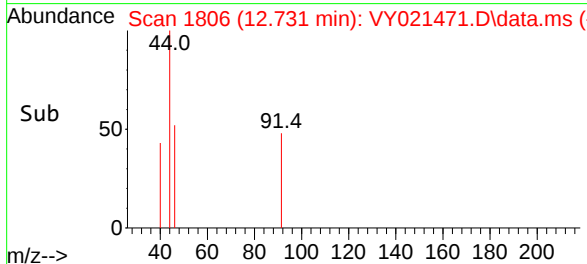
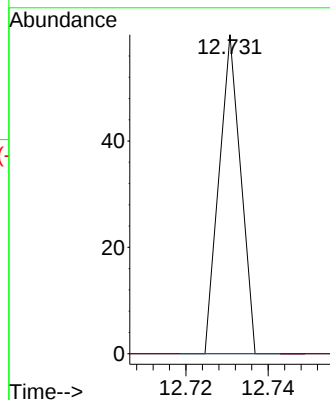
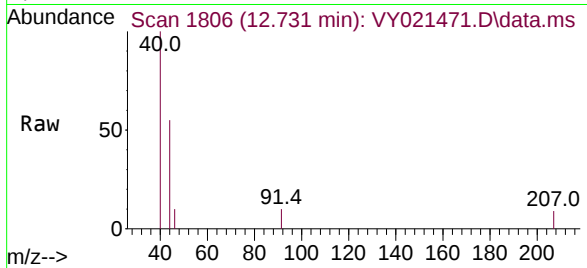




#82
4-Chlorotoluene
Concen: 1.353 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.048 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

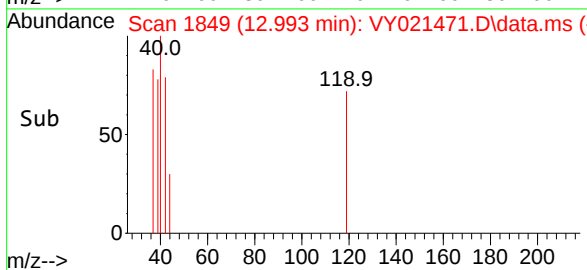
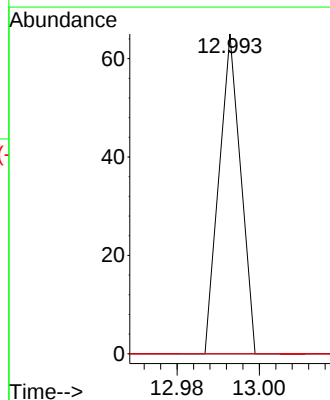
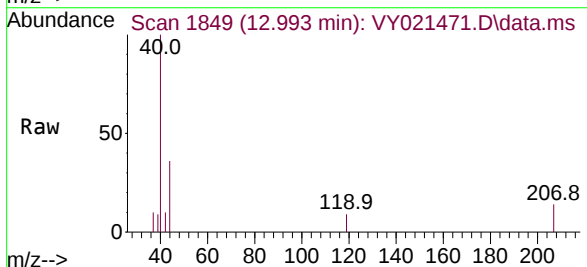
Instrument :
MSVOA_Y
ClientSampleId :
CLAY-SLUDGE-DRUMS

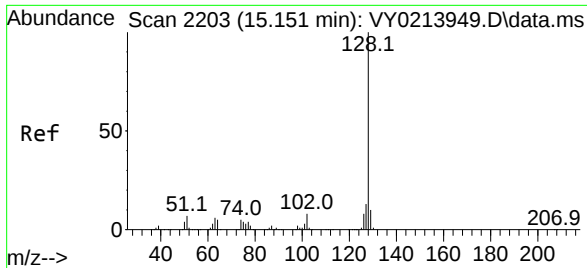
Tgt Ion: 91 Resp: 22
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#83
tert-Butylbenzene
Concen: 1.464 ug/l
RT: 12.993 min Scan# 1849
Delta R.T. -0.006 min
Lab File: VY021471.D
Acq: 07 Mar 2025 19:09

Tgt Ion: 119 Resp: 24
Ion Ratio Lower Upper
119 100
91 0.0 33.2 99.6#
134 0.0 13.5 40.5#





#95

Naphthalene

Concen: 4.265 ug/l

RT: 15.230 min Scan# 21

Delta R.T. 0.079 min

Lab File: VY021471.D

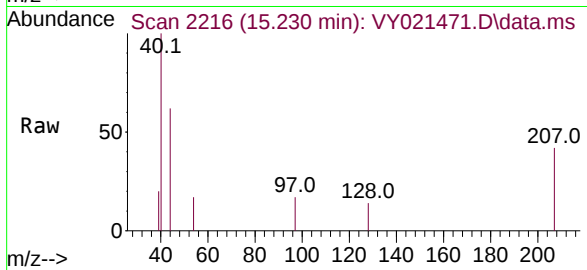
Acq: 07 Mar 2025 19:09

Instrument :

MSVOA_Y

ClientSampleId :

CLAY-SLUDGE-DRUMS



Tgt Ion:	128	Resp:	22
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	13.0#

