

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
 Data File : VY023953.D
 Acq On : 11 Dec 2025 14:31
 Operator : SY/MD
 Sample : Q3809-07RE
 Misc : 2.54g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-3RE

Quant Time: Dec 12 03:23:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

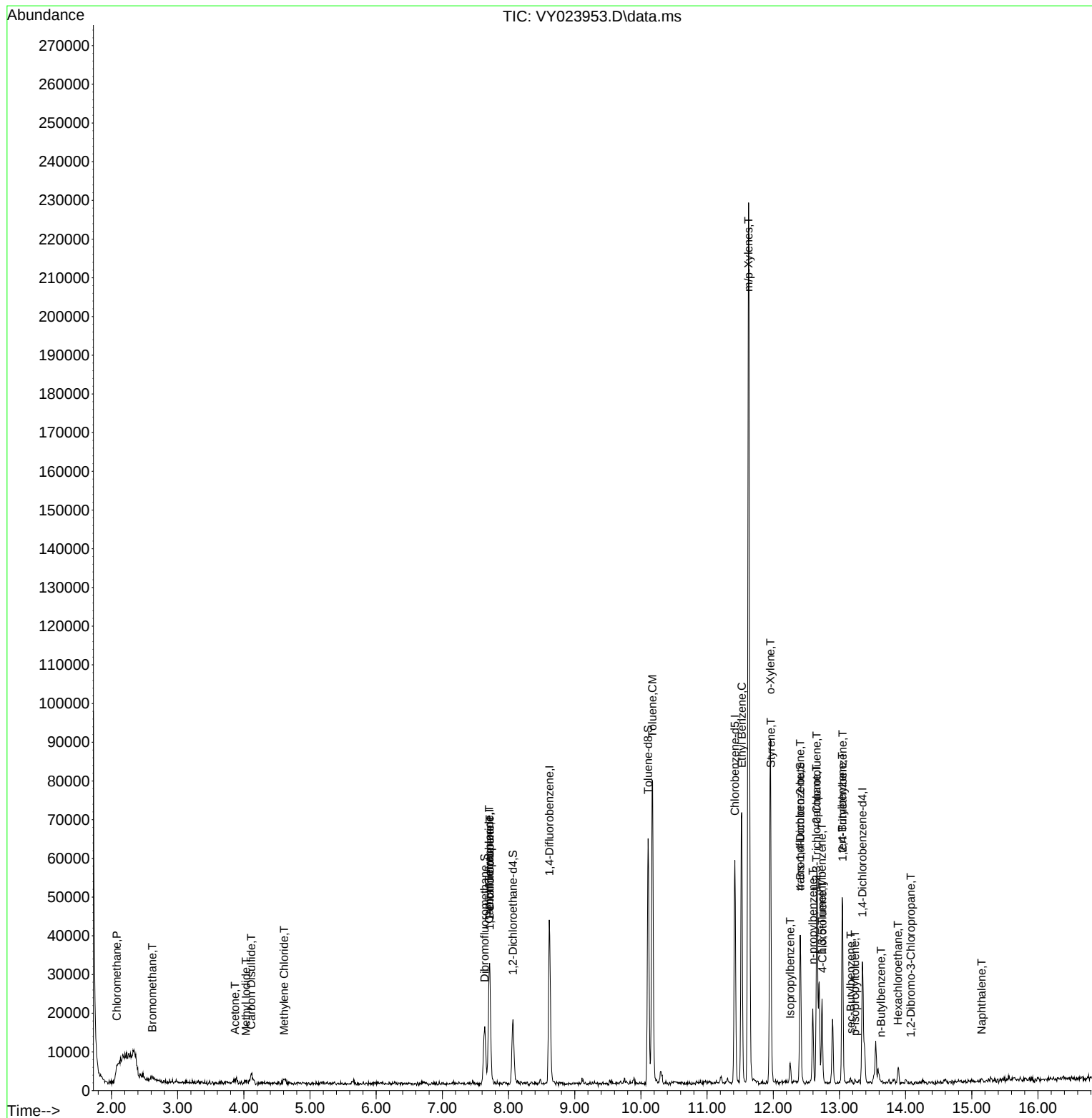
Internal Standards						
1) Pentafluorobenzene	7.713	168	26038	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	36622	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	32863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	8372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	12634	54.879	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.760%			
35) Dibromofluoromethane	7.640	113	11003	45.962	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.920%			
50) Toluene-d8	10.109	98	42139	47.279	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.560%			
62) 4-Bromofluorobenzene	12.407	95	11093	37.268	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 74.540%			
Target Compounds					Qvalue	
3) Chloromethane	2.080	50	535	2.306	ug/l #	74
5) Bromomethane	2.617	94	962	3.942	ug/l	88
10) Methyl Iodide	4.031	142	664	2.062	ug/l #	41
16) Acetone	3.866	43	2046	2.120	ug/l	89
17) Carbon Disulfide	4.110	76	5022	8.003	ug/l	97
20) Methylene Chloride	4.610	84	590	2.178	ug/l #	61
36) 1,1-Dichloropropene	7.719	75	2119	6.502	ug/l #	42
38) Carbon Tetrachloride	7.707	117	2450	6.202	ug/l #	17
52) Toluene	10.176	92	34562	52.626	ug/l	96
67) Ethyl Benzene	11.523	91	47397	37.148	ug/l	99
68) m/p-Xylenes	11.627	106	71704	141.570	ug/l	100
69) o-Xylene	11.956	106	24430	51.562	ug/l	99
70) Styrene	11.962	104	1801	2.353	ug/l #	1
73) Isopropylbenzene	12.255	105	2988	4.884	ug/l	83
76) 1,2,3-Trichloropropane	12.651	75	373	5.267	ug/l #	100
78) n-propylbenzene	12.596	91	12407	17.429	ug/l	97
79) 2-Chlorotoluene	12.657	91	4492	11.109	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.737	105	9466	19.393	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.407	75	5784	185.909	ug/l #	12
82) 4-Chlorotoluene	12.743	91	1261	3.029	ug/l #	39
83) tert-Butylbenzene	13.041	119	3438	7.623	ug/l #	55
84) 1,2,4-Trimethylbenzene	13.048	105	25266	52.252	ug/l	98
85) sec-Butylbenzene	13.170	105	951	1.446	ug/l #	67
86) p-Isopropyltoluene	13.237	119	682	1.225	ug/l	95
89) n-Butylbenzene	13.627	91	631	1.295	ug/l #	63
90) Hexachloroethane	13.883	117	157	1.382	ug/l #	7
92) 1,2-Dibromo-3-Chloropr...	14.078	75	49	3.397	ug/l #	1
95) Naphthalene	15.151	128	653	2.813	ug/l #	70

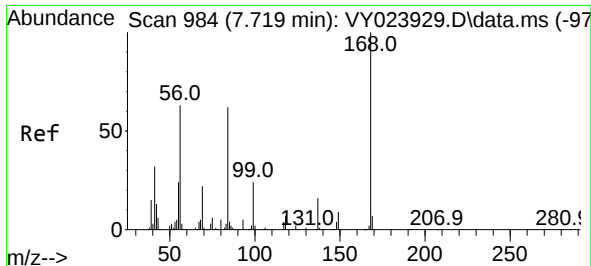
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
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Misc : 2.54g/5.0mL/MSVOA_Y/SOIL
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QLast Update : Thu Dec 11 03:57:51 2025
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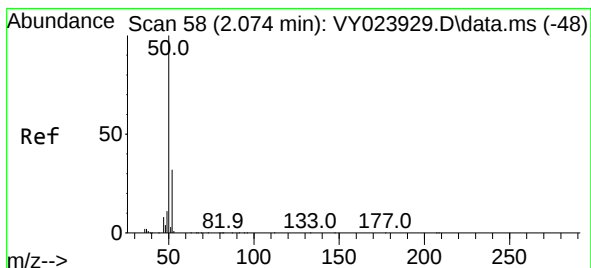
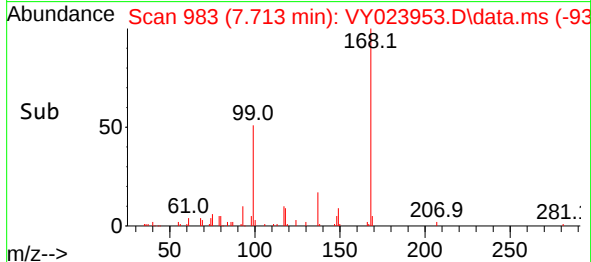
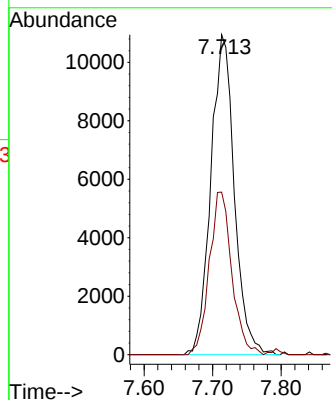
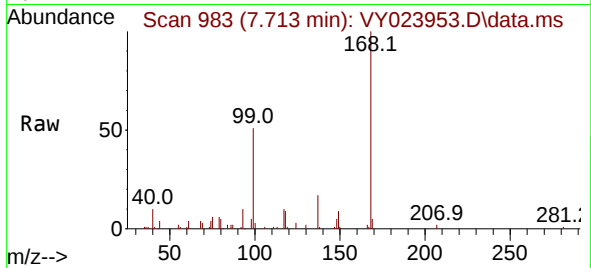




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

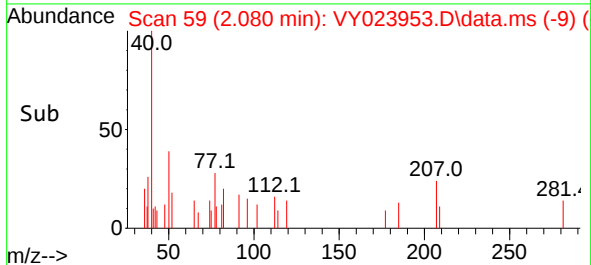
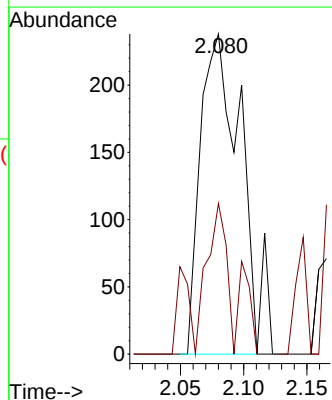
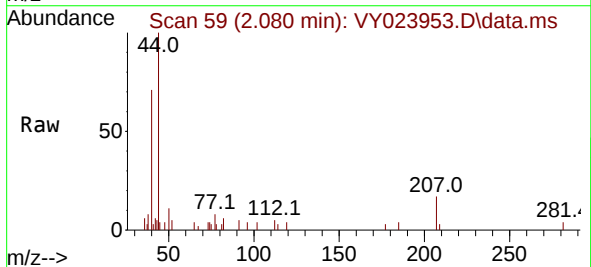
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

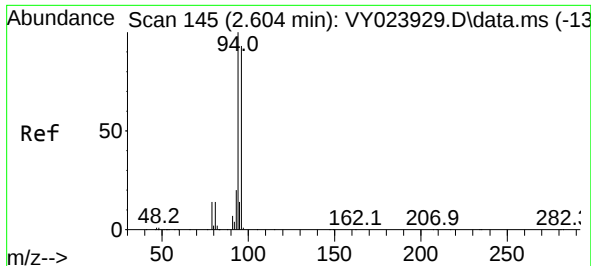
Tgt Ion:168 Resp: 26038
Ion Ratio Lower Upper
168 100
99 50.8 38.9 58.3



#3
Chloromethane
Concen: 2.306 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 50 Resp: 535
Ion Ratio Lower Upper
50 100
52 47.1 25.8 38.8#

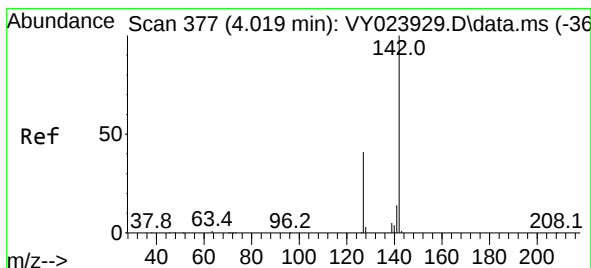
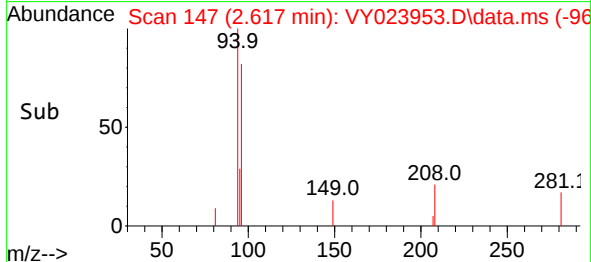
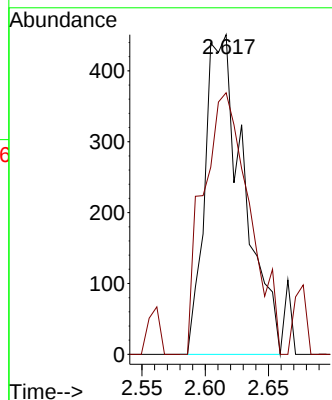
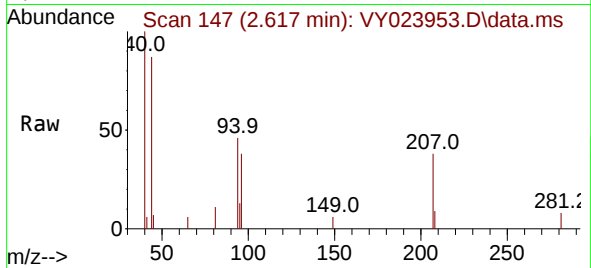




#5
Bromomethane
Concen: 3.942 ug/l
RT: 2.617 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

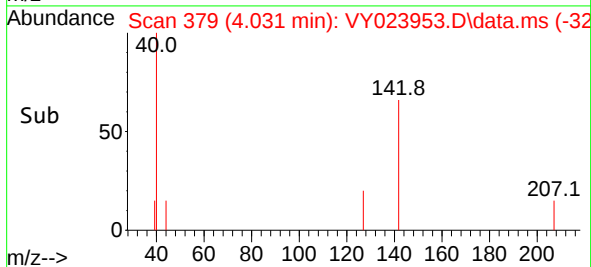
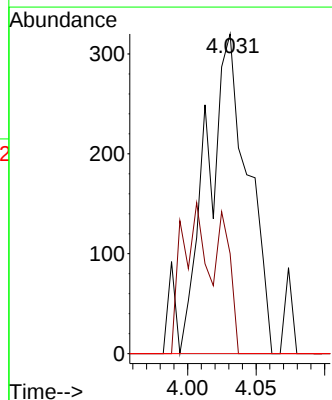
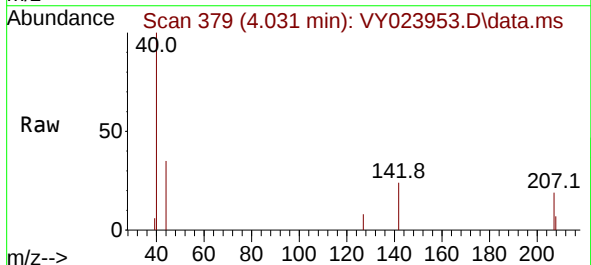
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

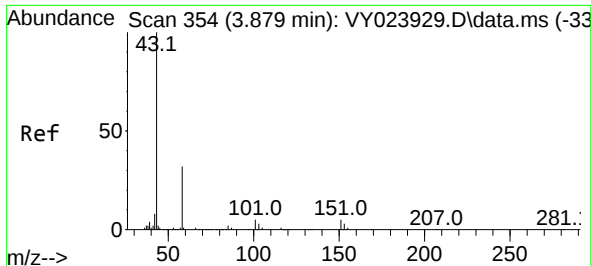
Tgt Ion: 94 Resp: 962
Ion Ratio Lower Upper
94 100
96 81.8 74.8 112.2



#10
Methyl Iodide
Concen: 2.062 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.012 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 142 Resp: 664
Ion Ratio Lower Upper
142 100
127 0.0 34.5 51.7#
141 0.0 11.5 17.3#

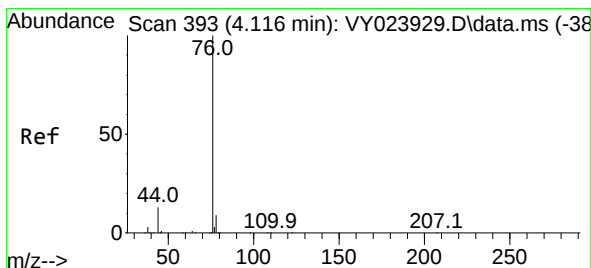
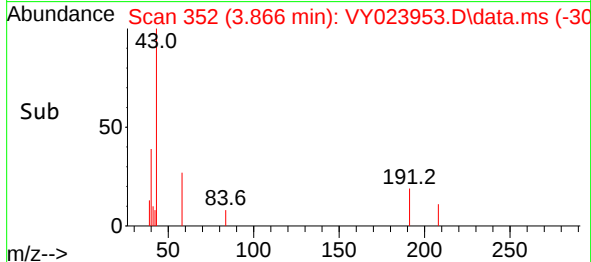
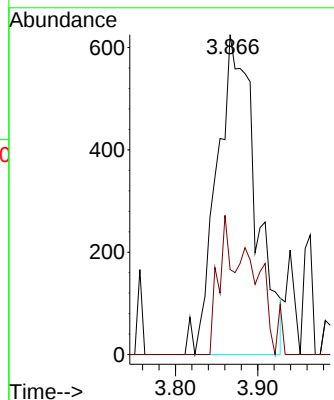
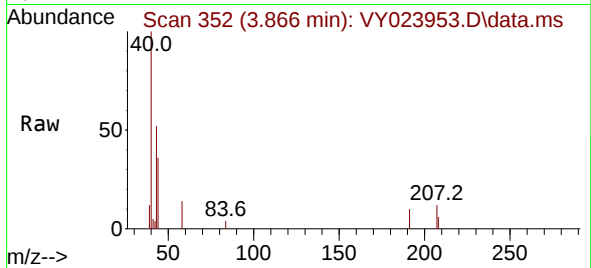




#16
Acetone
Concen: 2.120 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

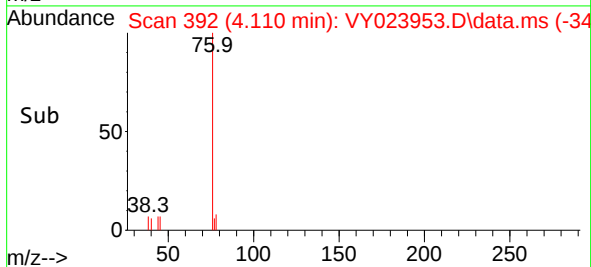
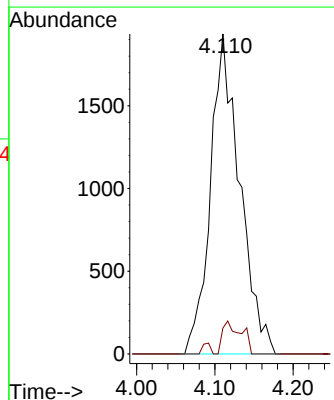
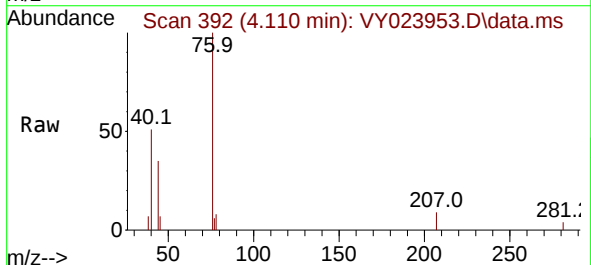
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

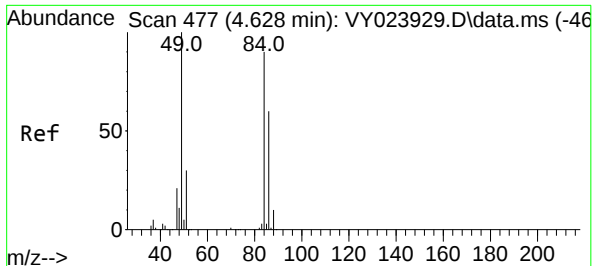
Tgt Ion: 43 Resp: 2046
Ion Ratio Lower Upper
43 100
58 26.6 26.4 39.6



#17
Carbon Disulfide
Concen: 8.003 ug/l
RT: 4.110 min Scan# 392
Delta R.T. -0.006 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 76 Resp: 5022
Ion Ratio Lower Upper
76 100
78 8.1 7.4 11.2

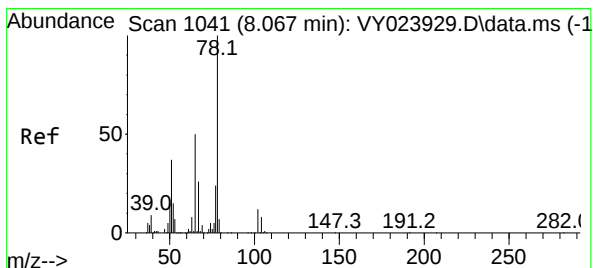
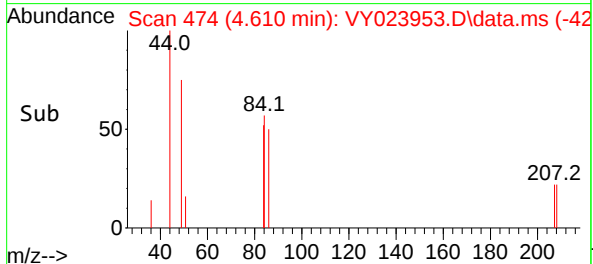
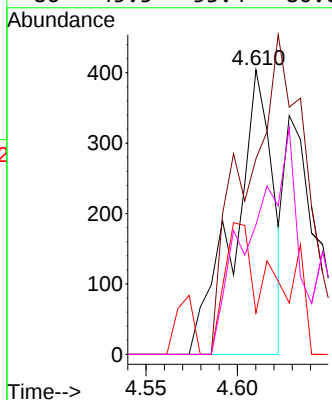
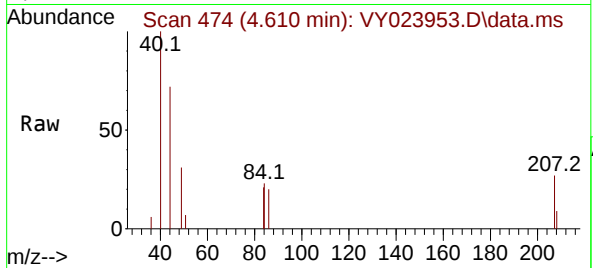




#20
Methylene Chloride
Concen: 2.178 ug/l
RT: 4.610 min Scan# 477
Delta R.T. -0.018 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

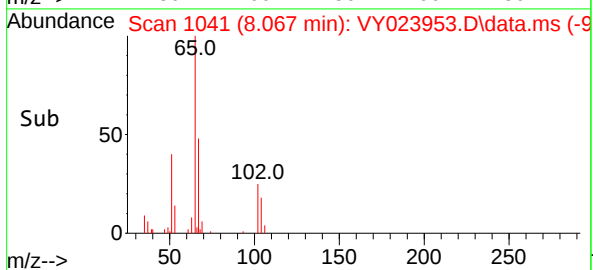
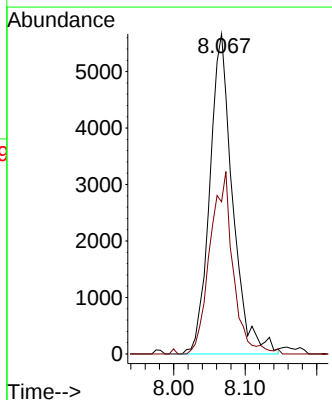
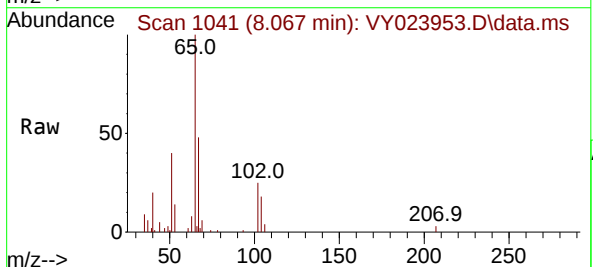
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

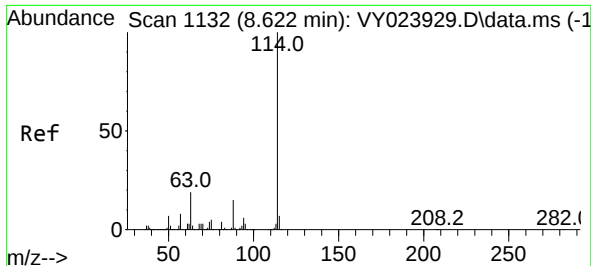
Tgt Ion: 84 Resp: 590
Ion Ratio Lower Upper
84 100
49 68.8 89.1 133.7#
51 0.0 26.6 39.8#
86 45.5 53.4 80.0#



#33
1,2-Dichloroethane-d4
Concen: 54.879 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 65 Resp: 12634
Ion Ratio Lower Upper
65 100
67 57.0 0.0 106.2

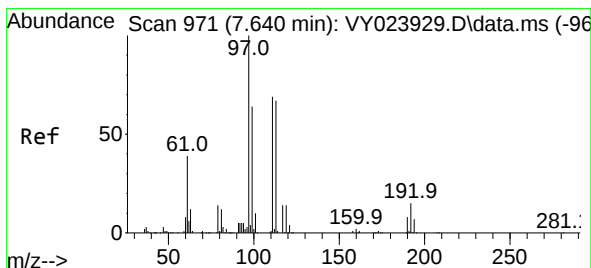
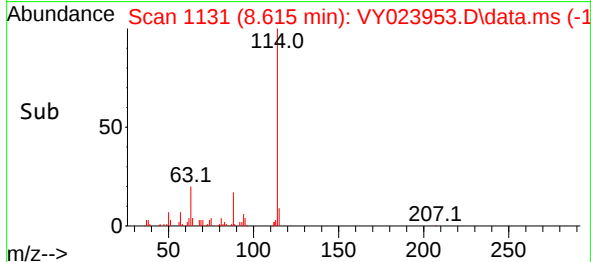
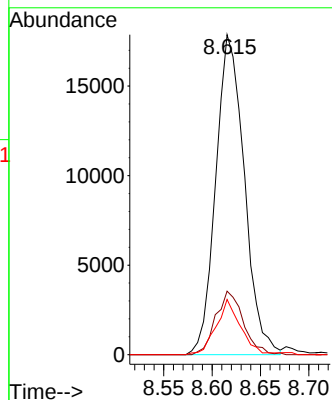
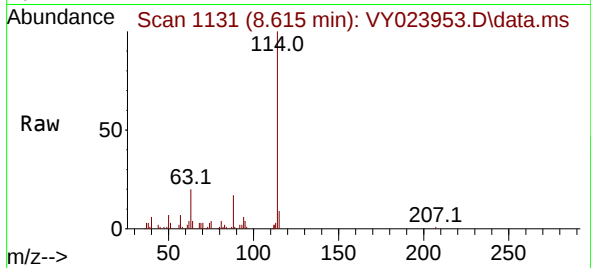




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

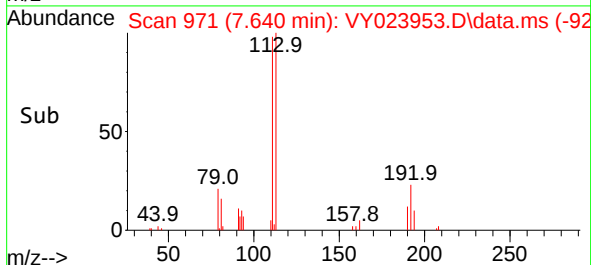
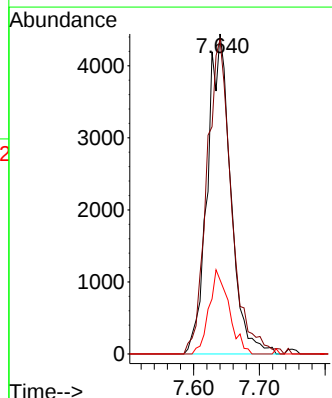
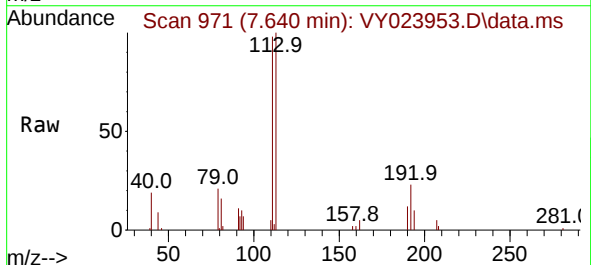
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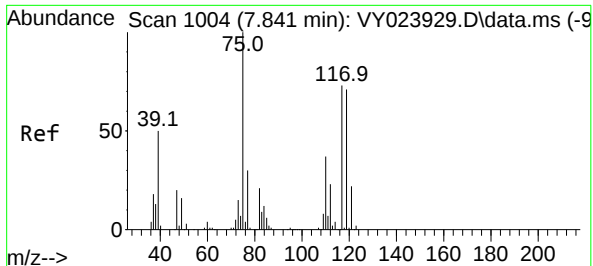
Tgt Ion:114 Resp: 36622
Ion Ratio Lower Upper
114 100
63 19.9 0.0 37.2
88 17.2 0.0 29.4



#35
Dibromofluoromethane
Concen: 45.962 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion:113 Resp: 11003
Ion Ratio Lower Upper
113 100
111 103.0 82.4 123.6
192 22.4 17.9 26.9

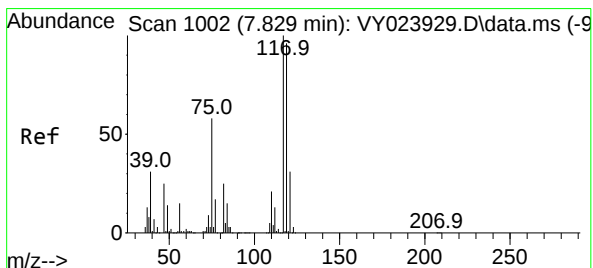
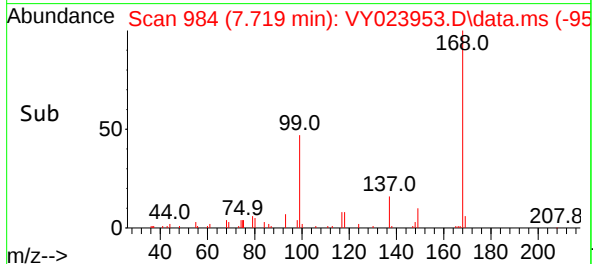
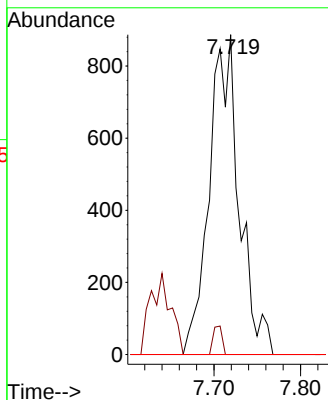
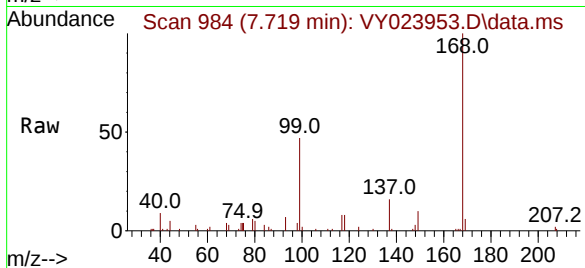




#36
1,1-Dichloropropene
Concen: 6.502 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY023953.D
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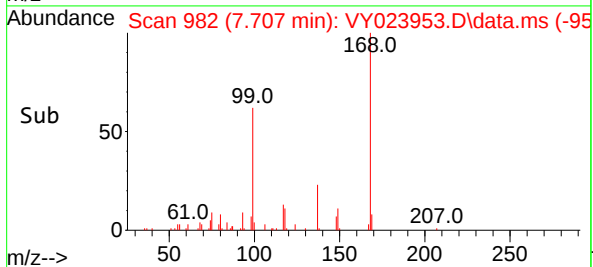
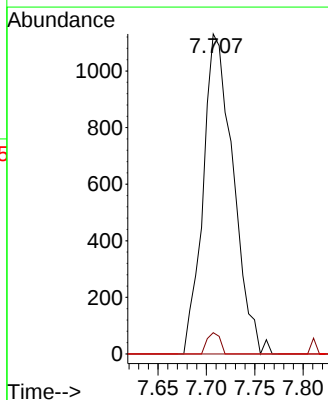
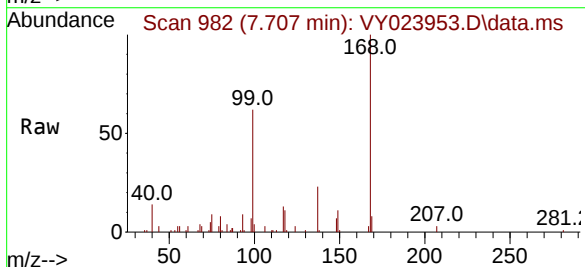
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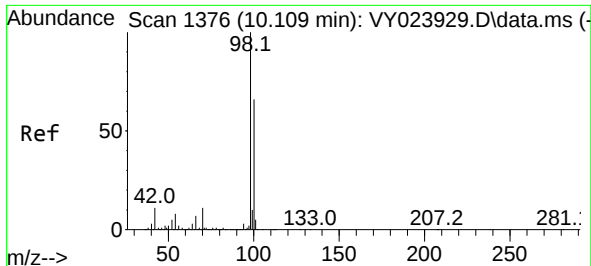
Tgt Ion: 75 Resp: 2119
Ion Ratio Lower Upper
75 100
110 2.7 19.2 57.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.202 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 117 Resp: 2450
Ion Ratio Lower Upper
117 100
119 6.6 76.6 114.8#
121 0.0 24.8 37.2#

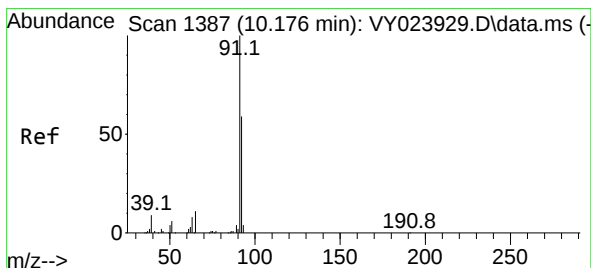
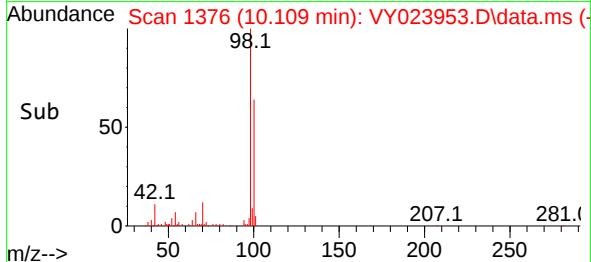
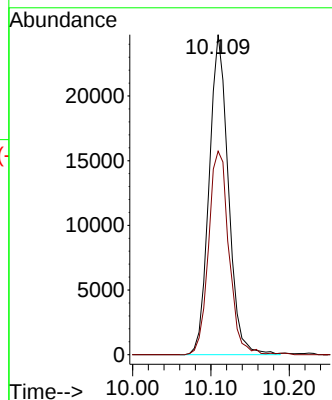
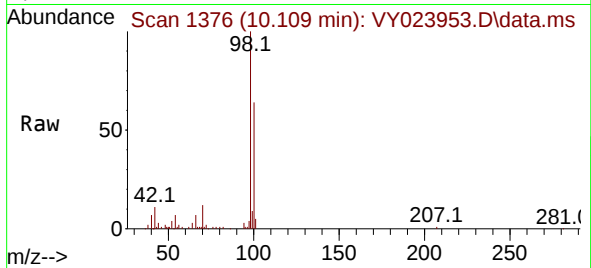




#50
Toluene-d8
Concen: 47.279 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

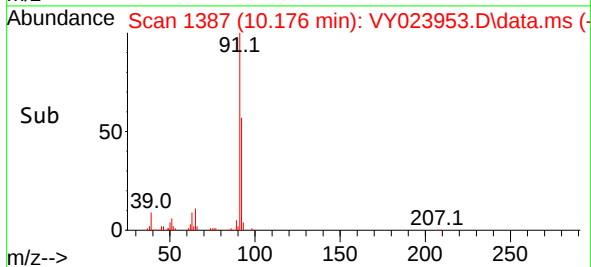
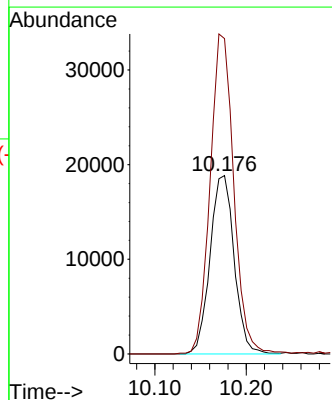
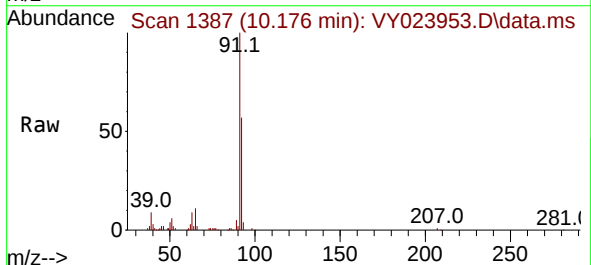
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

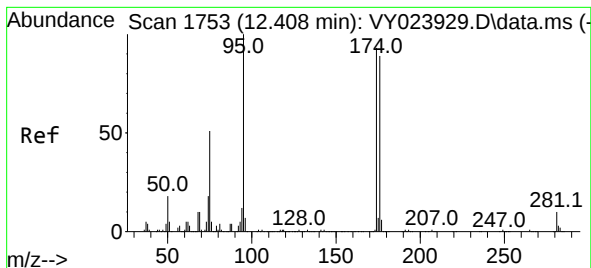
Tgt Ion: 98 Resp: 42139
Ion Ratio Lower Upper
98 100
100 67.1 52.8 79.2



#52
Toluene
Concen: 52.626 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 92 Resp: 34562
Ion Ratio Lower Upper
92 100
91 175.7 135.8 203.6

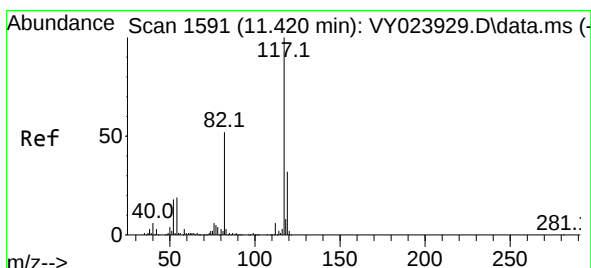
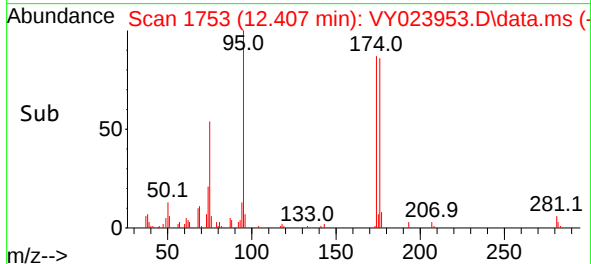
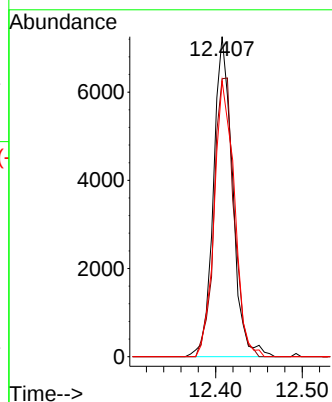
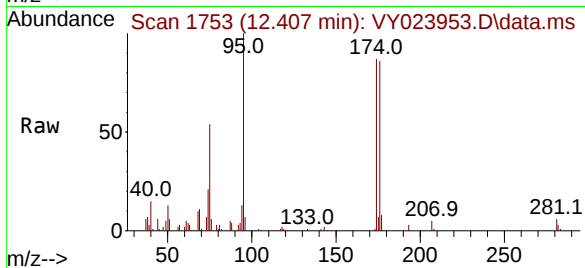




#62
4-Bromofluorobenzene
Concen: 37.268 ug/l
RT: 12.407 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

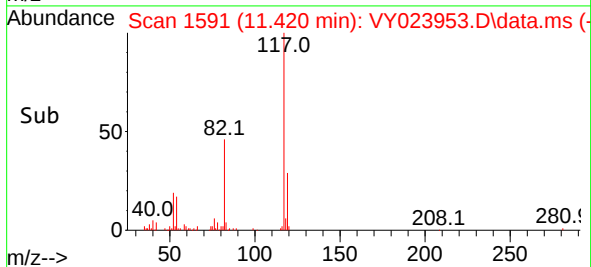
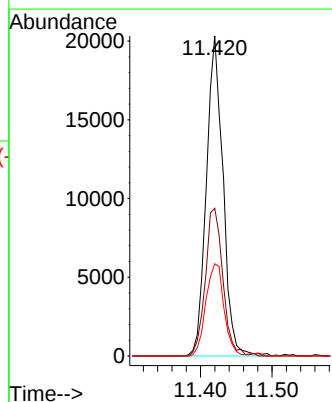
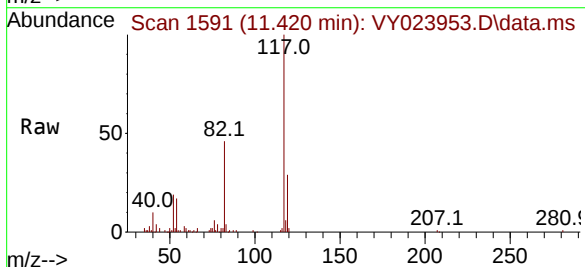
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

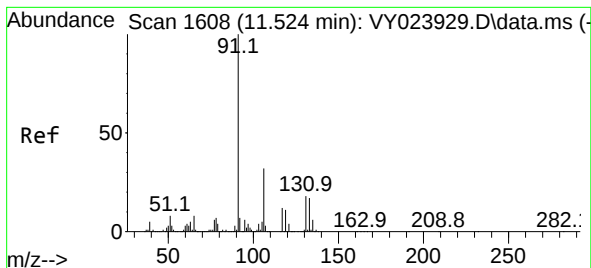
Tgt Ion: 95 Resp: 11093
Ion Ratio Lower Upper
95 100
174 91.1 0.0 187.4
176 91.0 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 117 Resp: 32863
Ion Ratio Lower Upper
117 100
82 46.1 41.4 62.2
119 28.8 25.5 38.3

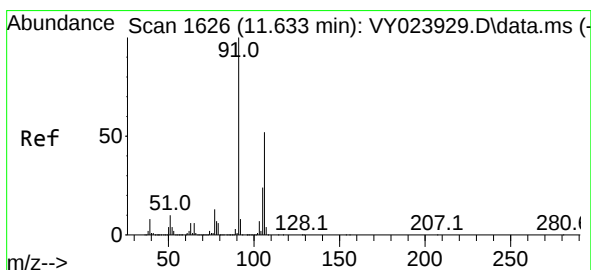
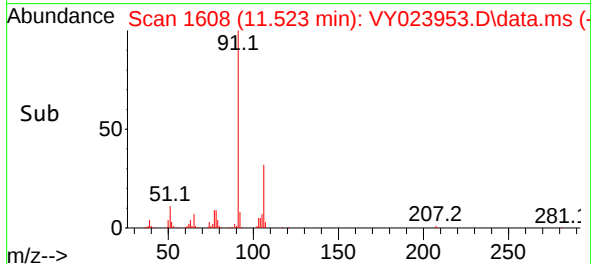
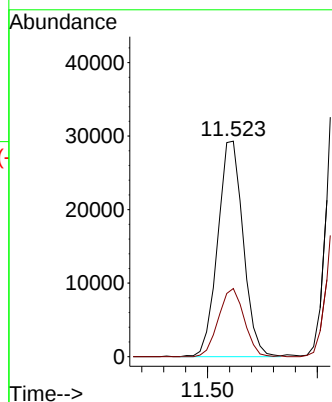
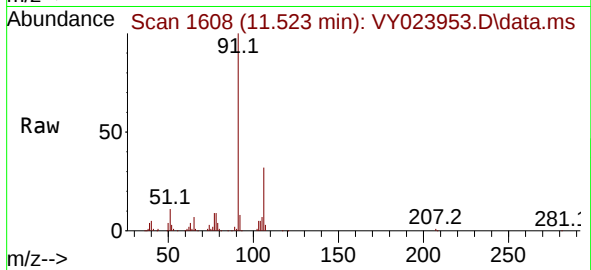




#67
Ethyl Benzene
Concen: 37.148 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

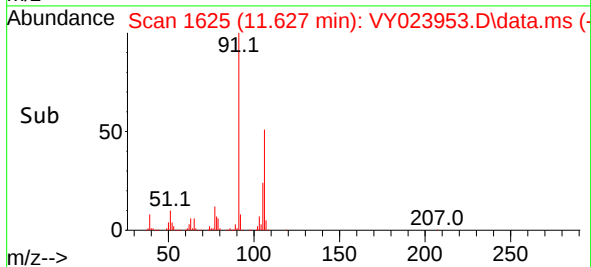
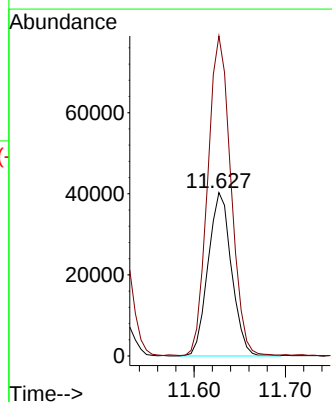
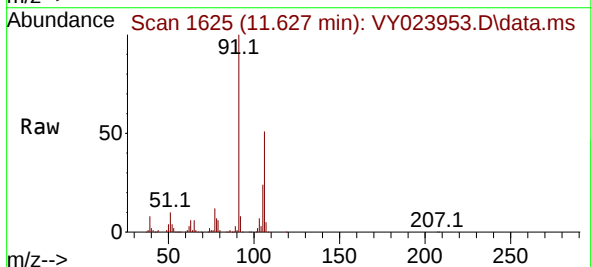
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

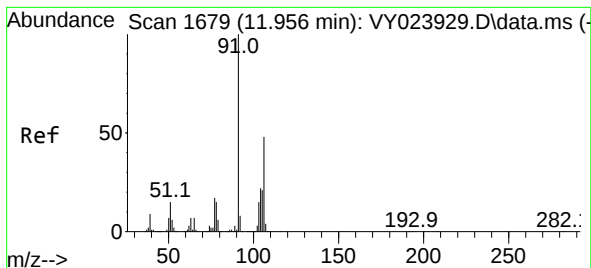
Tgt Ion: 91 Resp: 47397
Ion Ratio Lower Upper
91 100
106 31.6 25.8 38.8



#68
m/p-Xylenes
Concen: 141.570 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 106 Resp: 71704
Ion Ratio Lower Upper
106 100
91 193.5 155.0 232.6

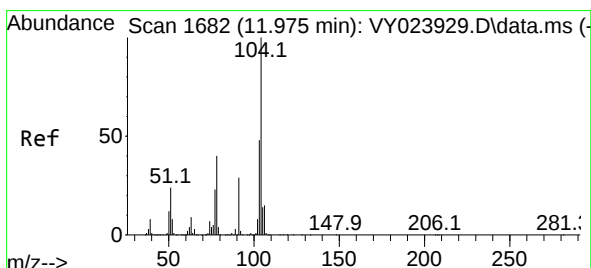
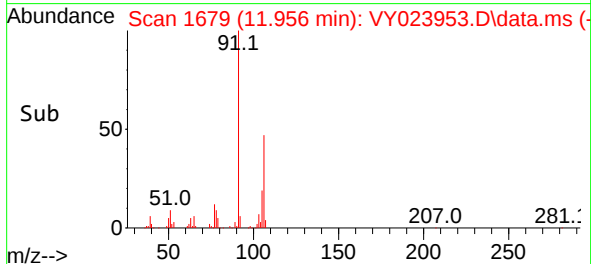
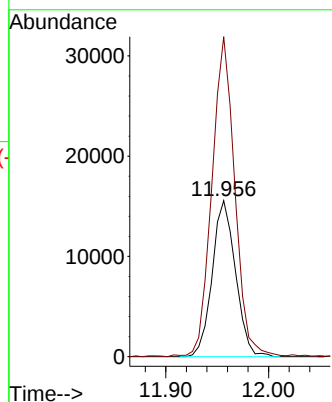
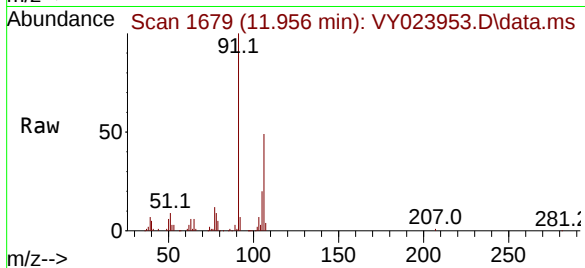




#69
o-Xylene
Concen: 51.562 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

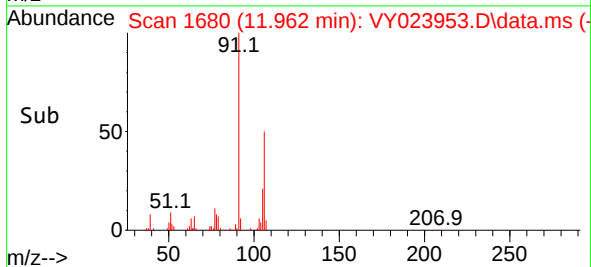
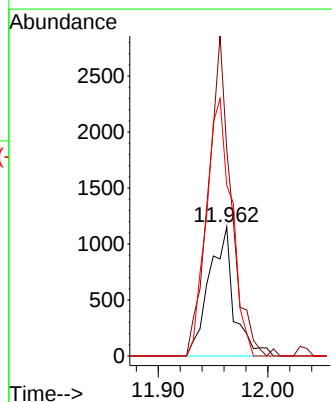
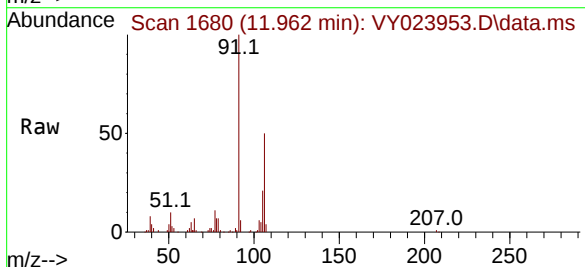
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

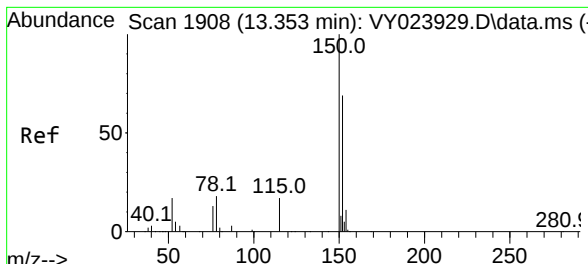
Tgt Ion:106 Resp: 24430
Ion Ratio Lower Upper
106 100
91 202.0 102.1 306.1



#70
Styrene
Concen: 2.353 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.012 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion:104 Resp: 1801
Ion Ratio Lower Upper
104 100
78 229.9 37.4 56.0#
103 203.6 43.0 64.4#

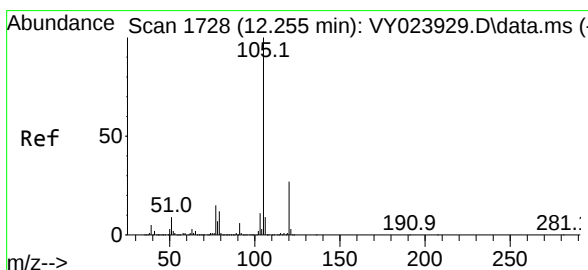
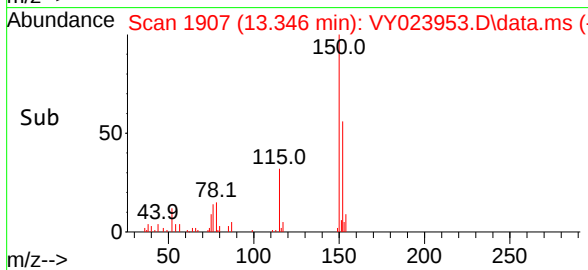
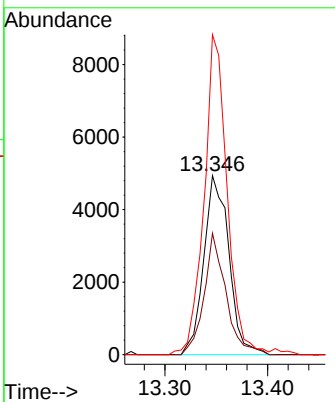
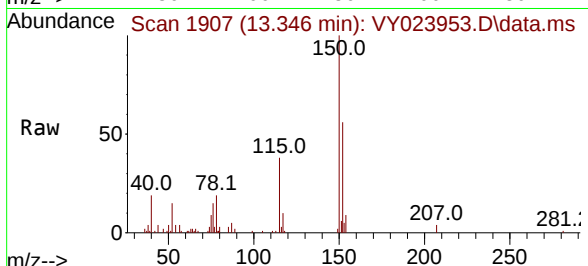




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

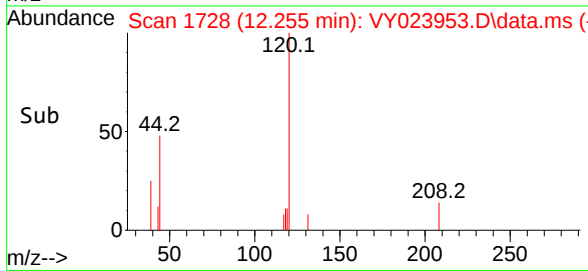
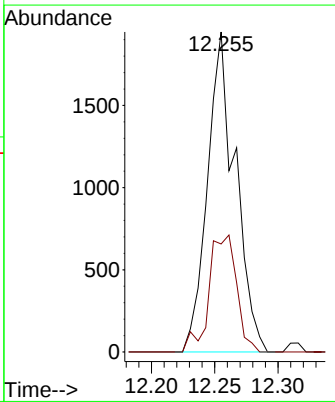
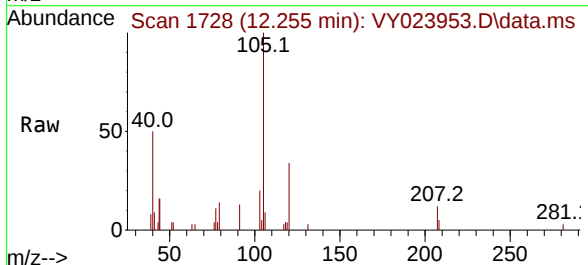
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-3RE

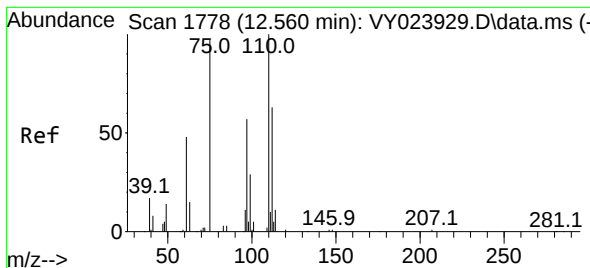
Tgt Ion:	152	Resp:	8372
Ion	Ratio	Lower	Upper
152	100		
115	59.4	27.3	81.9
150	163.8	0.0	347.6



#73
 Isopropylbenzene
 Concen: 4.884 ug/l
 RT: 12.255 min Scan# 1728
 Delta R.T. -0.000 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

Tgt Ion:	105	Resp:	2988
Ion	Ratio	Lower	Upper
105	100		
120	36.1	13.7	41.0





#76

1,2,3-Trichloropropane

Concen: 5.267 ug/l

RT: 12.651 min Scan# 1793

Delta R.T. 0.091 min

Lab File: VY023953.D

Acq: 11 Dec 2025 14:31

Instrument :

MSVOA_Y

ClientSampleId :

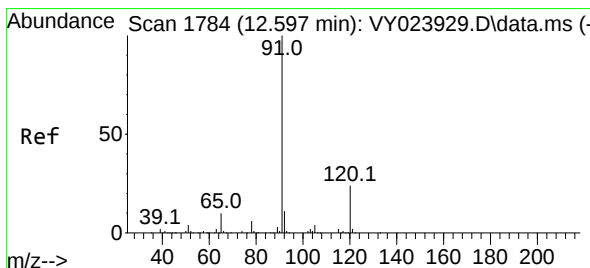
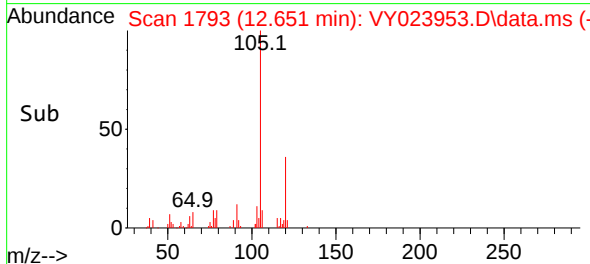
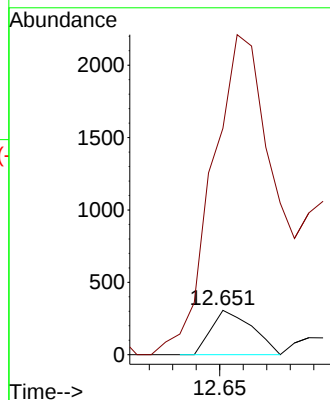
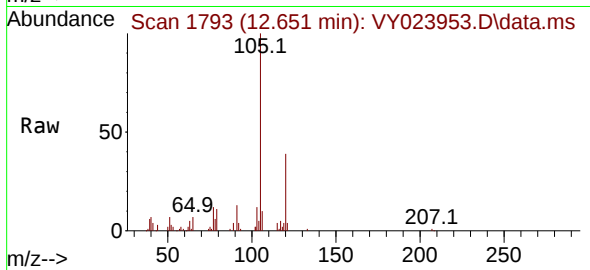
B-3RE

Tgt Ion: 75 Resp: 373

Ion Ratio Lower Upper

75 100

77 1082.8 0.0 0.0#



#78

n-propylbenzene

Concen: 17.429 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY023953.D

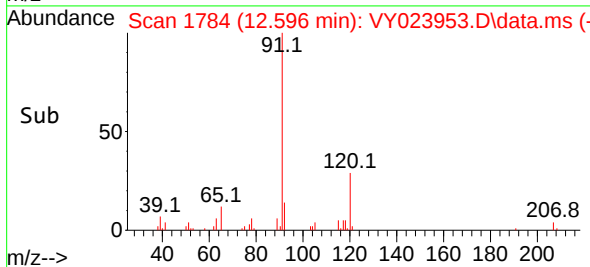
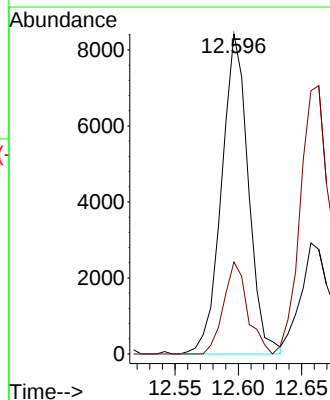
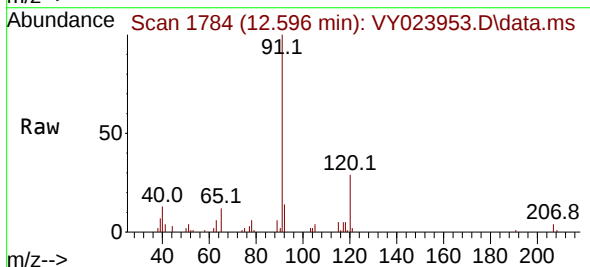
Acq: 11 Dec 2025 14:31

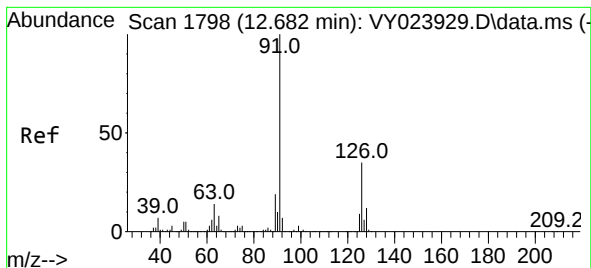
Tgt Ion: 91 Resp: 12407

Ion Ratio Lower Upper

91 100

120 25.6 12.0 36.0





#79

2-Chlorotoluene

Concen: 11.109 ug/l

RT: 12.657 min Scan# 11

Delta R.T. -0.024 min

Lab File: VY023953.D

Acq: 11 Dec 2025 14:31

Instrument :

MSVOA_Y

ClientSampleId :

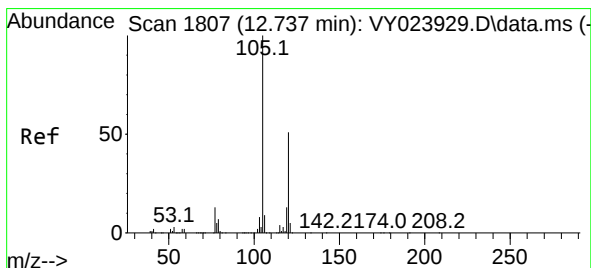
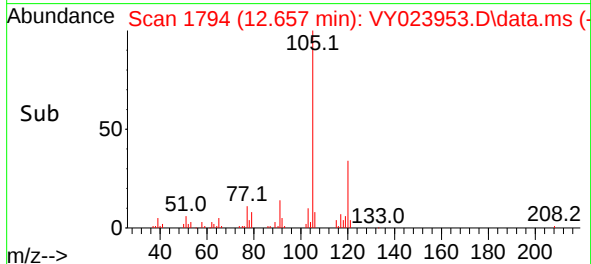
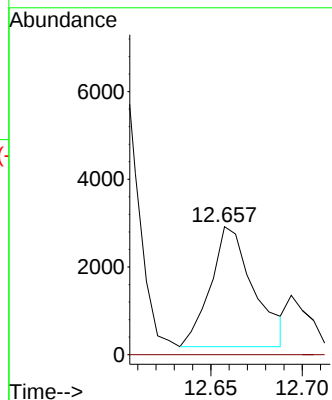
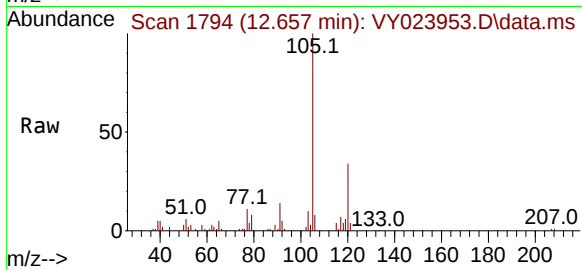
B-3RE

Tgt Ion: 91 Resp: 4492

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#80

1,3,5-Trimethylbenzene

Concen: 19.393 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY023953.D

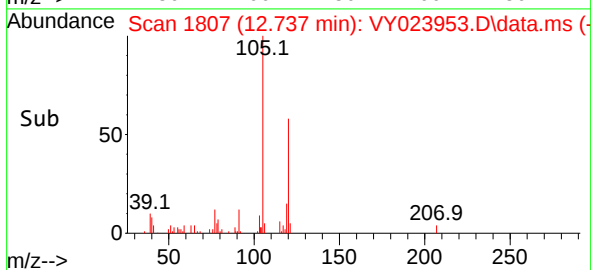
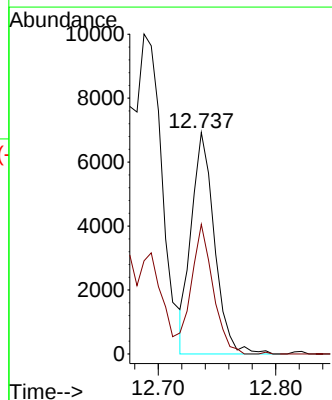
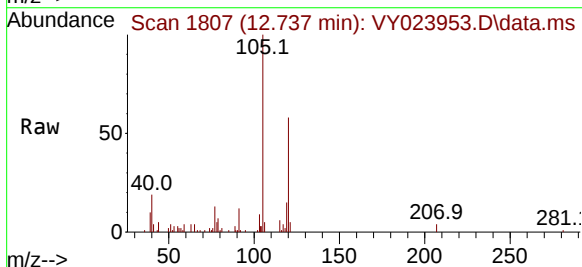
Acq: 11 Dec 2025 14:31

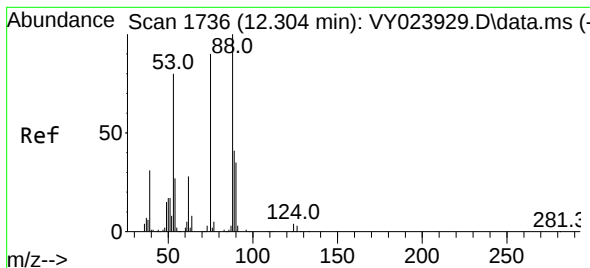
Tgt Ion: 105 Resp: 9466

Ion Ratio Lower Upper

105 100

120 56.2 25.7 77.1

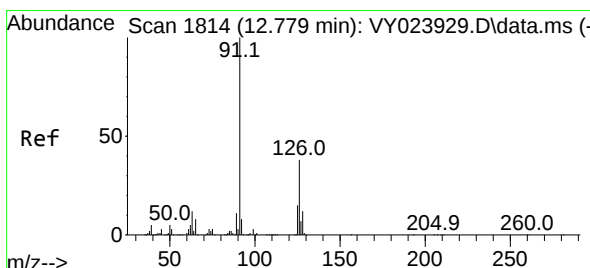
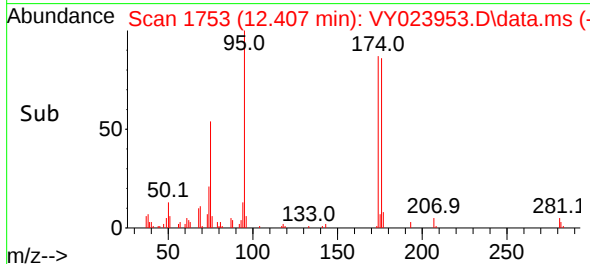
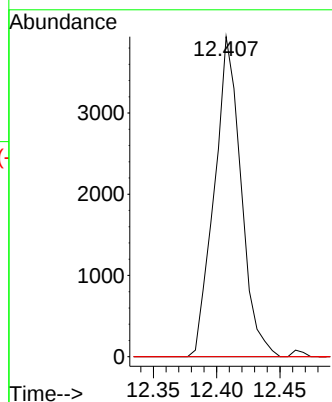
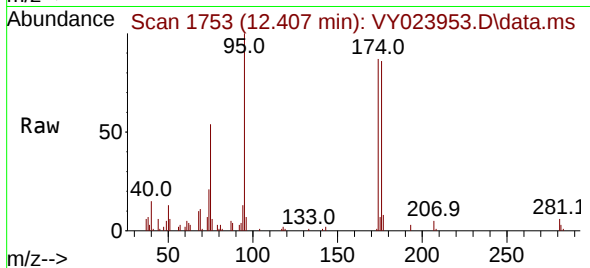




#81
trans-1,4-Dichloro-2-butene
Concen: 185.909 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

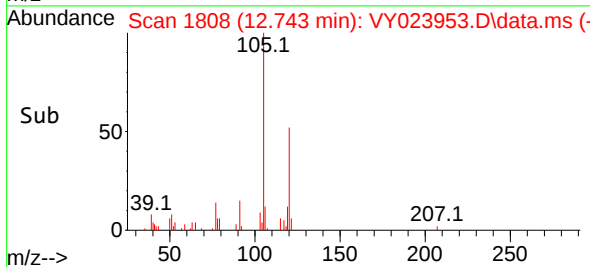
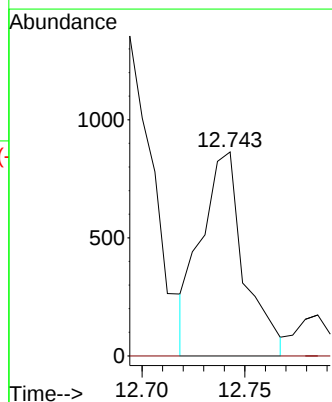
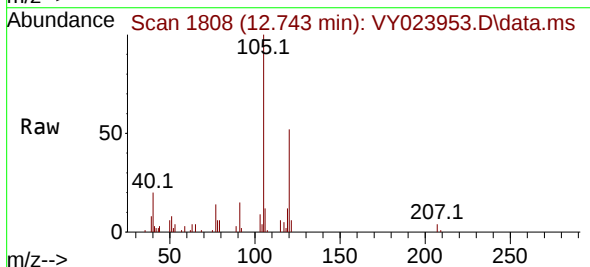
Instrument :
MSVOA_Y
ClientSampleId :
B-3RE

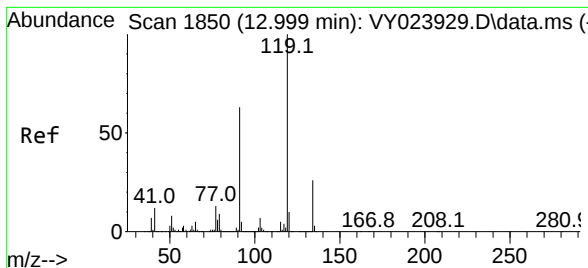
Tgt Ion: 75 Resp: 5784
Ion Ratio Lower Upper
75 100
53 0.0 73.4 110.0#
89 0.0 38.9 58.3#



#82
4-Chlorotoluene
Concen: 3.029 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.037 min
Lab File: VY023953.D
Acq: 11 Dec 2025 14:31

Tgt Ion: 91 Resp: 1261
Ion Ratio Lower Upper
91 100
126 0.0 18.1 54.1#





#83

tert-Butylbenzene

Concen: 7.623 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. 0.043 min

Lab File: VY023953.D

Acq: 11 Dec 2025 14:31

Instrument :

MSVOA_Y

ClientSampleId :

B-3RE

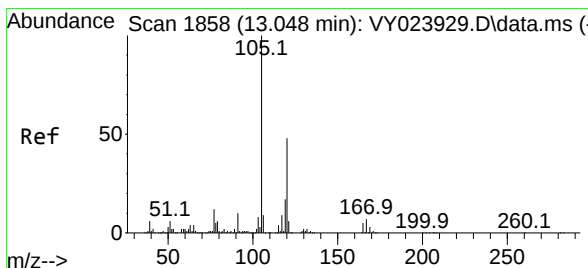
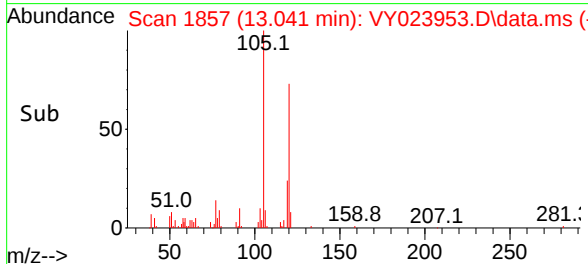
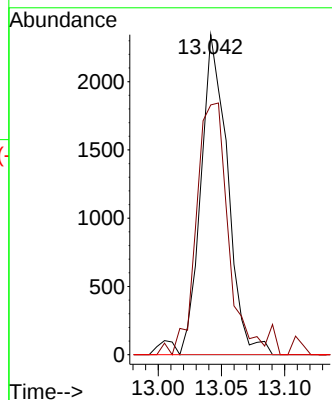
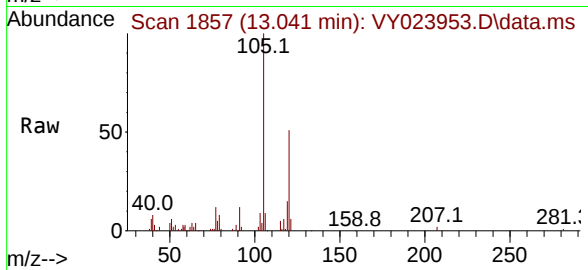
Tgt Ion:119 Resp: 3438

Ion Ratio Lower Upper

119 100

91 96.0 31.6 94.7#

134 0.0 13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 52.252 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY023953.D

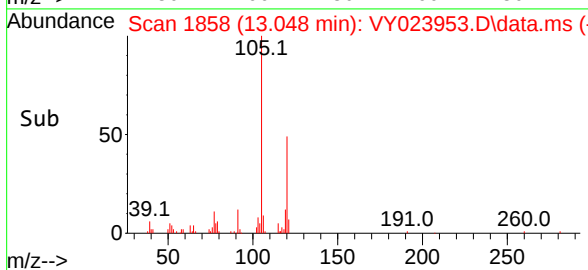
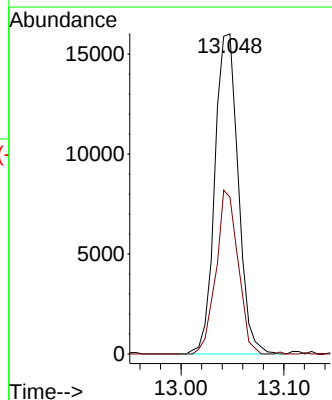
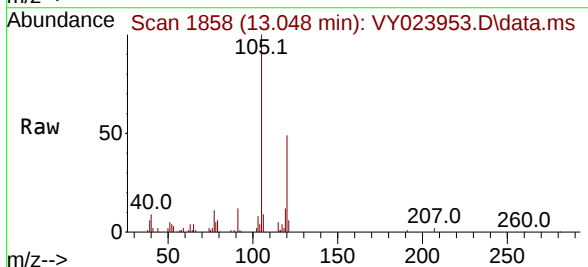
Acq: 11 Dec 2025 14:31

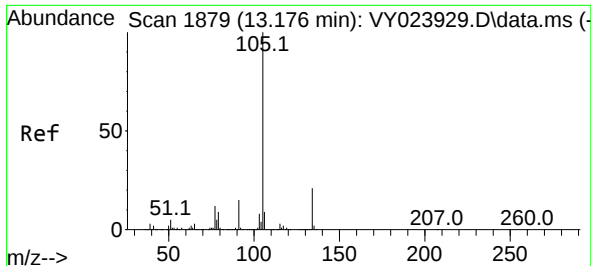
Tgt Ion:105 Resp: 25266

Ion Ratio Lower Upper

105 100

120 48.2 23.4 70.3

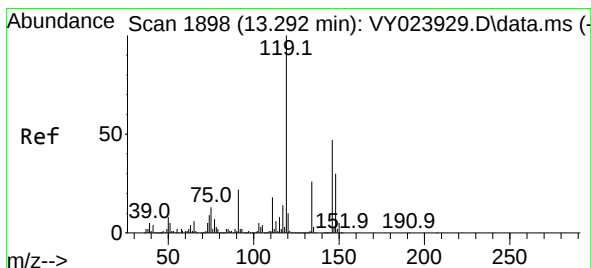
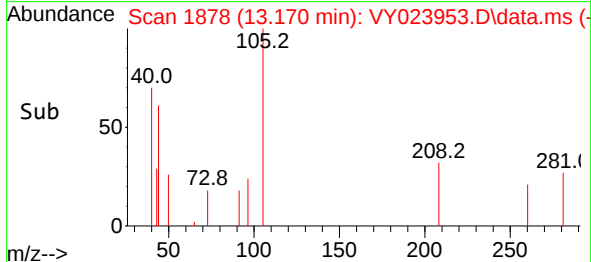
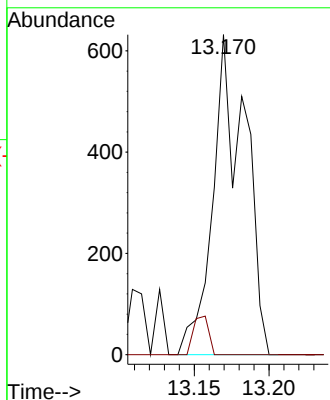
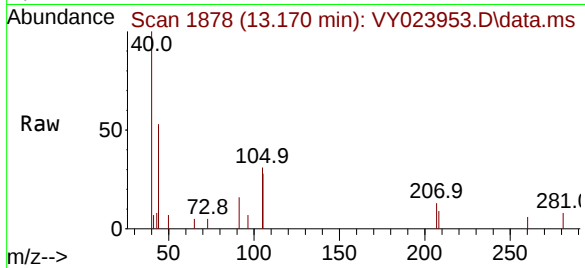




#85
 sec-Butylbenzene
 Concen: 1.446 ug/l
 RT: 13.170 min Scan# 1878
 Delta R.T. -0.006 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

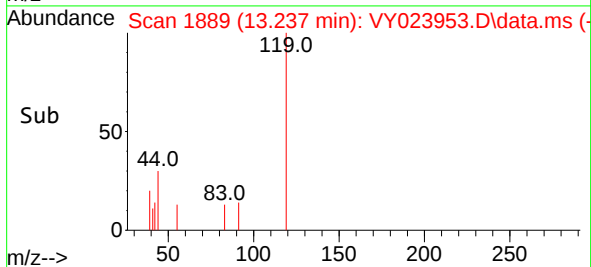
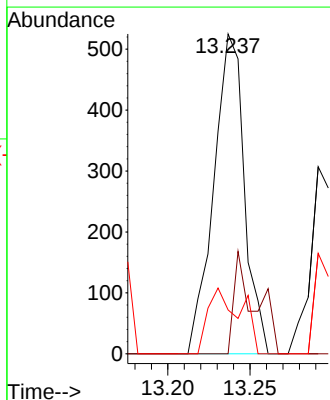
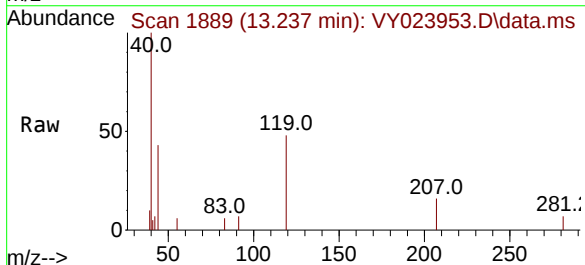
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 MSVOA_Y
 ClientSampleId :
 B-3RE

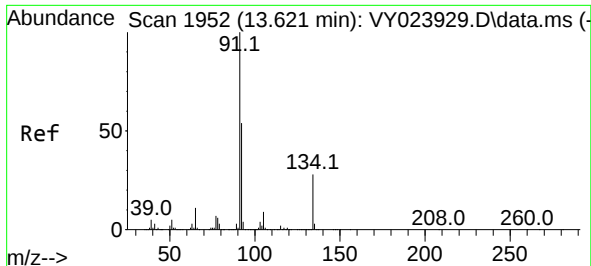
Tgt Ion:105 Resp: 951
 Ion Ratio Lower Upper
 105 100
 134 5.7 10.6 31.8#



#86
 p-Isopropyltoluene
 Concen: 1.225 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. -0.055 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

Tgt Ion:119 Resp: 682
 Ion Ratio Lower Upper
 119 100
 134 22.3 13.6 40.7
 91 22.0 11.1 33.3





#89

n-Butylbenzene

Concen: 1.295 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY023953.D

Acq: 11 Dec 2025 14:31

Instrument :

MSVOA_Y

ClientSampleId :

B-3RE

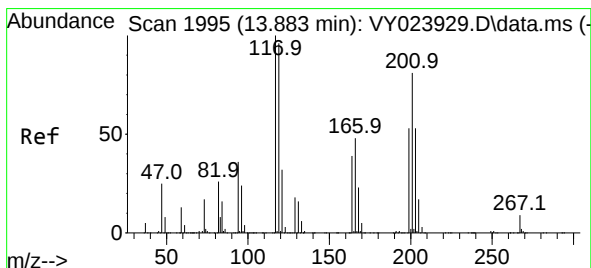
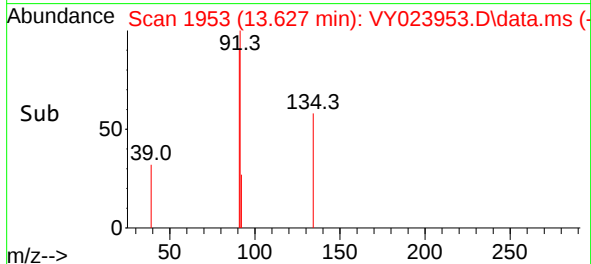
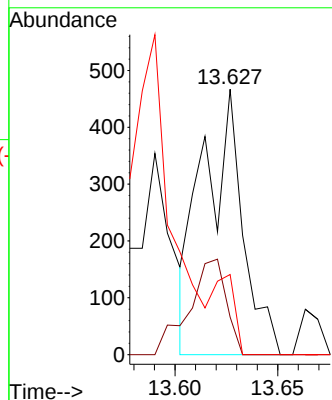
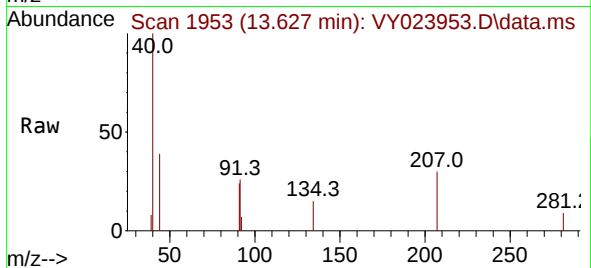
Tgt Ion: 91 Resp: 631

Ion Ratio Lower Upper

91 100

92 33.6 26.9 80.6

134 0.0 13.9 41.6#



#90

Hexachloroethane

Concen: 1.382 ug/l

RT: 13.883 min Scan# 1995

Delta R.T. -0.000 min

Lab File: VY023953.D

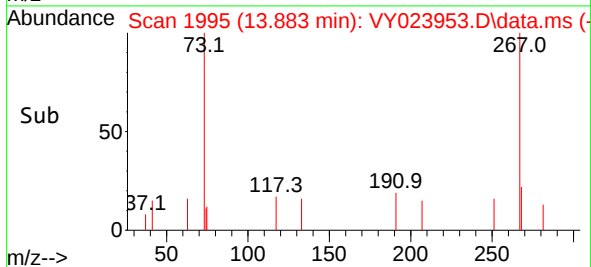
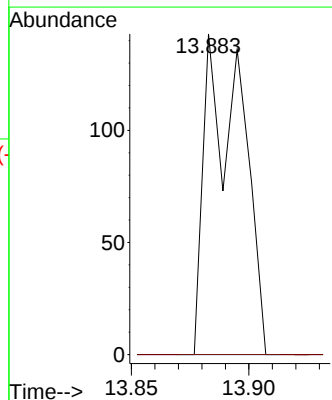
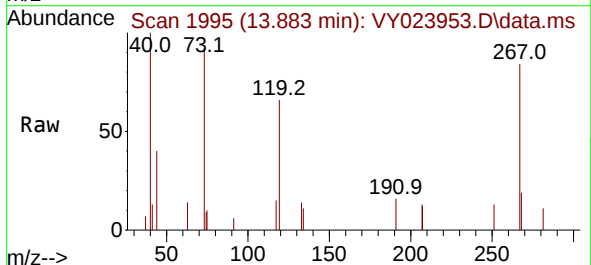
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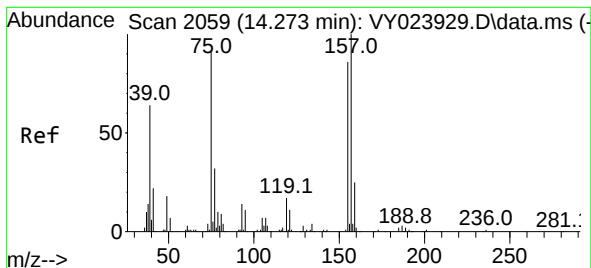
Tgt Ion: 117 Resp: 157

Ion Ratio Lower Upper

117 100

201 0.0 42.4 127.3#

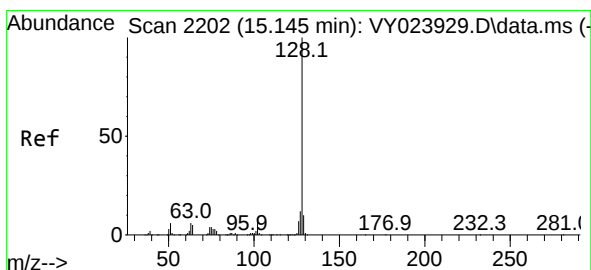
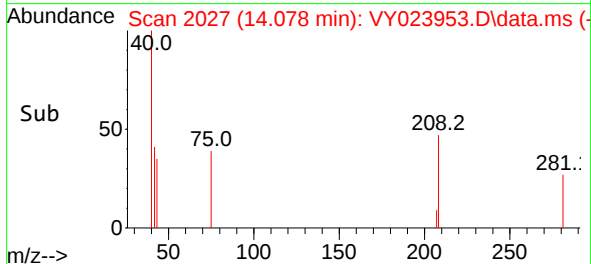
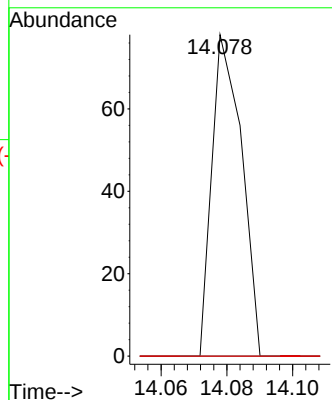
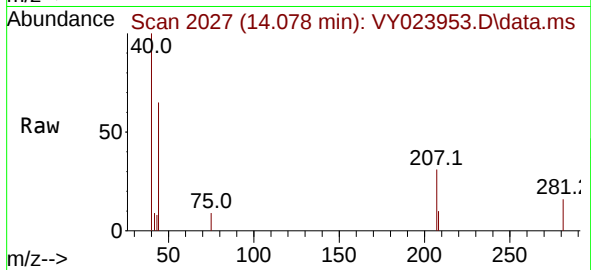




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.397 ug/l
 RT: 14.078 min Scan# 2059
 Delta R.T. -0.195 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-3RE

Tgt Ion: 75 Resp: 49
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.2 150.7#
 157 0.0 62.8 188.5#



#95
 Naphthalene
 Concen: 2.813 ug/l
 RT: 15.151 min Scan# 2203
 Delta R.T. 0.006 min
 Lab File: VY023953.D
 Acq: 11 Dec 2025 14:31

Tgt Ion: 128 Resp: 653
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.6 12.8#

