

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061925\
 Data File : VY022747.D
 Acq On : 19 Jun 2025 11:51
 Operator : SY/MD
 Sample : Q2357-01
 Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025RE

Quant Time: Jun 20 02:57:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

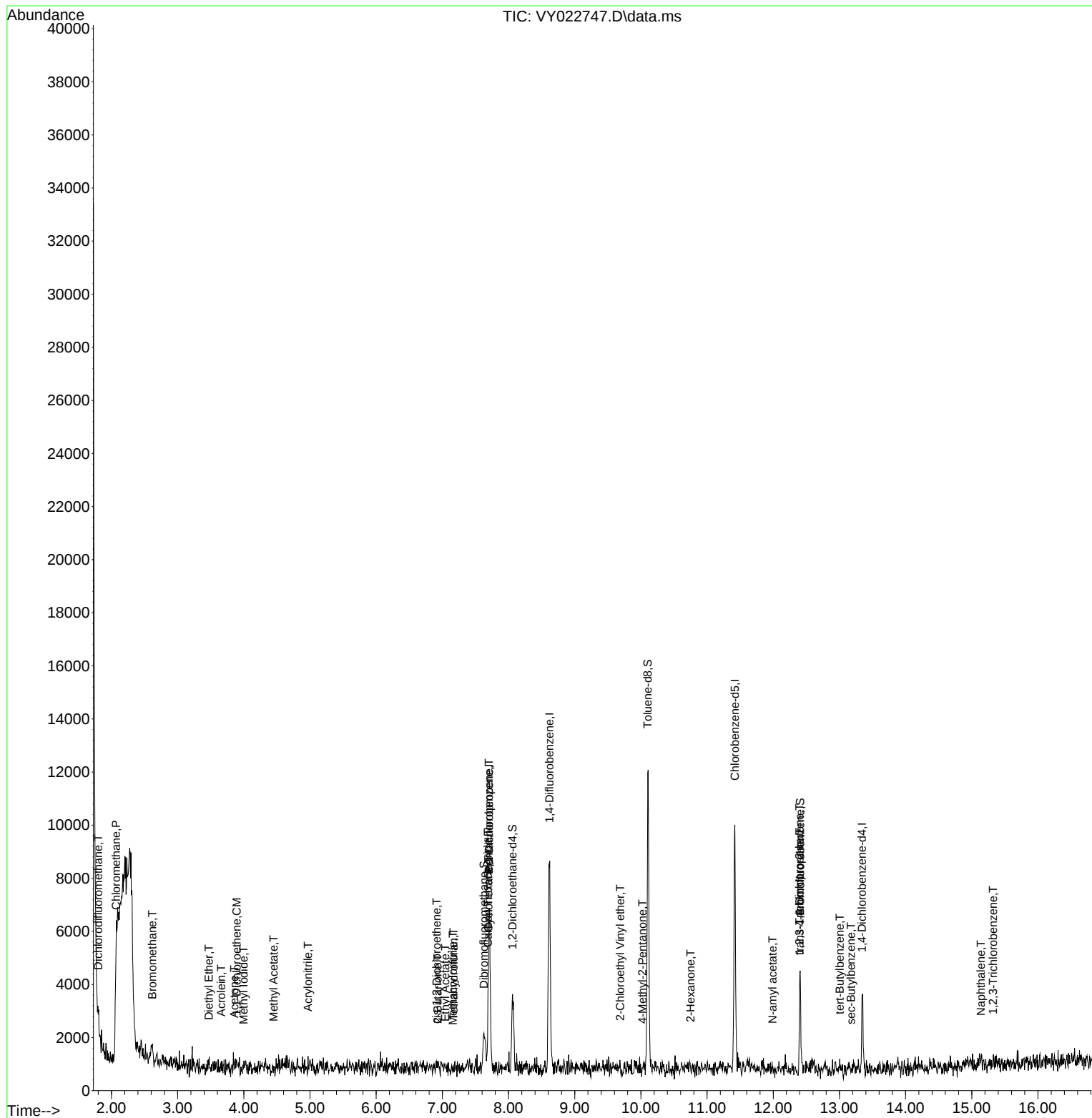
Internal Standards						
1) Pentafluorobenzene	7.701	168	4987	50.000	ug/l	#-0.01
34) 1,4-Difluorobenzene	8.616	114	7080	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	4641	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2316	41.523	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	83.040%
35) Dibromofluoromethane	7.628	113	1118	26.456	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	52.920%#
50) Toluene-d8	10.103	98	7339	42.980	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.960%
62) 4-Bromofluorobenzene	12.408	95	950	18.673	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	37.340%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.800	85	51	1.142	ug/l #	41
3) Chloromethane	2.068	50	908	6.884	ug/l #	61
5) Bromomethane	2.617	94	433	2.952	ug/l #	55
8) Diethyl Ether	3.470	74	53	1.812	ug/l	95
10) Methyl Iodide	3.995	142	171	2.888	ug/l #	57
12) 1,1-Dichloroethene	3.891	96	77	1.472	ug/l #	1
13) Acrolein	3.659	56	40	8.057	ug/l #	14
15) Acrylonitrile	4.970	53	34	2.744	ug/l #	17
16) Acetone	3.854	43	120	10.594	ug/l #	45
18) Methyl Acetate	4.452	43	46	1.371	ug/l #	51
25) 2-Butanone	6.927	43	72	4.407	ug/l #	46
27) cis-1,2-Dichloroethene	6.915	96	95	1.404	ug/l #	1
29) Tetrahydrofuran	7.171	42	26	2.467	ug/l #	31
31) Cyclohexane	7.695	56	176	1.642	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	488	7.115	ug/l #	42
37) Ethyl Acetate	7.043	43	49	1.602	ug/l #	69
38) Carbon Tetrachloride	7.689	117	254	3.610	ug/l #	13
41) Methacrylonitrile	7.159	41	20	1.119	ug/l #	16
51) 4-Methyl-2-Pentanone	10.024	43	43	1.306	ug/l #	37
58) 2-Chloroethyl Vinyl ether	9.689	63	52	2.307	ug/l #	48
59) 2-Hexanone	10.749	43	48	2.179	ug/l #	24
74) N-amyl acetate	11.987	43	81	5.717	ug/l #	43
76) 1,2,3-Trichloropropane	12.395	75	899	114.885	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.395	75	899	277.440	ug/l #	10
83) tert-Butylbenzene	13.005	119	75	1.895	ug/l #	27
85) sec-Butylbenzene	13.176	105	74	1.221	ug/l #	57
95) Naphthalene	15.139	128	337	15.795	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.322	180	40	4.198	ug/l #	13

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

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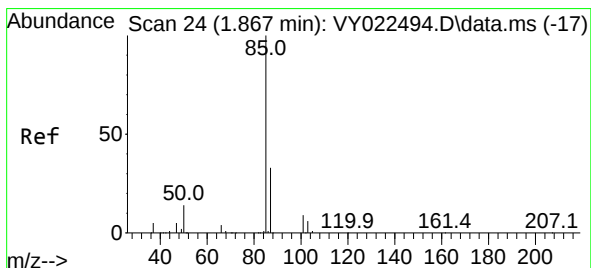
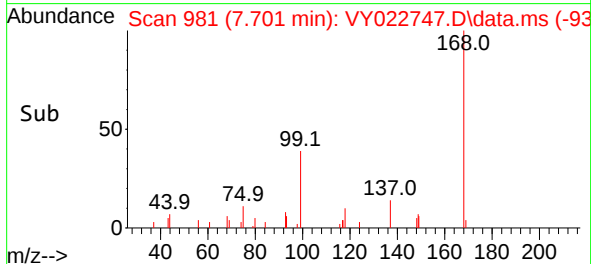
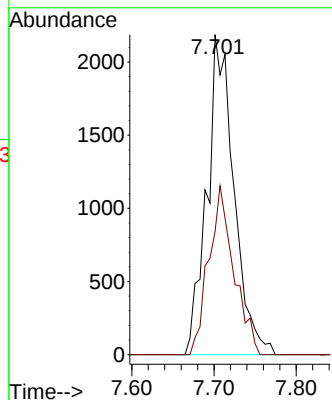
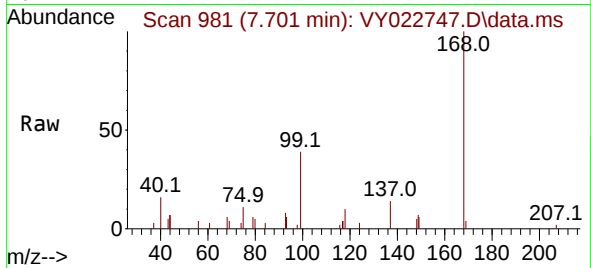




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 99
Delta R.T. -0.012 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

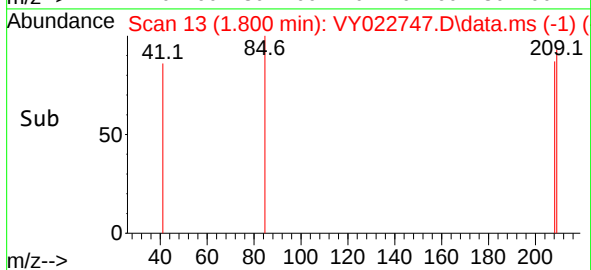
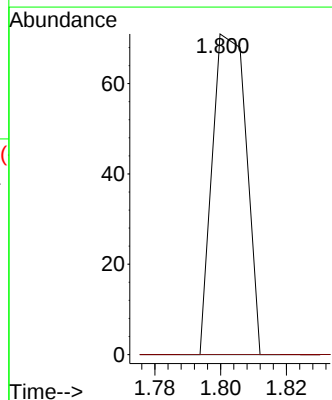
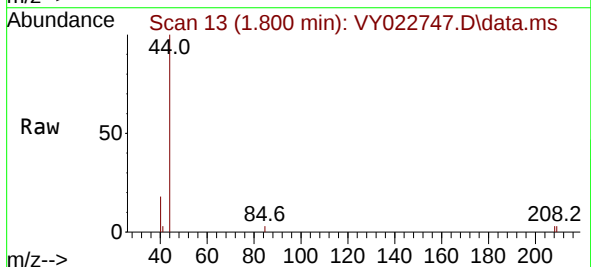
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

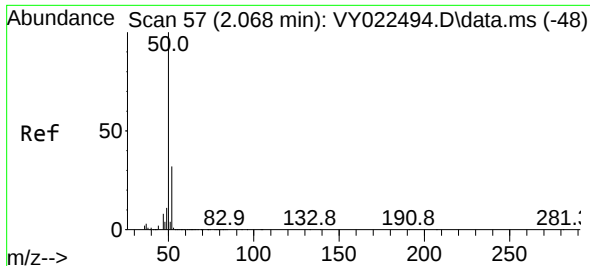
Tgt Ion:168 Resp: 4987
Ion Ratio Lower Upper
168 100
99 38.5 44.3 66.5#



#2
Dichlorodifluoromethane
Concen: 1.142 ug/l
RT: 1.800 min Scan# 13
Delta R.T. -0.067 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 85 Resp: 51
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.0#

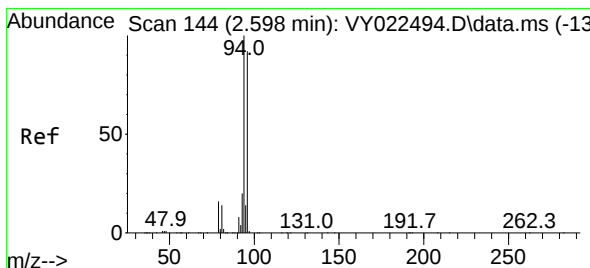
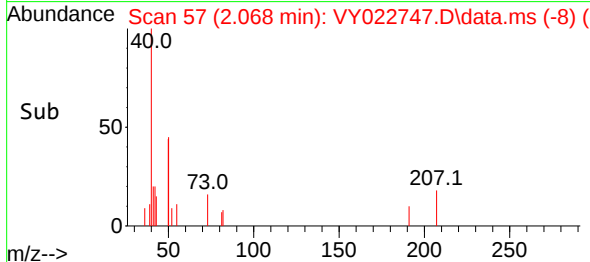
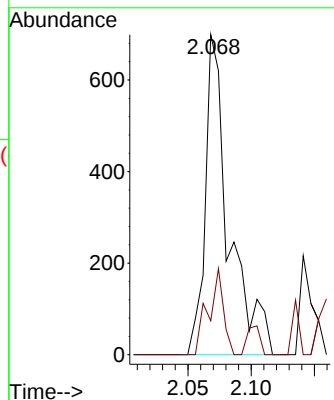
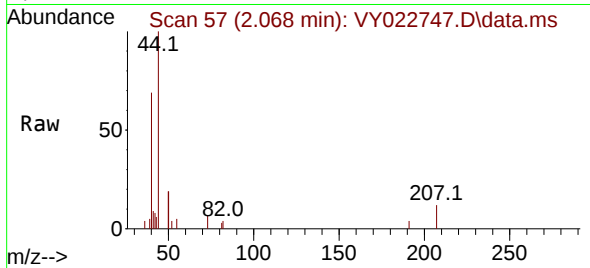




#3
Chloromethane
Concen: 6.884 ug/l
RT: 2.068 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

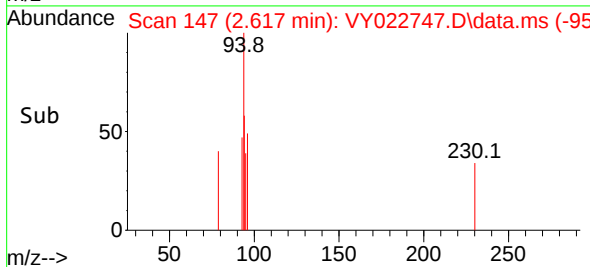
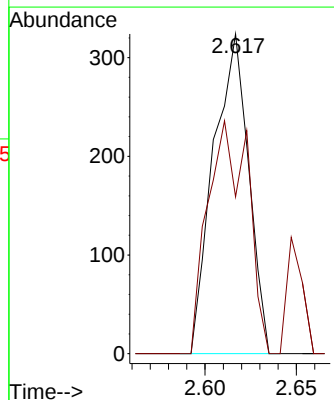
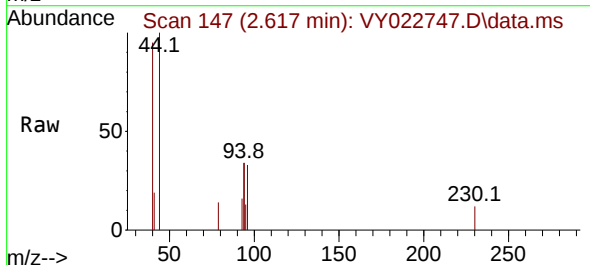
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

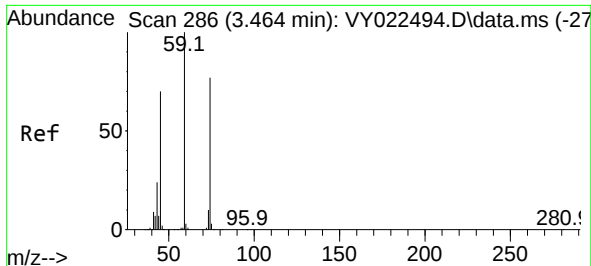
Tgt Ion: 50 Resp: 908
Ion Ratio Lower Upper
50 100
52 10.6 26.0 39.0#



#5
Bromomethane
Concen: 2.952 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.018 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 94 Resp: 433
Ion Ratio Lower Upper
94 100
96 49.1 74.0 111.0#

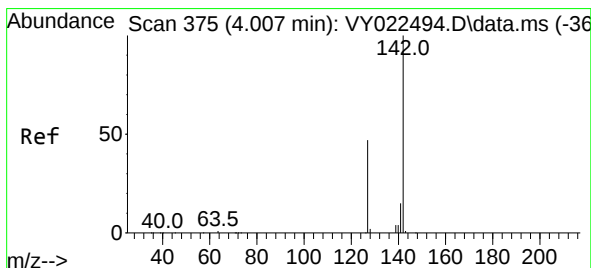
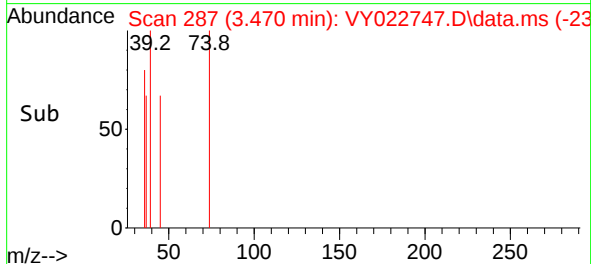
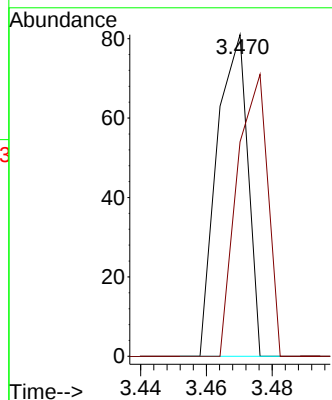
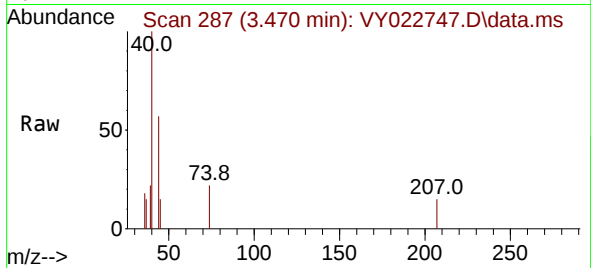




#8
Diethyl Ether
Concen: 1.812 ug/l
RT: 3.470 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

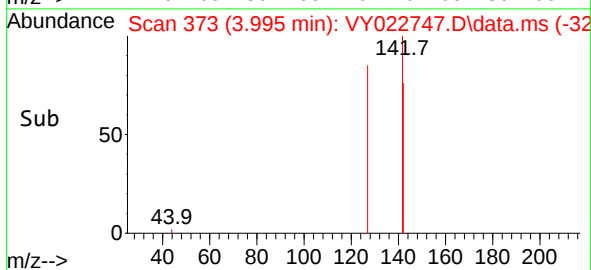
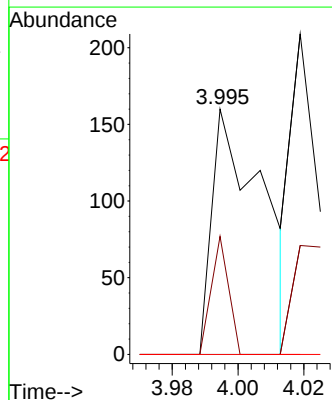
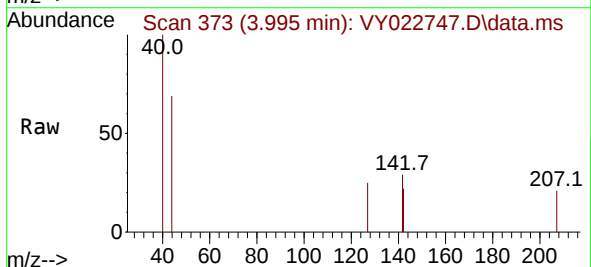
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

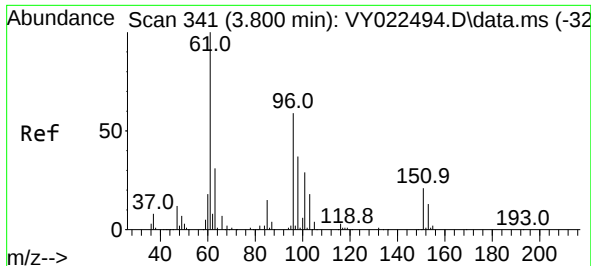
Tgt Ion: 74 Resp: 53
Ion Ratio Lower Upper
74 100
45 86.8 45.9 137.6



#10
Methyl Iodide
Concen: 2.888 ug/l
RT: 3.995 min Scan# 373
Delta R.T. -0.012 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion:142 Resp: 171
Ion Ratio Lower Upper
142 100
127 16.4 37.1 55.7#
141 0.0 11.4 17.2#

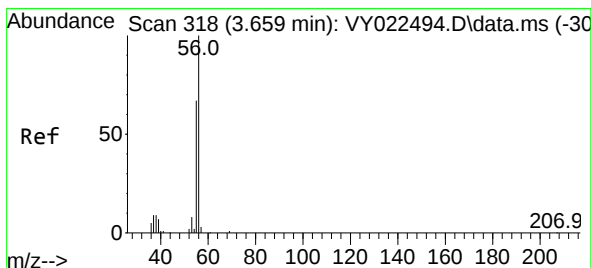
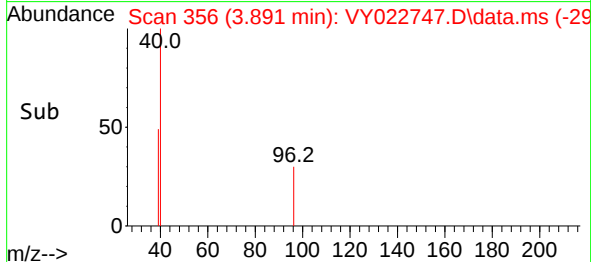
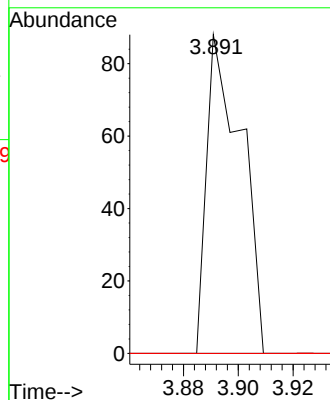
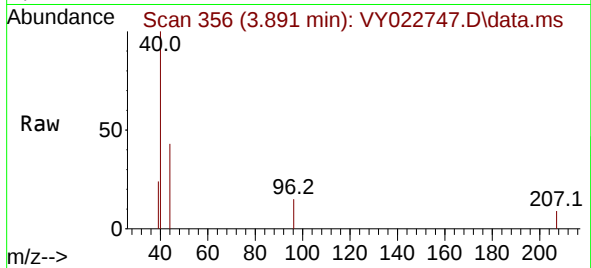




#12
1,1-Dichloroethene
Concen: 1.472 ug/l
RT: 3.891 min Scan# 31
Delta R.T. 0.091 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

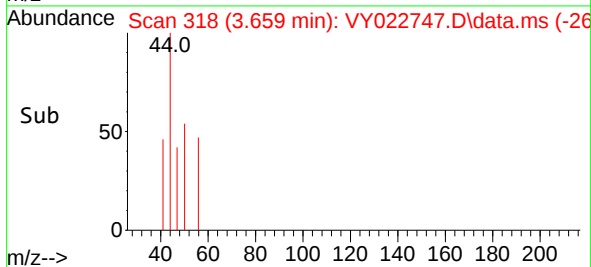
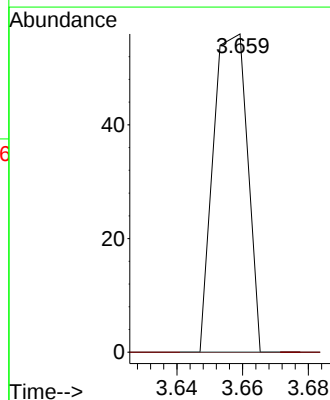
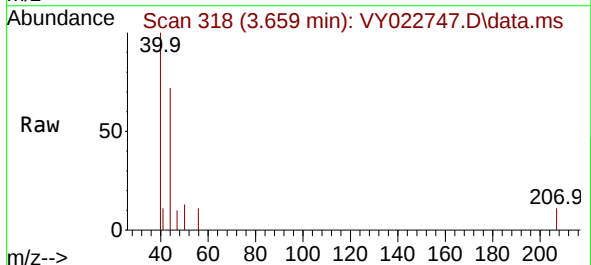
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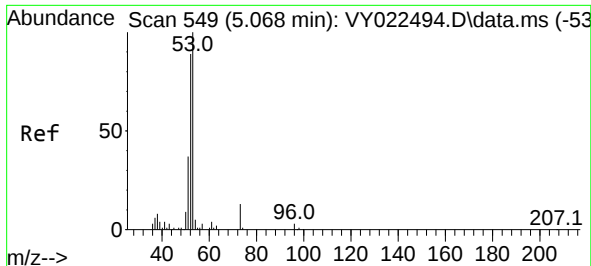
Tgt Ion: 96 Resp: 77
Ion Ratio Lower Upper
96 100
61 0.0 134.6 201.8#
98 0.0 50.2 75.4#



#13
Acrolein
Concen: 8.057 ug/l
RT: 3.659 min Scan# 318
Delta R.T. -0.000 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 56 Resp: 40
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#

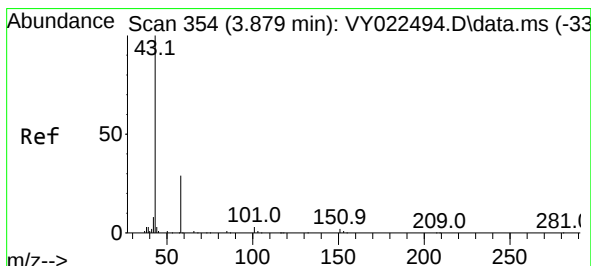
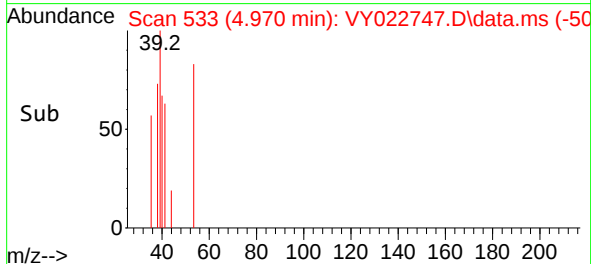
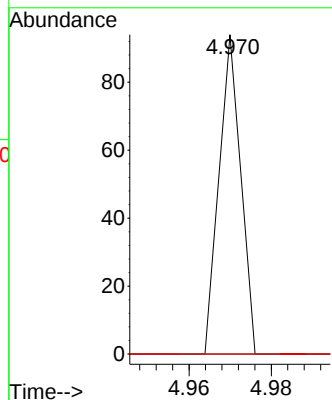
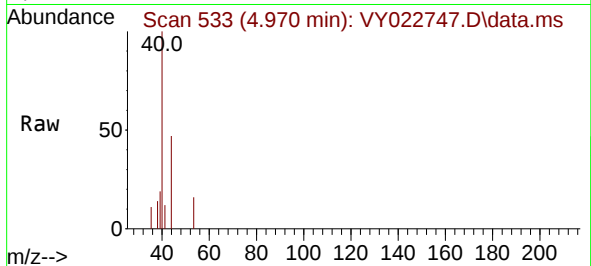




#15
Acrylonitrile
Concen: 2.744 ug/l
RT: 4.970 min Scan# 51
Delta R.T. -0.098 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

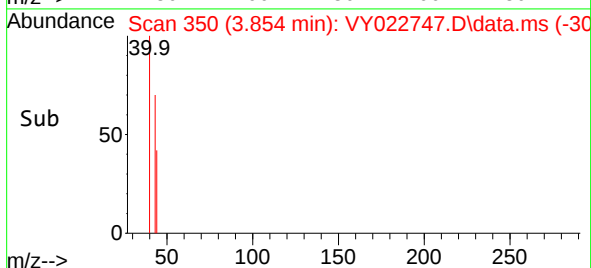
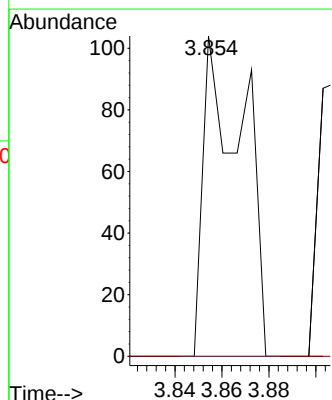
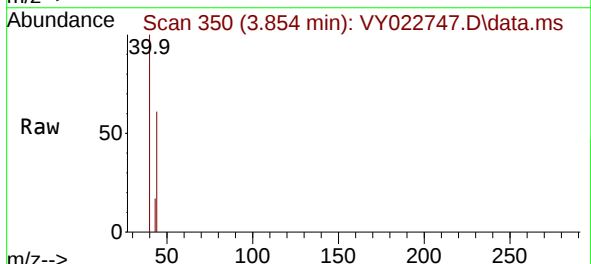
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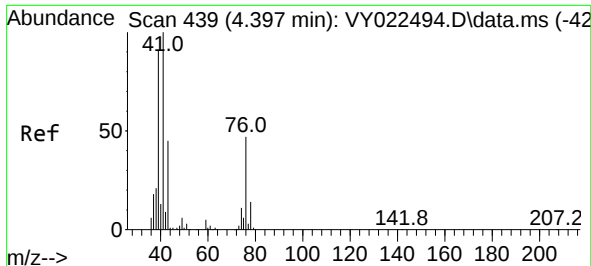
Tgt Ion: 53 Resp: 34
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 0.0 30.1 45.1#



#16
Acetone
Concen: 10.594 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.024 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

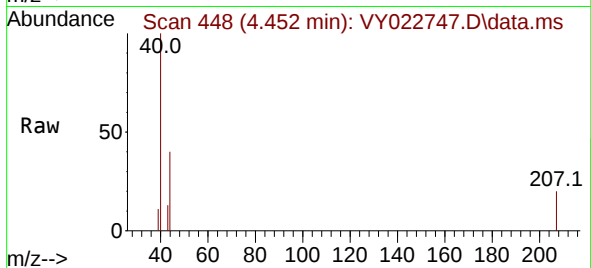
Tgt Ion: 43 Resp: 120
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



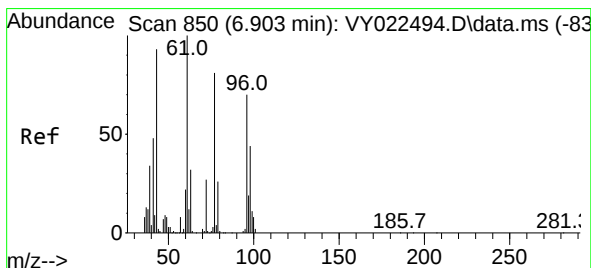
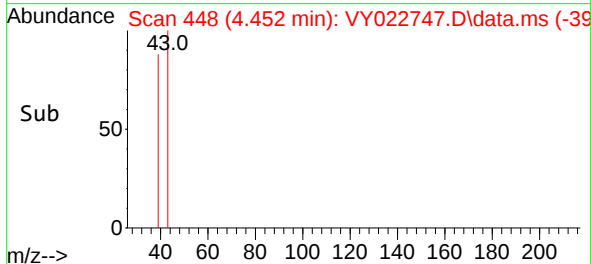
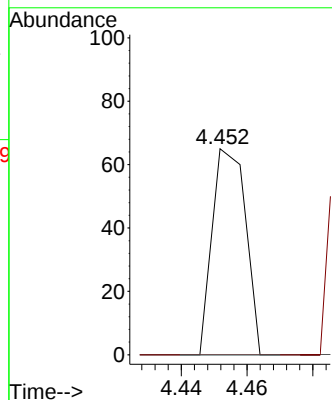


#18
Methyl Acetate
Concen: 1.371 ug/l
RT: 4.452 min Scan# 44
Delta R.T. 0.055 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

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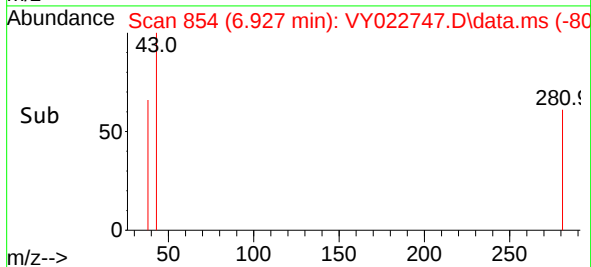
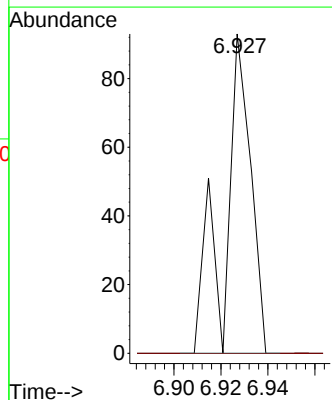
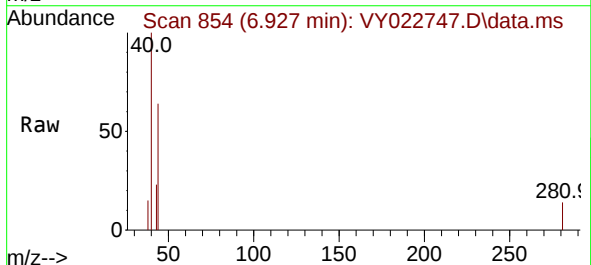


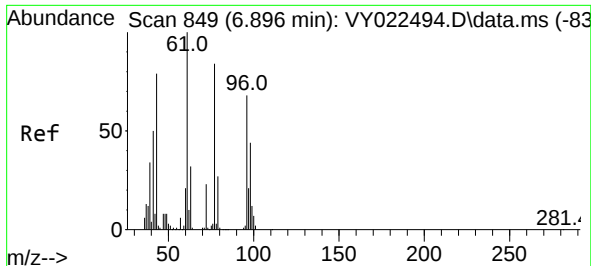
Tgt Ion: 43 Resp: 46
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#25
2-Butanone
Concen: 4.407 ug/l
RT: 6.927 min Scan# 854
Delta R.T. 0.024 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#





#27

cis-1,2-Dichloroethene

Concen: 1.404 ug/l

RT: 6.915 min Scan# 81

Delta R.T. 0.018 min

Lab File: VY022747.D

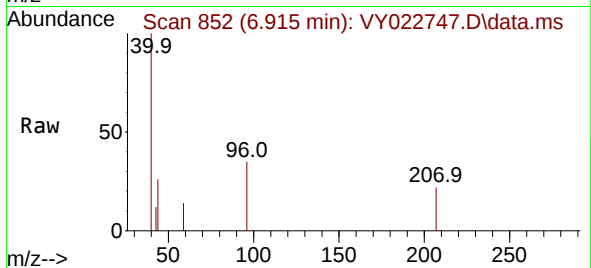
Acq: 19 Jun 2025 11:51

Instrument :

MSVOA_Y

ClientSampleId :

TR-06-06182025RE



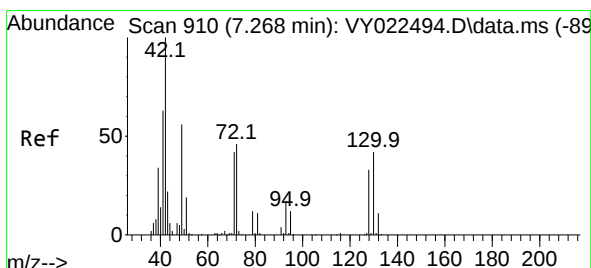
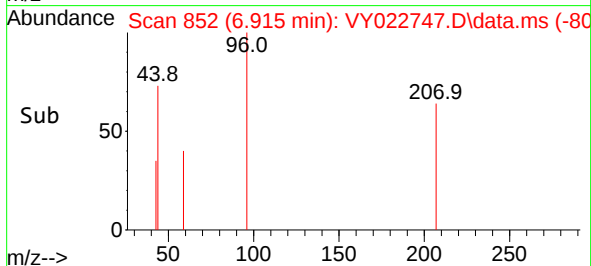
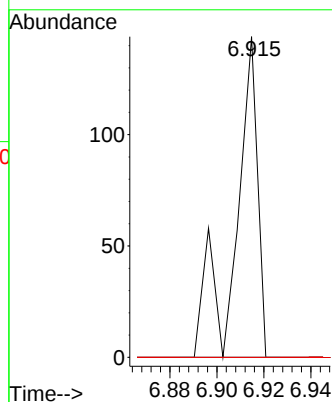
Tgt Ion: 96 Resp: 95

Ion Ratio Lower Upper

96 100

61 0.0 0.0 290.0

98 0.0 0.0 128.4



#29

Tetrahydrofuran

Concen: 2.467 ug/l

RT: 7.171 min Scan# 894

Delta R.T. -0.098 min

Lab File: VY022747.D

Acq: 19 Jun 2025 11:51

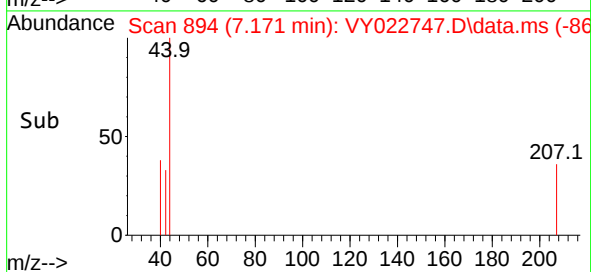
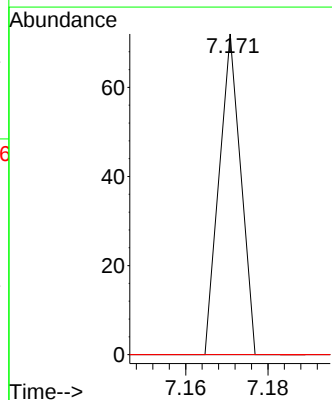
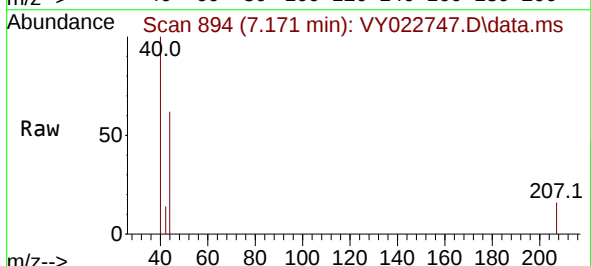
Tgt Ion: 42 Resp: 26

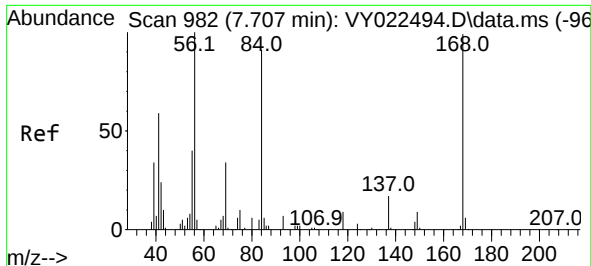
Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.2#

71 0.0 34.2 51.2#

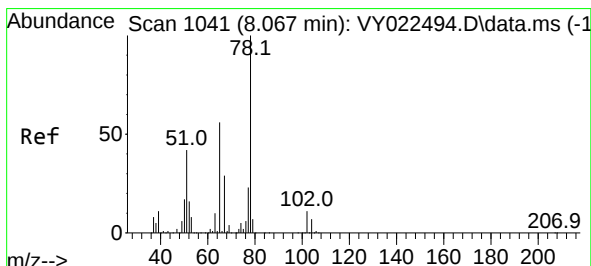
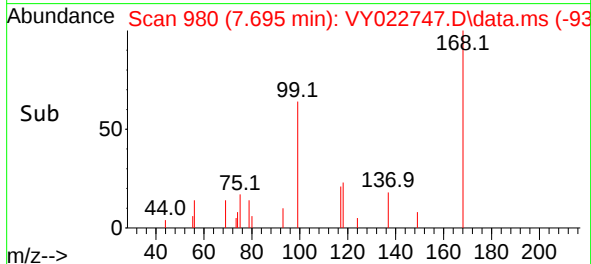
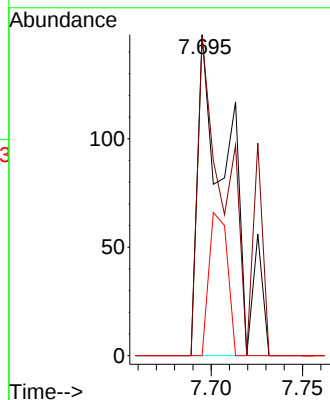
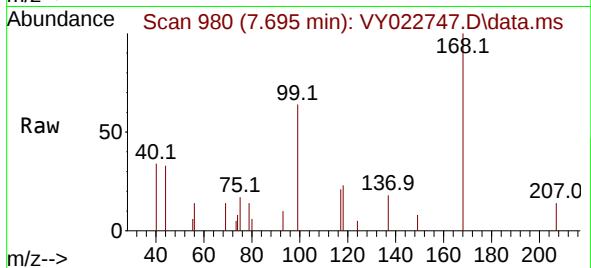




#31
Cyclohexane
Concen: 1.642 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

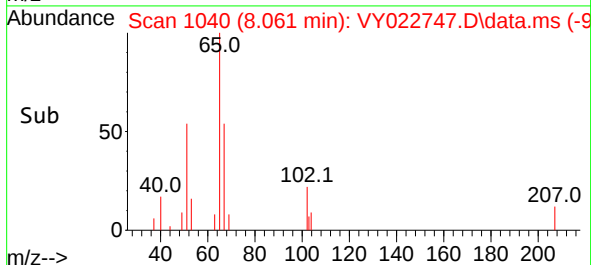
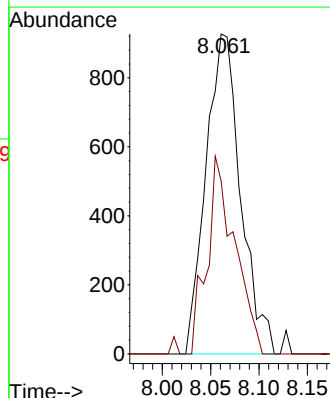
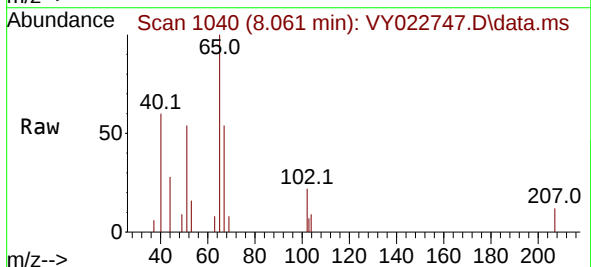
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

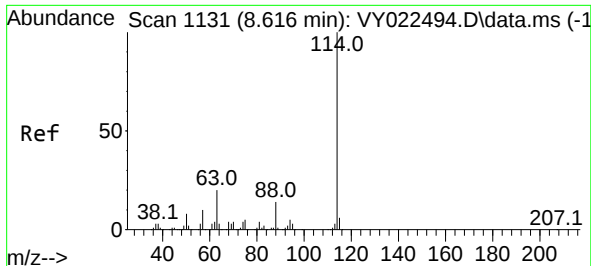
Tgt Ion: 56 Resp: 176
Ion Ratio Lower Upper
56 100
69 99.3 27.0 40.6#
84 0.0 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 41.523 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 65 Resp: 2316
Ion Ratio Lower Upper
65 100
67 49.5 0.0 103.4

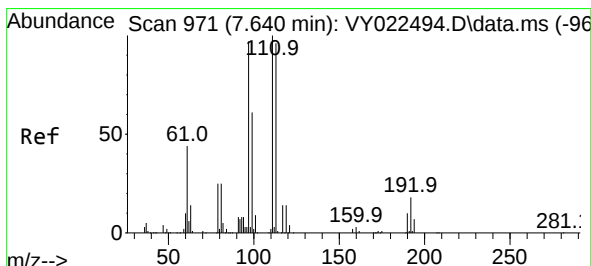
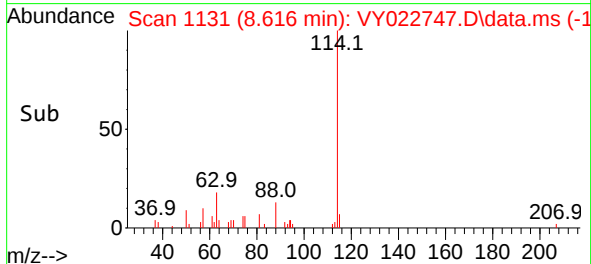
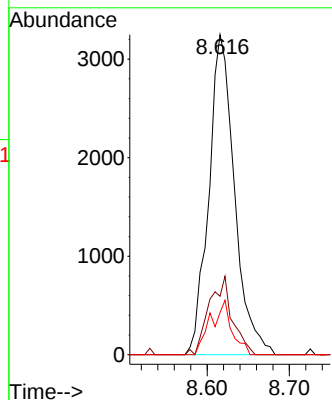
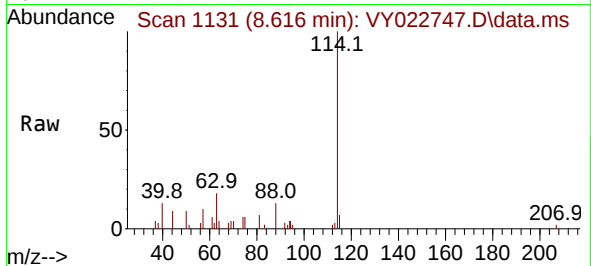




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.616 min Scan# 1131
 Delta R.T. -0.000 min
 Lab File: VY022747.D
 Acq: 19 Jun 2025 11:51

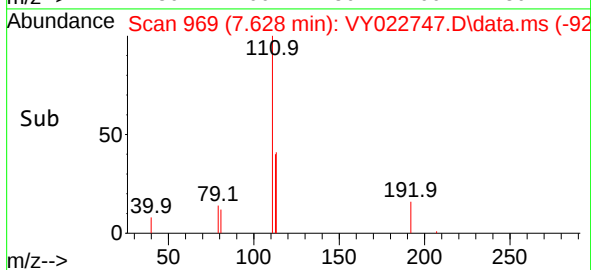
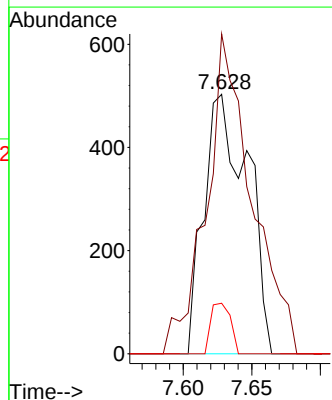
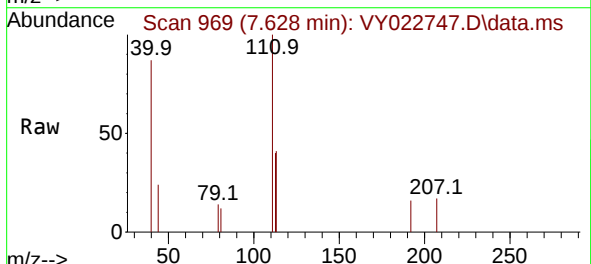
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025RE

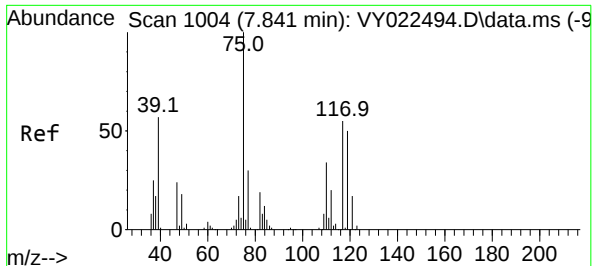
Tgt Ion:	114	Resp:	7080
Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	40.8
88	13.2	0.0	27.8



#35
 Dibromofluoromethane
 Concen: 26.456 ug/l
 RT: 7.628 min Scan# 969
 Delta R.T. -0.012 min
 Lab File: VY022747.D
 Acq: 19 Jun 2025 11:51

Tgt Ion:	113	Resp:	1118
Ion	Ratio	Lower	Upper
113	100		
111	127.5	81.1	121.7#
192	8.8	14.2	21.2#





#36

1,1-Dichloropropene

Concen: 7.115 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.140 min

Lab File: VY022747.D

Acq: 19 Jun 2025 11:51

Instrument :

MSVOA_Y

ClientSampleId :

TR-06-06182025RE

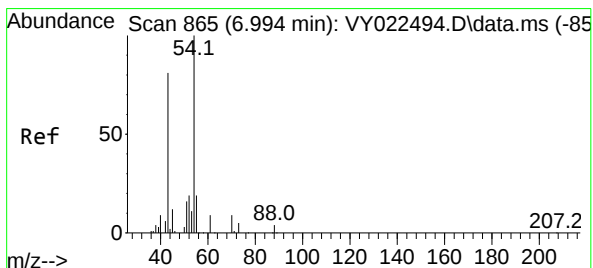
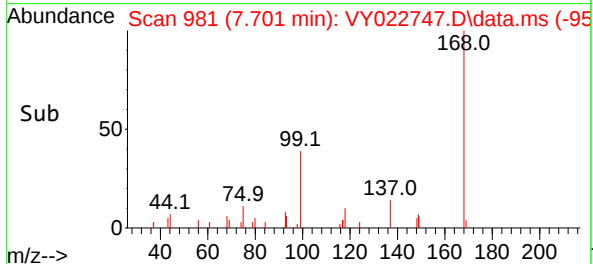
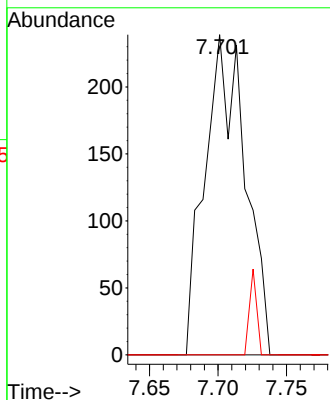
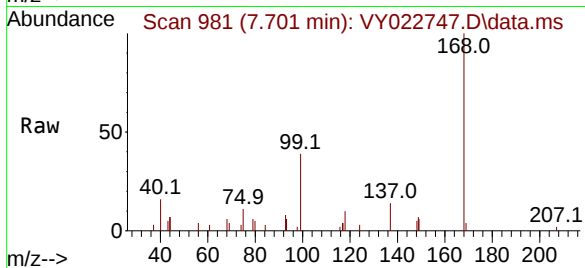
Tgt Ion: 75 Resp: 488

Ion Ratio Lower Upper

75 100

110 0.0 16.9 50.7#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.602 ug/l

RT: 7.043 min Scan# 873

Delta R.T. 0.049 min

Lab File: VY022747.D

Acq: 19 Jun 2025 11:51

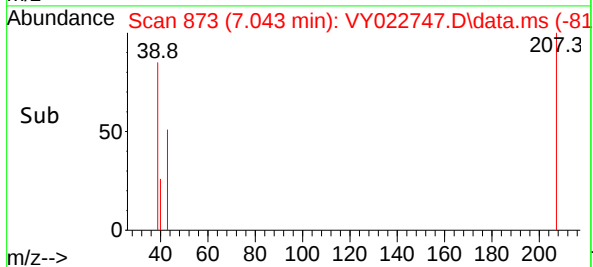
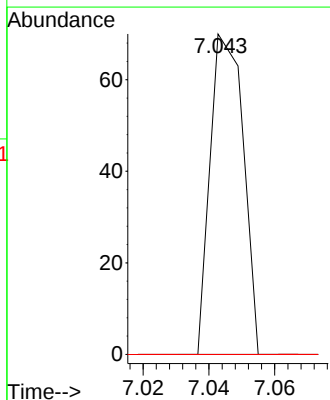
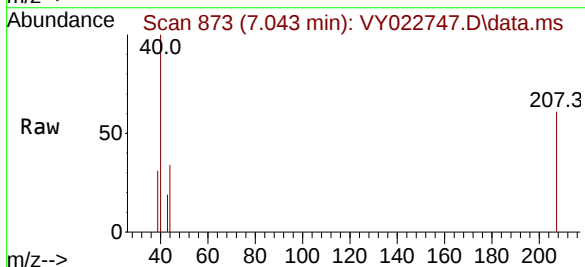
Tgt Ion: 43 Resp: 49

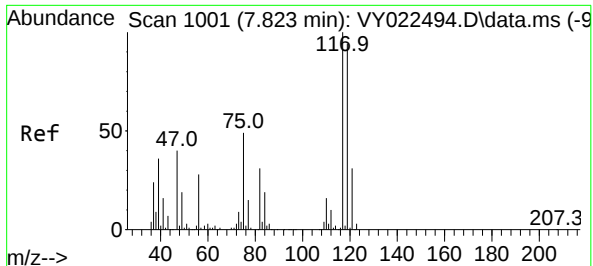
Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

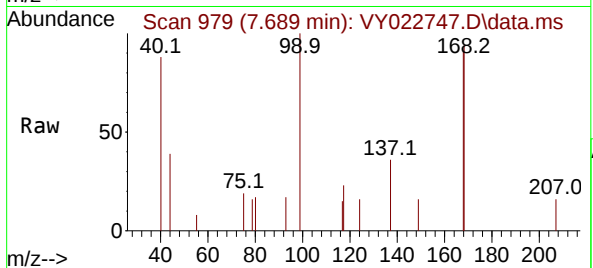
70 0.0 7.2 10.8#



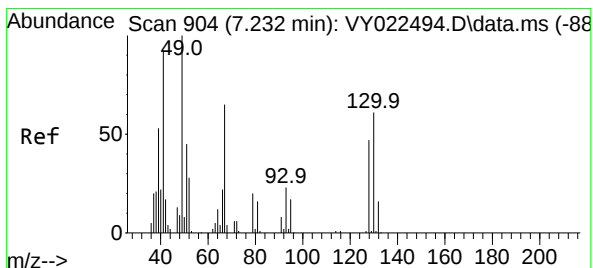
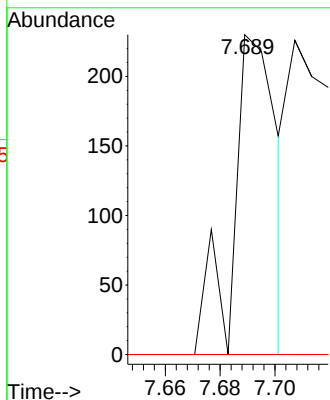
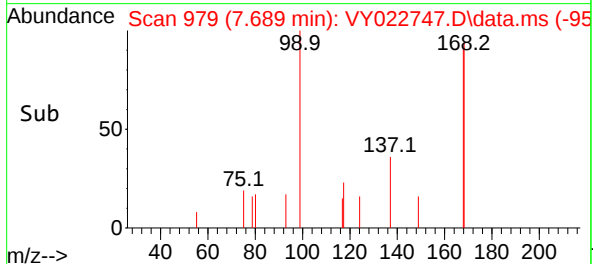


#38
Carbon Tetrachloride
Concen: 3.610 ug/l
RT: 7.689 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

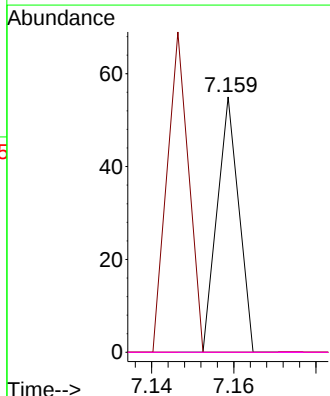
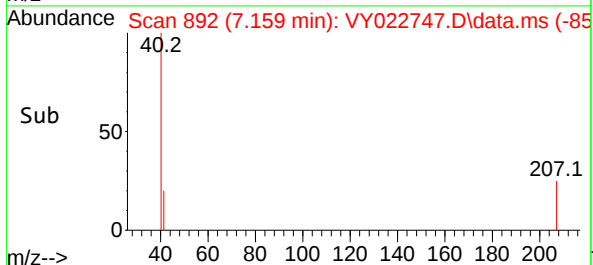
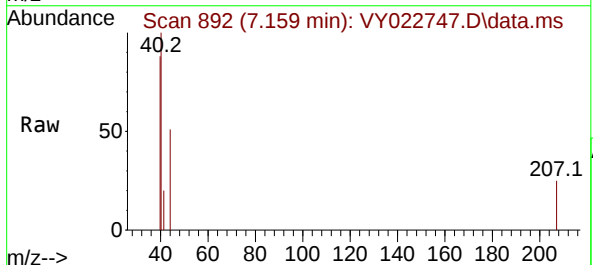


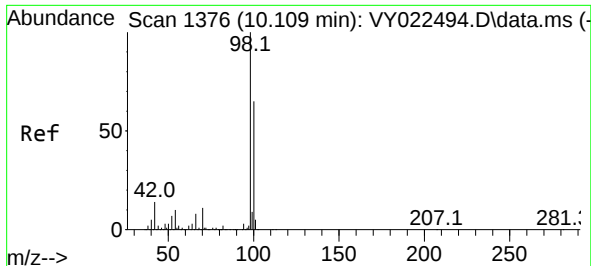
Tgt Ion:117 Resp: 254
Ion Ratio Lower Upper
117 100
119 0.0 75.0 112.6#
121 0.0 25.0 37.4#



#41
Methacrylonitrile
Concen: 1.119 ug/l
RT: 7.159 min Scan# 892
Delta R.T. -0.073 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 41 Resp: 20
Ion Ratio Lower Upper
41 100
39 125.0 46.6 69.8#
67 0.0 63.3 94.9#
52 0.0 27.5 41.3#

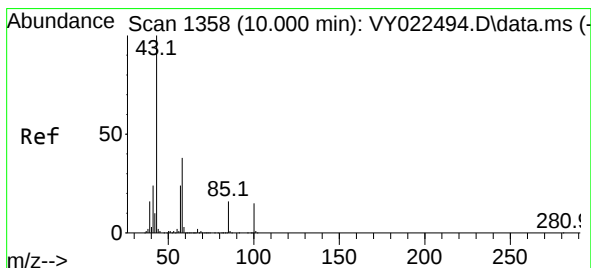
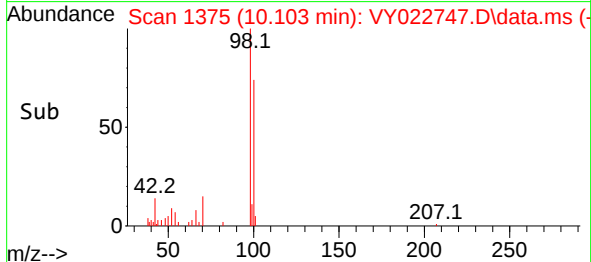
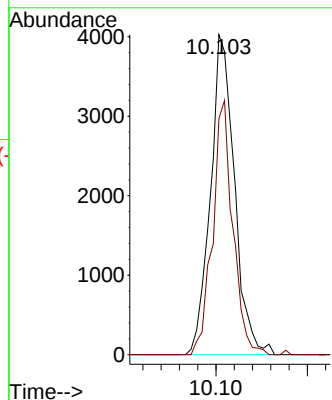
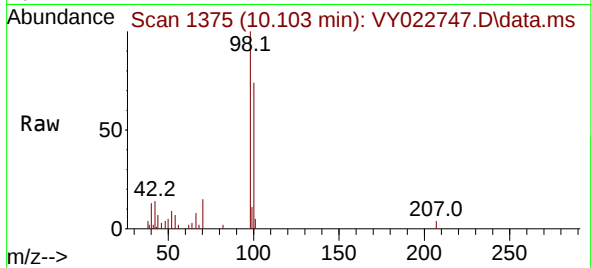




#50
Toluene-d8
Concen: 42.980 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

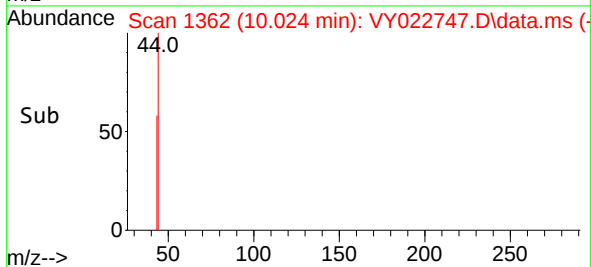
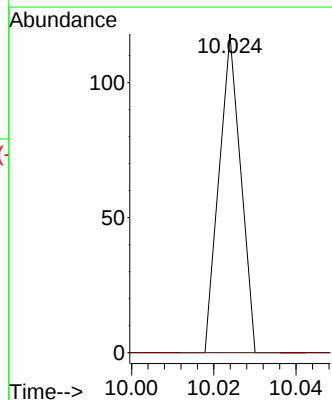
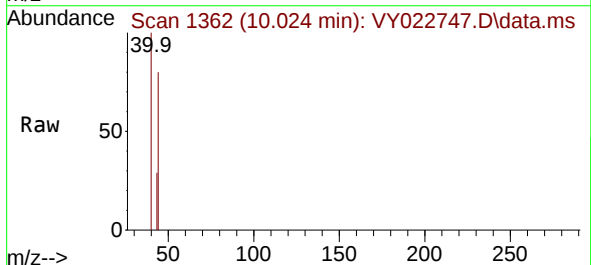
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

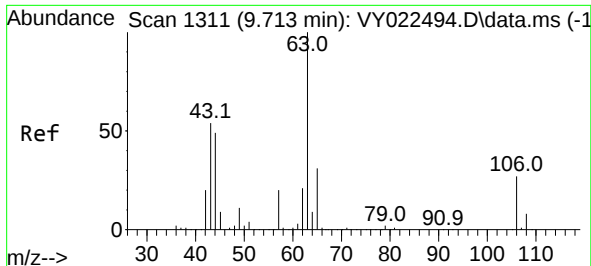
Tgt Ion: 98 Resp: 7339
Ion Ratio Lower Upper
98 100
100 66.7 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.306 ug/l
RT: 10.024 min Scan# 1362
Delta R.T. 0.024 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#

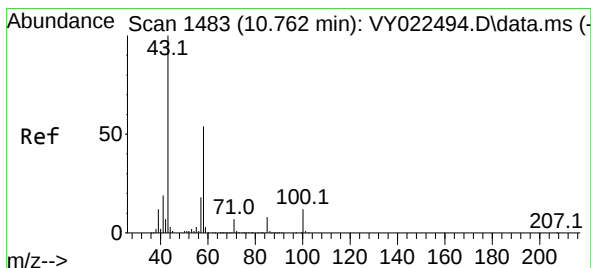
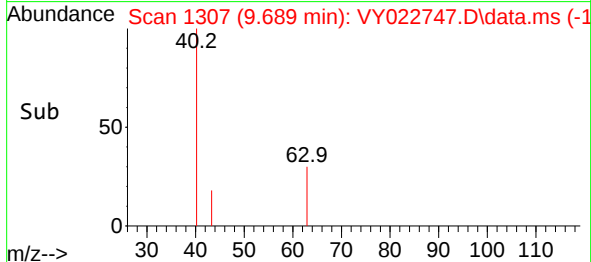
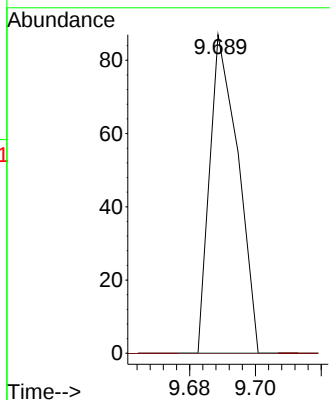
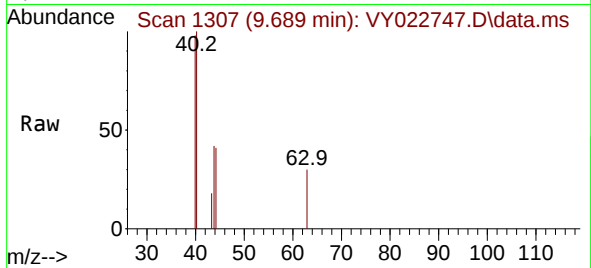




#58
2-Chloroethyl Vinyl ether
Concen: 2.307 ug/l
RT: 9.689 min Scan# 11
Delta R.T. -0.024 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

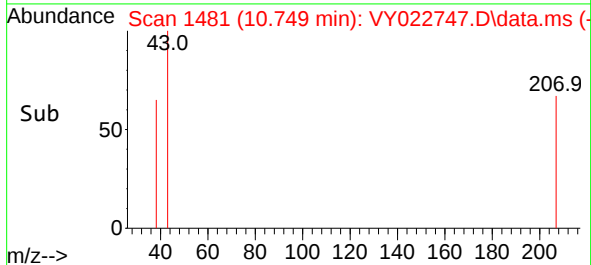
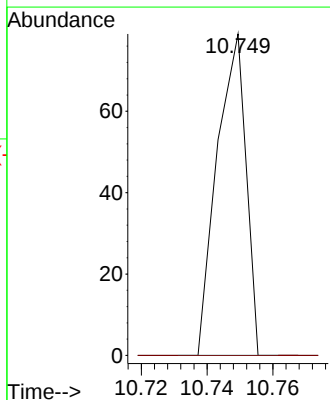
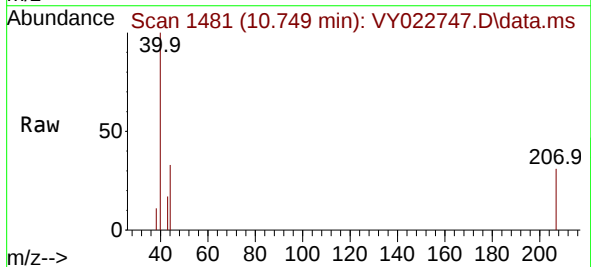
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

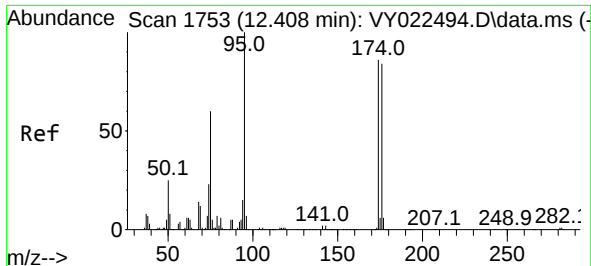
Tgt Ion: 63 Resp: 52
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#59
2-Hexanone
Concen: 2.179 ug/l
RT: 10.749 min Scan# 1481
Delta R.T. -0.012 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 43 Resp: 48
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

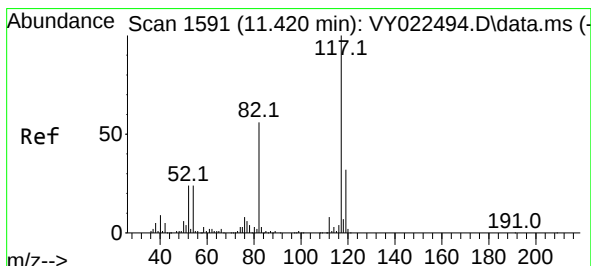
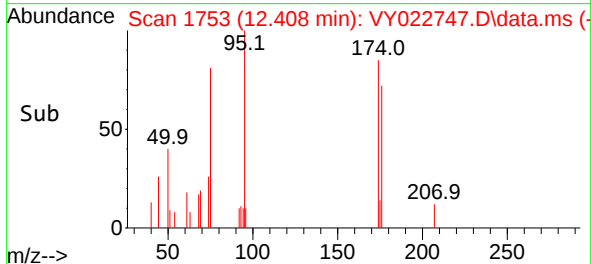
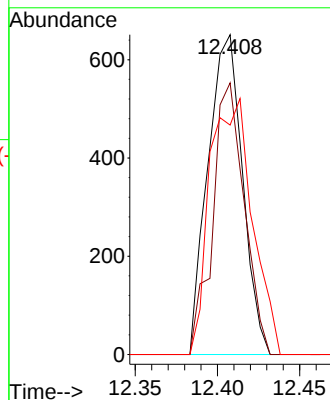
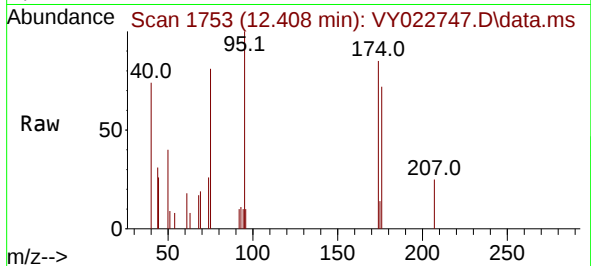




#62
4-Bromofluorobenzene
Concen: 18.673 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

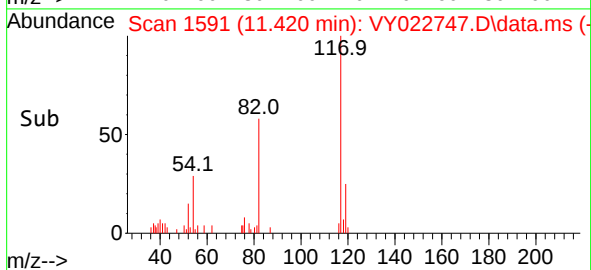
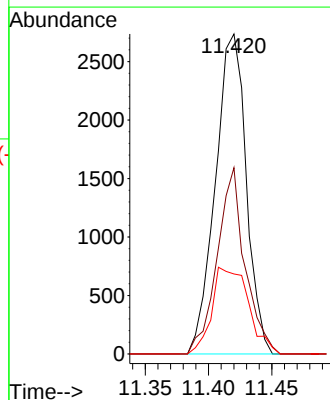
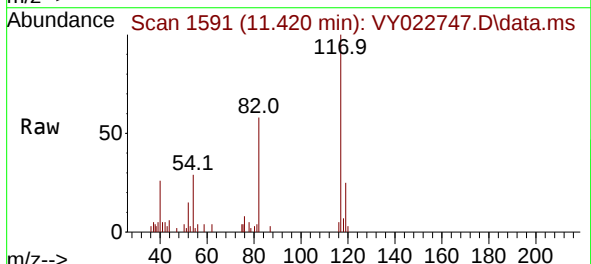
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

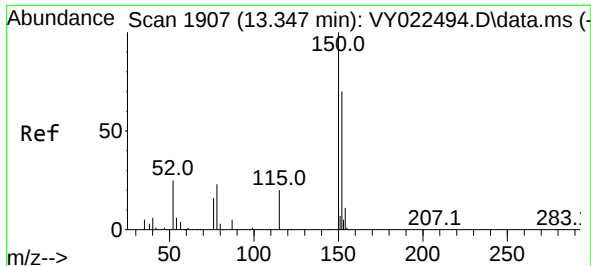
Tgt Ion:	95	Resp:	950
Ion Ratio	Lower	Upper	
95	100		
174	77.9	0.0	170.0
176	98.6	0.0	166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion:	117	Resp:	4641
Ion Ratio	Lower	Upper	
117	100		
82	58.2	44.6	66.8
119	25.0	25.4	38.0

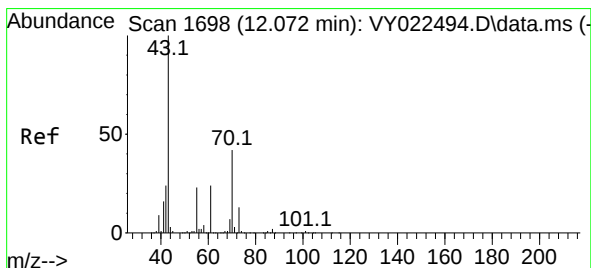
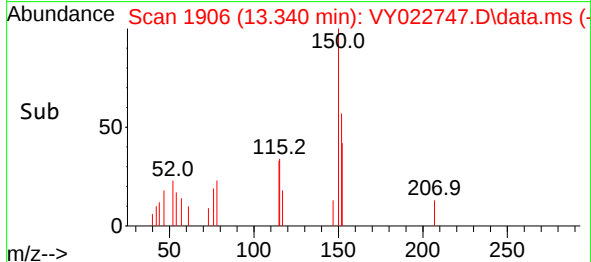
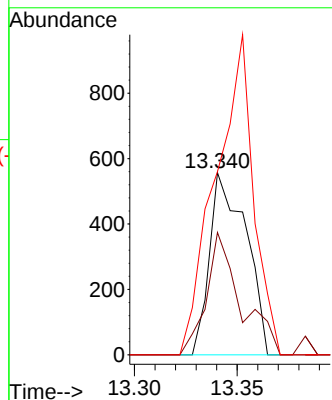
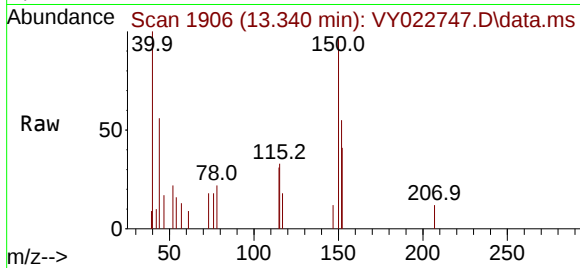




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.340 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VY022747.D
 Acq: 19 Jun 2025 11:51

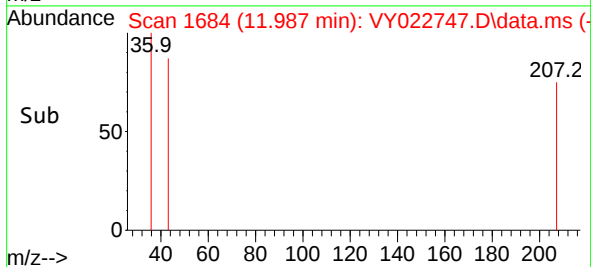
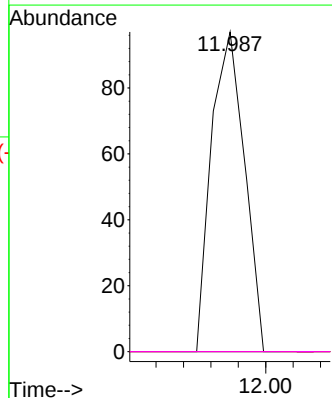
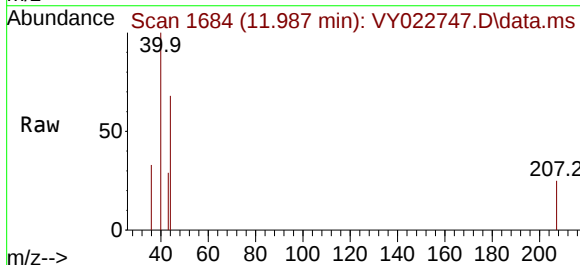
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025RE

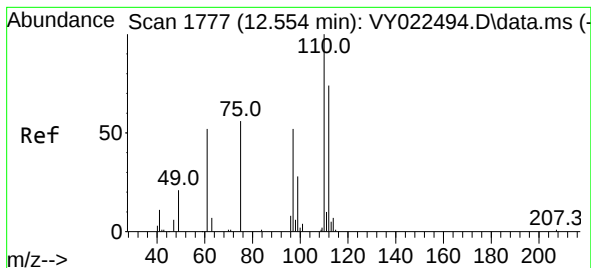
Tgt Ion:	152	Resp:	684
Ion	Ratio	Lower	Upper
152	100		
115	63.2	28.9	86.7
150	183.0	0.0	349.6



#74
 N-ethyl acetate
 Concen: 5.717 ug/l
 RT: 11.987 min Scan# 1684
 Delta R.T. -0.085 min
 Lab File: VY022747.D
 Acq: 19 Jun 2025 11:51

Tgt Ion:	43	Resp:	81
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.2	51.2#
55	0.0	18.2	27.4#
61	0.0	19.0	28.6#

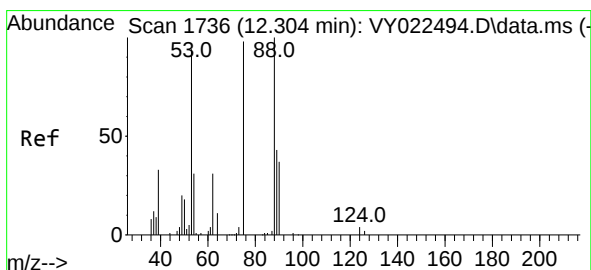
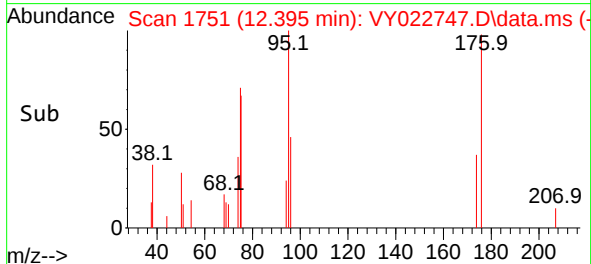
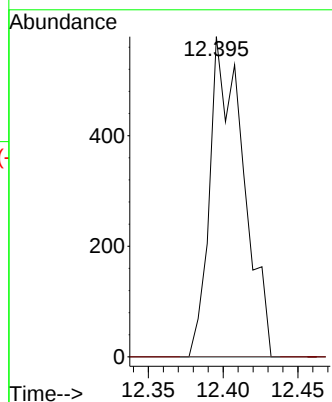
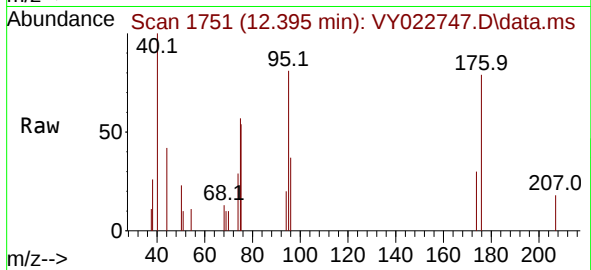




#76
1,2,3-Trichloropropane
Concen: 114.885 ug/l
RT: 12.395 min Scan# 1751
Delta R.T. -0.159 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

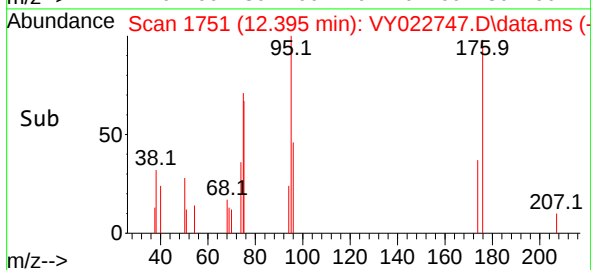
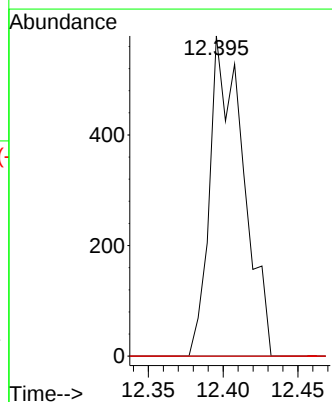
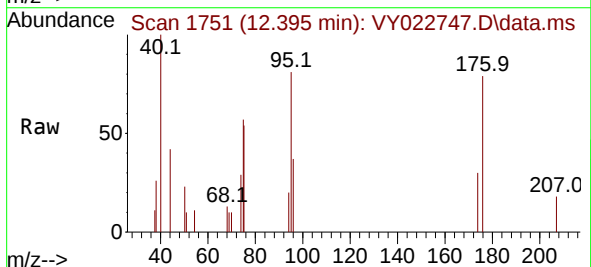
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

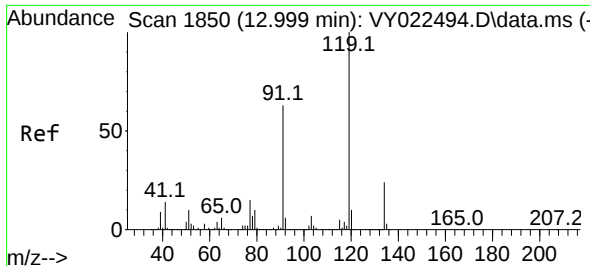
Tgt Ion: 75 Resp: 899
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 277.440 ug/l
RT: 12.395 min Scan# 1751
Delta R.T. 0.091 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion: 75 Resp: 899
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 35.7 53.5#

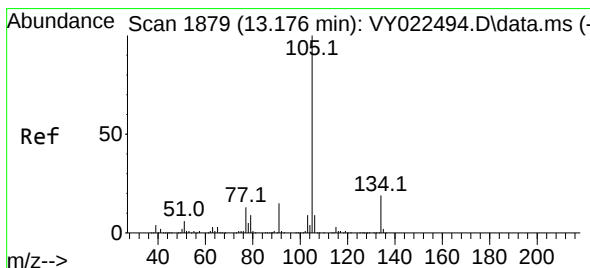
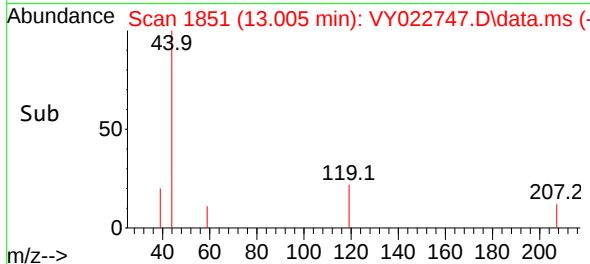
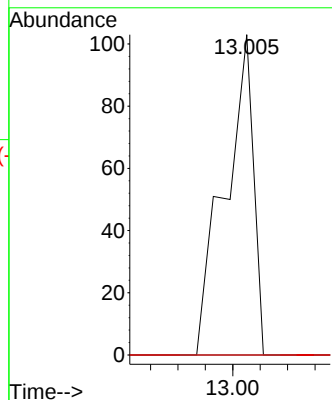
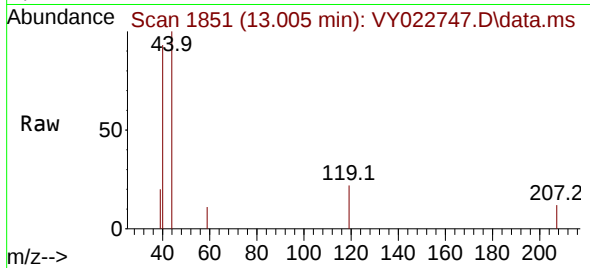




#83
tert-Butylbenzene
Concen: 1.895 ug/l
RT: 13.005 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

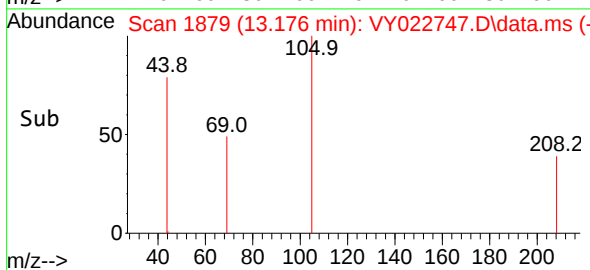
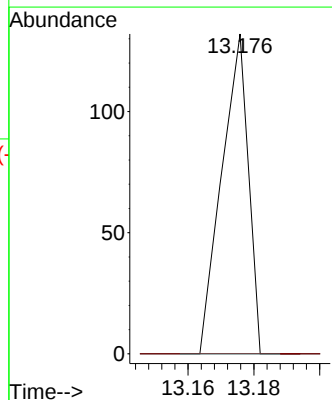
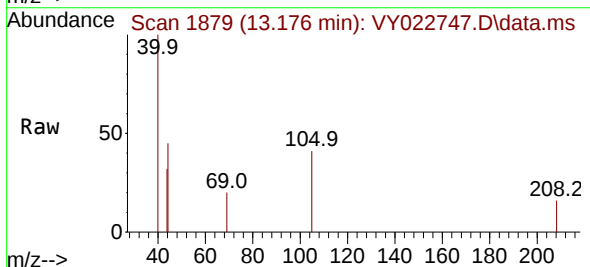
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

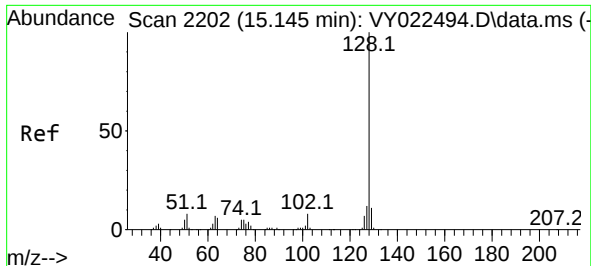
Tgt Ion:119 Resp: 75
Ion Ratio Lower Upper
119 100
91 0.0 32.1 96.3#
134 0.0 13.0 38.9#



#85
sec-Butylbenzene
Concen: 1.221 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. -0.000 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion:105 Resp: 74
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#

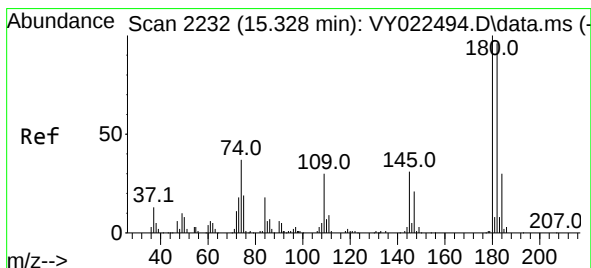
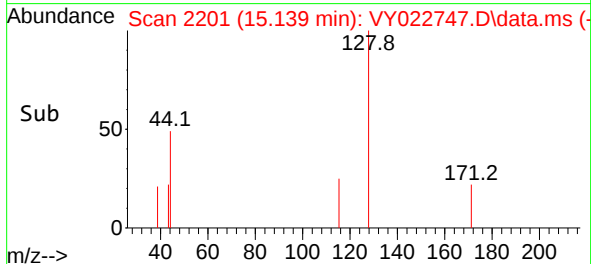
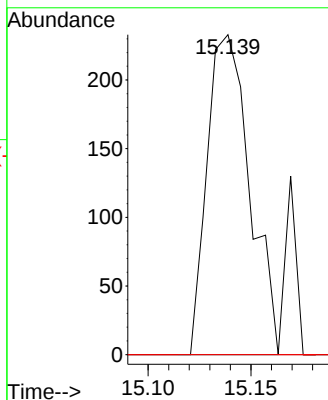
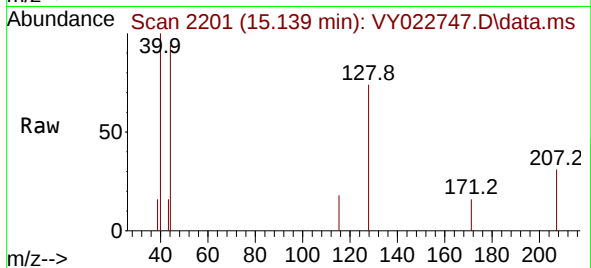




#95
Naphthalene
Concen: 15.795 ug/l
RT: 15.139 min Scan# 211
Delta R.T. -0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025RE

Tgt Ion:128 Resp: 337
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 4.198 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY022747.D
Acq: 19 Jun 2025 11:51

Tgt Ion:180 Resp: 40
Ion Ratio Lower Upper
180 100
182 0.0 47.1 141.3#
145 0.0 15.2 45.6#

