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 Data File : VY013561.D
 Acq On : 02 May 2023 16:57
 Operator : KP/MD
 Sample : 02569-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

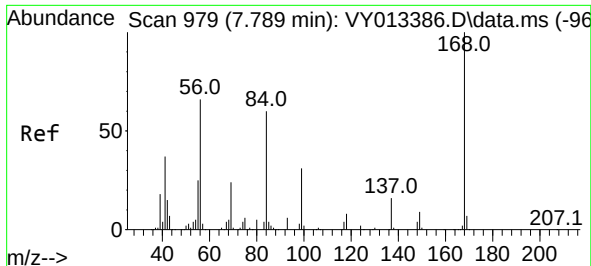
Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-339

Quant Time: May 03 01:34:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.801	168	586	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.691	114	1356	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	1156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	99	50.000	ug/l	# 0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	1322	205.795	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 411.600%#	
35) Dibromofluoromethane	7.710	113	739	86.649	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 173.300%#	
50) Toluene-d8	10.179	98	1807	59.559	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 119.120%	
62) 4-Bromofluorobenzene	12.477	95	83	8.115	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 16.220%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.174	50	19	2.544	ug/l	# 42
5) Bromomethane	2.668	94	65	10.970	ug/l	# 61
6) Chloroethane	2.820	64	101	19.663	ug/l	# 44
10) Methyl Iodide	4.095	142	142	17.894	ug/l	# 39
12) 1,1-Dichloroethene	3.735	96	22	3.612	ug/l	# 1
13) Acrolein	3.668	56	23	33.303	ug/l	# 16
14) Allyl chloride	4.503	41	95	8.407	ug/l	# 22
16) Acetone	3.954	43	23	9.092	ug/l	# 43
18) Methyl Acetate	4.399	43	26	3.112	ug/l	# 51
19) Methyl tert-butyl Ether	5.235	73	75	4.266	ug/l	# 53
20) Methylene Chloride	4.710	84	105	6.155	ug/l	# 27
22) Diisopropyl ether	6.015	45	44	1.992	ug/l	# 33
23) Vinyl Acetate	6.052	43	21	1.679	ug/l	# 72
25) 2-Butanone	6.948	43	22	6.857	ug/l	# 47
36) 1,1-Dichloropropene	7.783	75	57	4.027	ug/l	# 40
37) Ethyl Acetate	6.948	43	22	2.065	ug/l	# 69
41) Methacrylonitrile	7.478	41	34	6.850	ug/l	# 21
43) Isopropyl Acetate	8.307	43	20	1.112	ug/l	# 53
48) Methyl methacrylate	9.301	41	75	9.083	ug/l	# 12
53) t-1,3-Dichloropropene	10.350	75	19	1.286	ug/l	# 42
59) 2-Hexanone	10.593	43	20	2.746	ug/l	# 26
74) N-amyl acetate	12.118	43	19	7.130	ug/l	# 13
76) 1,2,3-Trichloropropane	12.550	75	25	18.725	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.489	75	56	85.797	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.392	75	50	154.681	ug/l	# 1

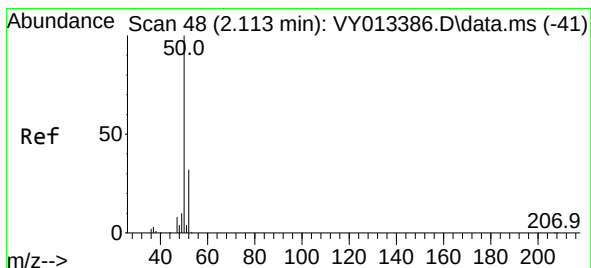
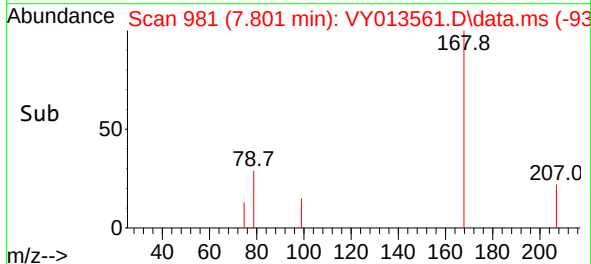
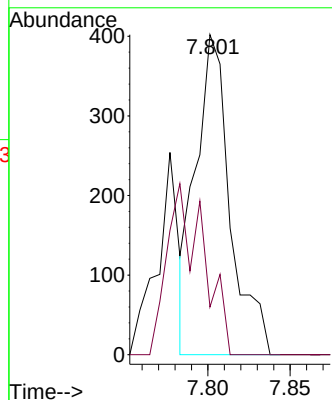
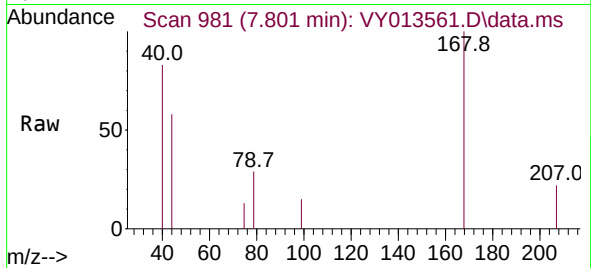
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

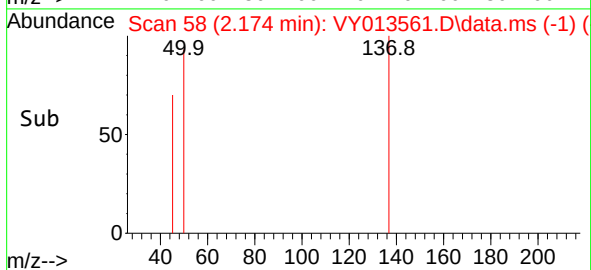
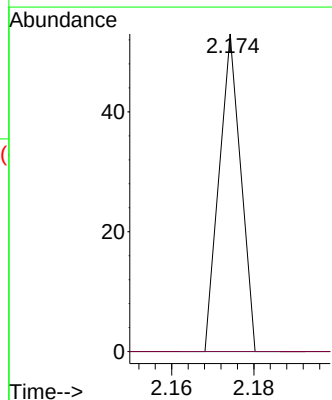
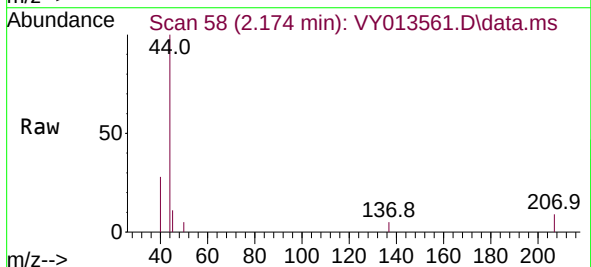
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

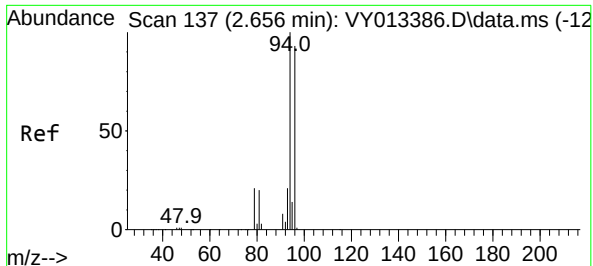
Tgt Ion:168 Resp: 586
Ion Ratio Lower Upper
168 100
99 14.9 41.8 62.6#



#3
Chloromethane
Concen: 2.544 ug/l
RT: 2.174 min Scan# 58
Delta R.T. 0.061 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 50 Resp: 19
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

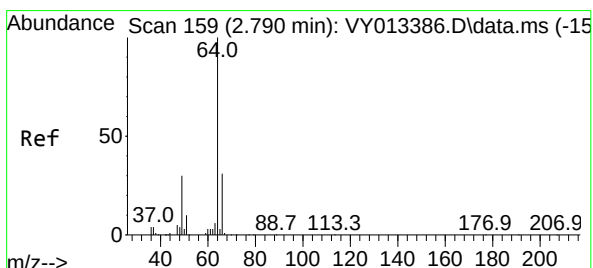
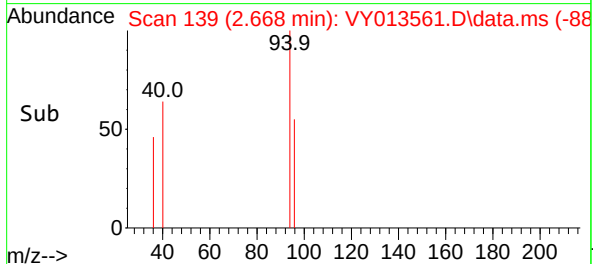
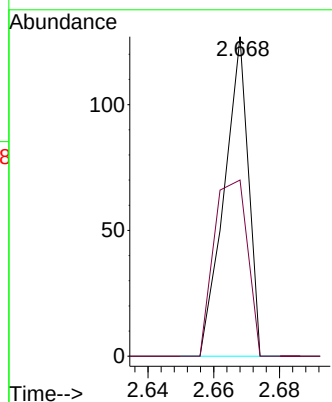
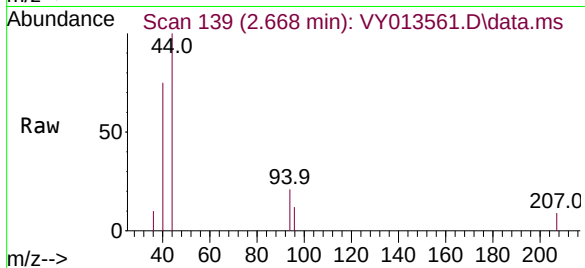




#5
Bromomethane
Concen: 10.970 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

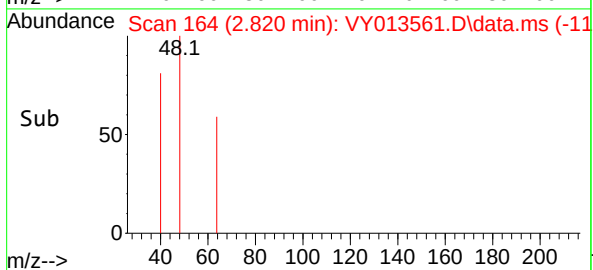
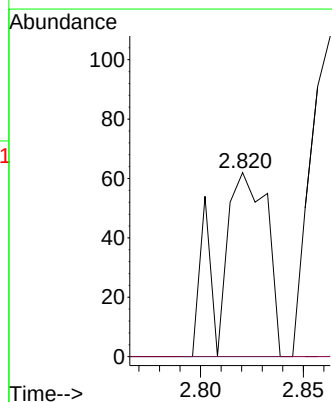
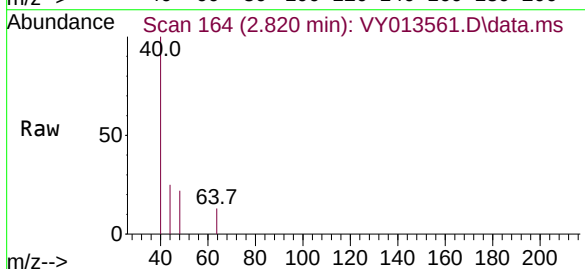
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

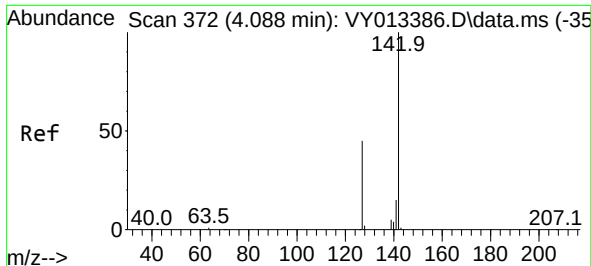
Tgt Ion: 94 Resp: 65
Ion Ratio Lower Upper
94 100
96 55.1 74.2 111.2#



#6
Chloroethane
Concen: 19.663 ug/l
RT: 2.820 min Scan# 164
Delta R.T. 0.030 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 64 Resp: 101
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#

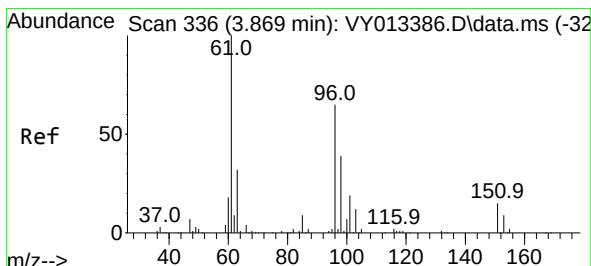
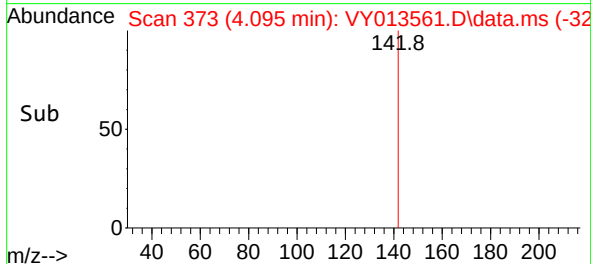
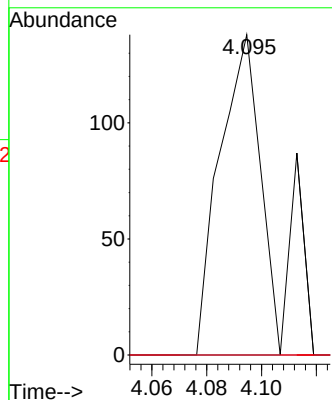
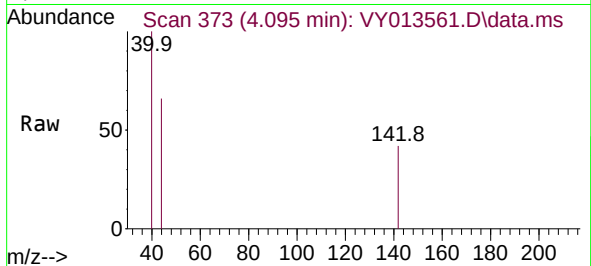




#10
Methyl Iodide
Concen: 17.894 ug/l
RT: 4.095 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

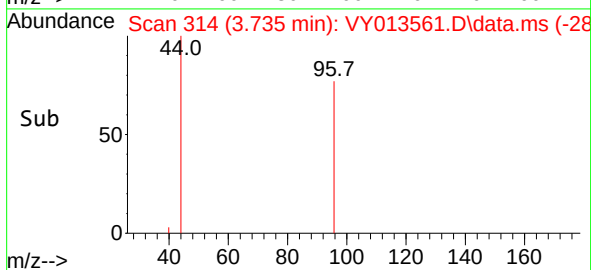
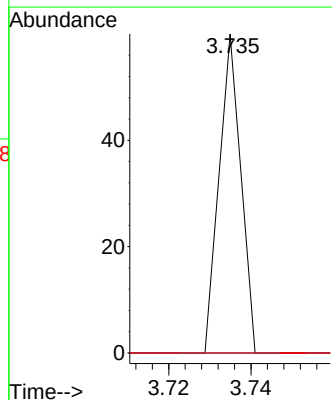
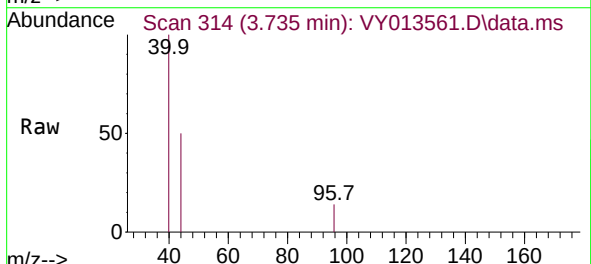
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

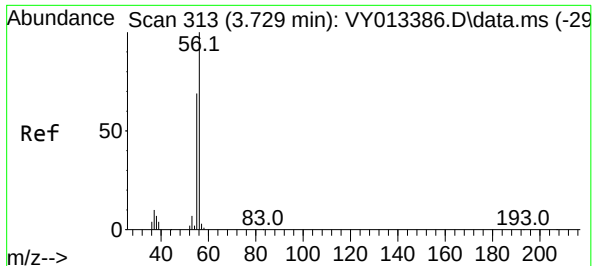
Tgt Ion:142 Resp: 142
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 3.612 ug/l
RT: 3.735 min Scan# 314
Delta R.T. -0.134 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 96 Resp: 22
Ion Ratio Lower Upper
96 100
61 0.0 123.9 185.9#
98 0.0 48.9 73.3#

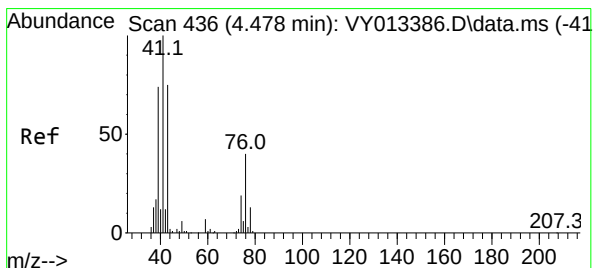
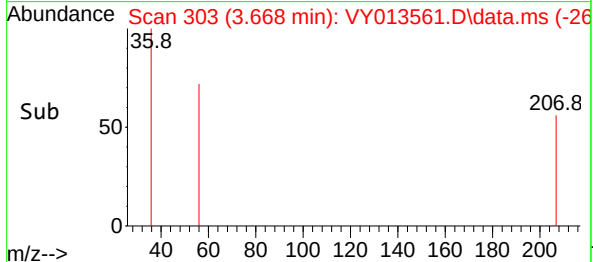
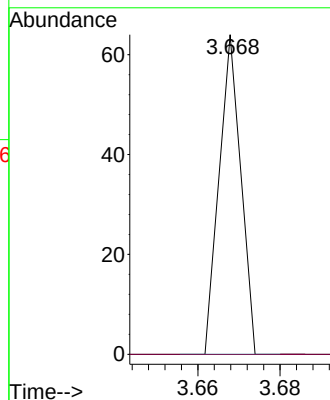
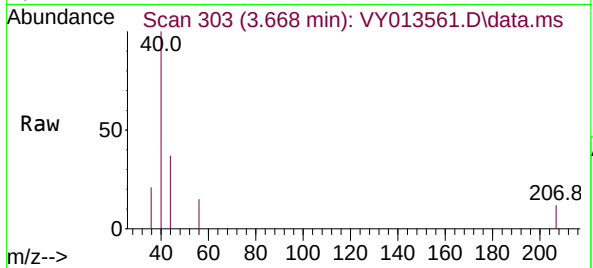




#13
Acrolein
Concen: 33.303 ug/l
RT: 3.668 min Scan# 303
Delta R.T. -0.061 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

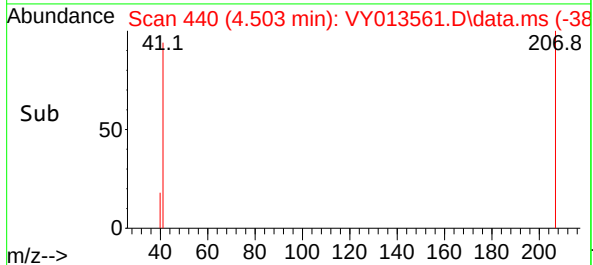
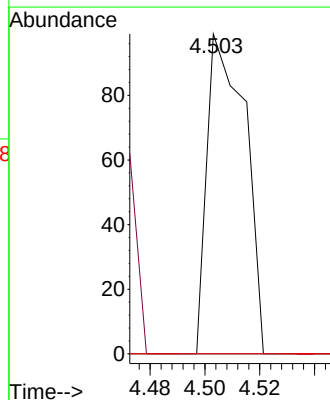
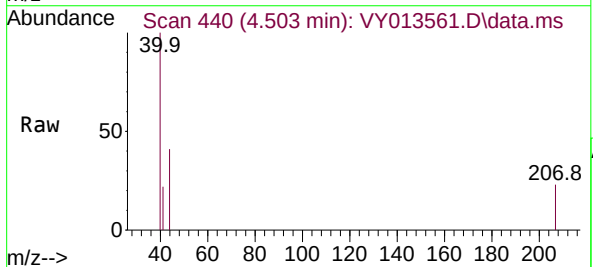
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

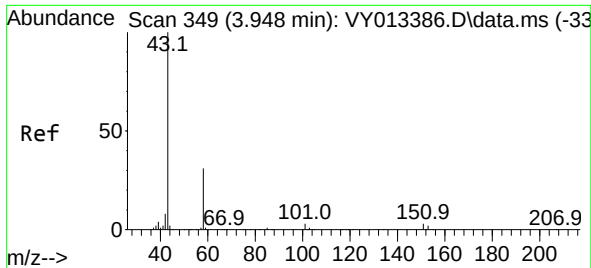
Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#14
Allyl chloride
Concen: 8.407 ug/l
RT: 4.503 min Scan# 440
Delta R.T. 0.025 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 41 Resp: 95
Ion Ratio Lower Upper
41 100
39 0.0 56.6 85.0#
76 0.0 30.5 45.7#





#16

Acetone

Concen: 9.092 ug/l

RT: 3.954 min Scan# 316

Delta R.T. 0.006 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

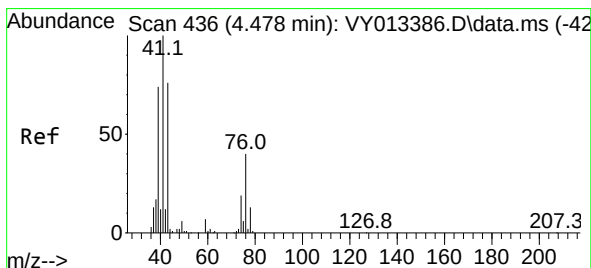
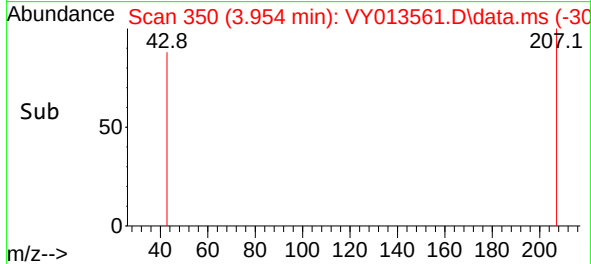
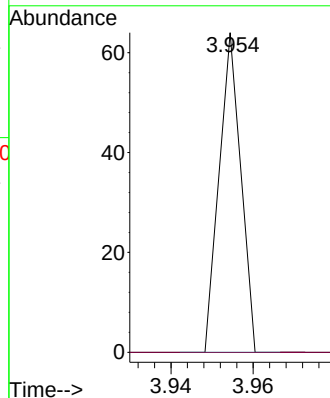
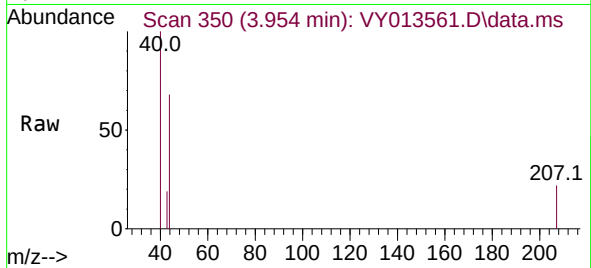
ETGI-339

Tgt Ion: 43 Resp: 23

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#18

Methyl Acetate

Concen: 3.112 ug/l

RT: 4.399 min Scan# 423

Delta R.T. -0.079 min

Lab File: VY013561.D

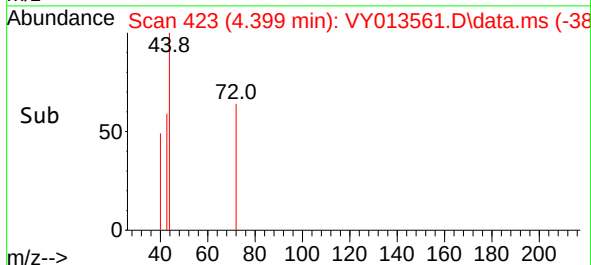
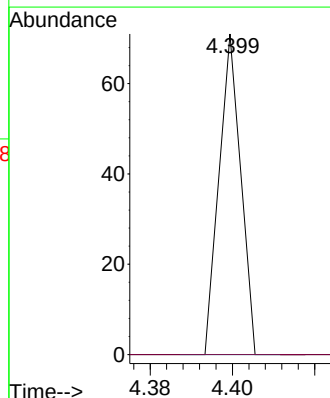
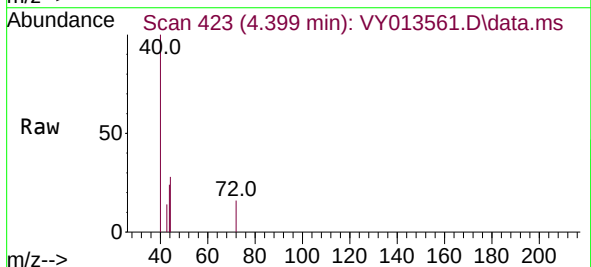
Acq: 02 May 2023 16:57

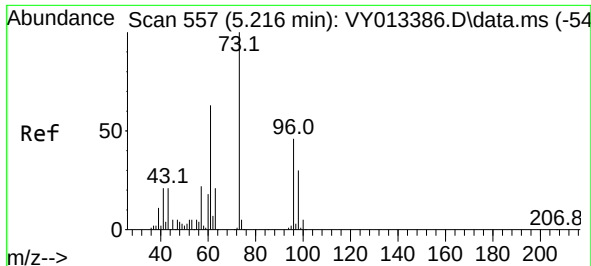
Tgt Ion: 43 Resp: 26

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#





#19

Methyl tert-butyl Ether

Concen: 4.266 ug/l

RT: 5.235 min Scan# 5

Delta R.T. 0.019 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

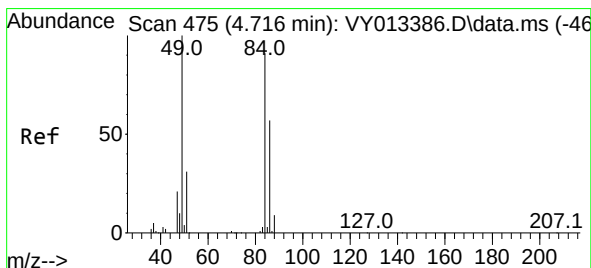
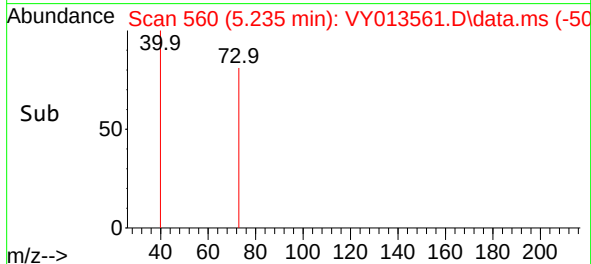
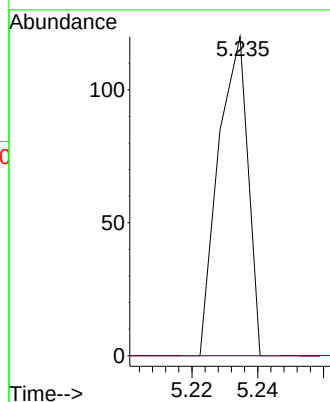
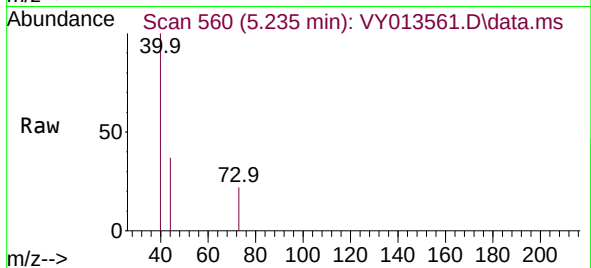
ETGI-339

Tgt Ion: 73 Resp: 75

Ion Ratio Lower Upper

73 100

57 0.0 17.8 26.8#



#20

Methylene Chloride

Concen: 6.155 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

Tgt Ion: 84 Resp: 105

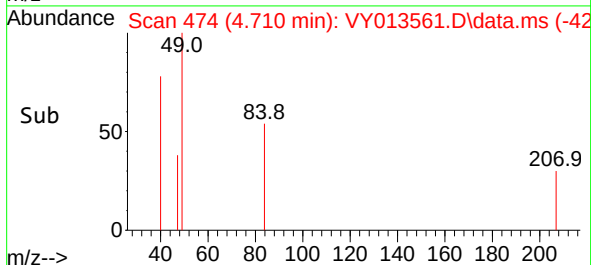
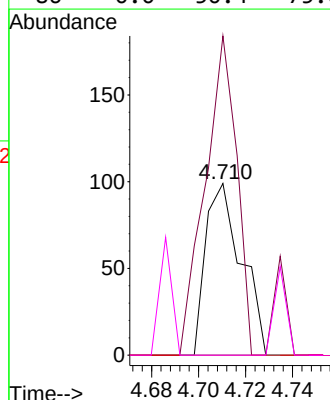
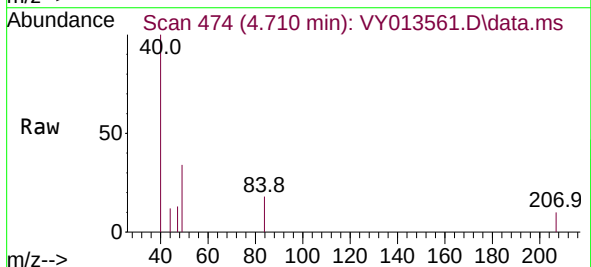
Ion Ratio Lower Upper

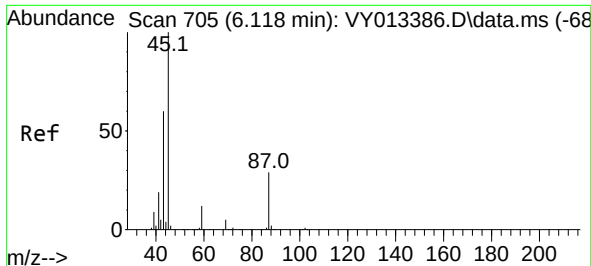
84 100

49 185.9 88.0 132.0#

51 0.0 27.4 41.0#

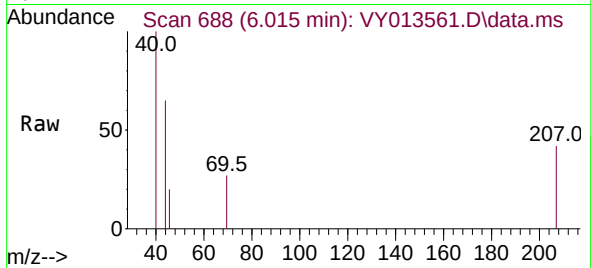
86 0.0 50.4 75.6#



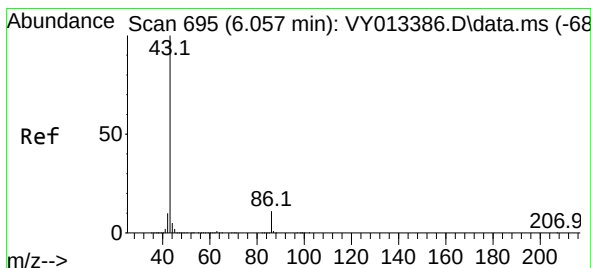
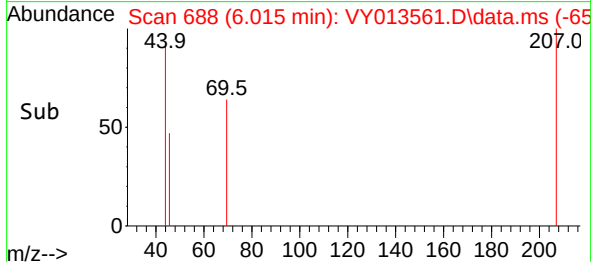
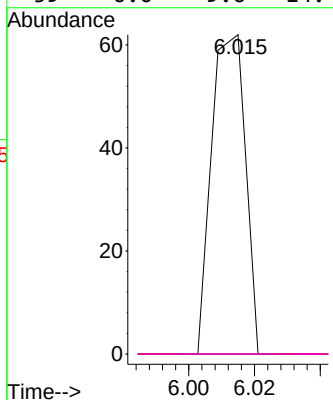


#22
Diisopropyl ether
Concen: 1.992 ug/l
RT: 6.015 min Scan# 61
Delta R.T. -0.103 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

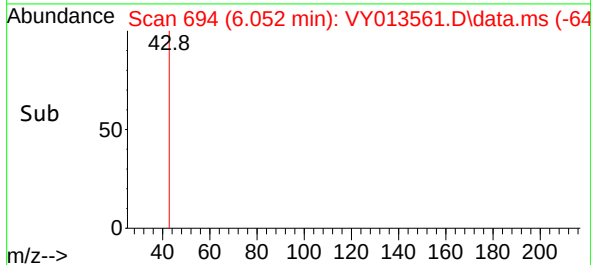
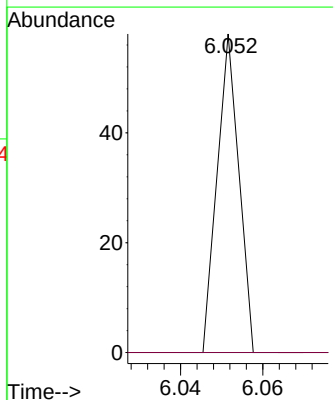
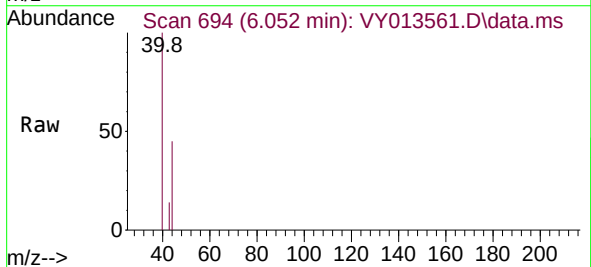


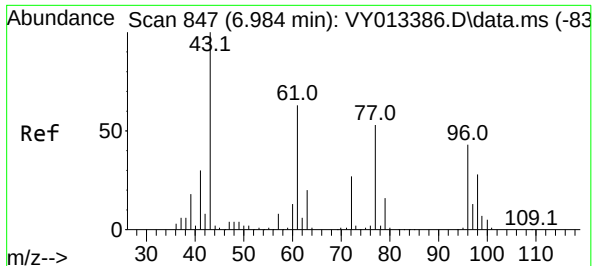
Tgt Ion: 45	Resp: 44
Ion Ratio	Lower Upper
45	100
43	0.0 48.4 72.6#
87	0.0 23.8 35.6#
59	0.0 9.6 14.4#



#23
Vinyl Acetate
Concen: 1.679 ug/l
RT: 6.052 min Scan# 694
Delta R.T. -0.005 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 43	Resp: 21
Ion Ratio	Lower Upper
43	100
86	0.0 8.5 12.7#





#25

2-Butanone

Concen: 6.857 ug/l

RT: 6.948 min Scan# 841

Delta R.T. -0.036 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

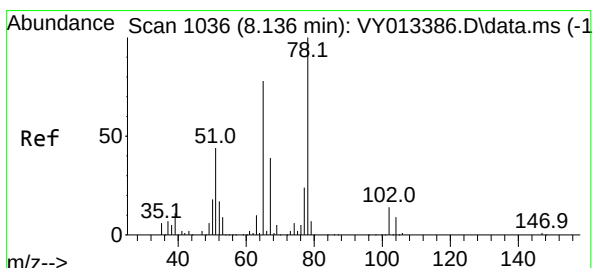
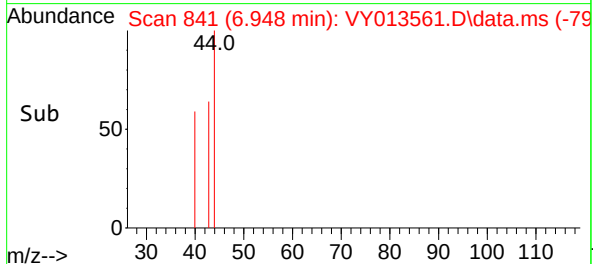
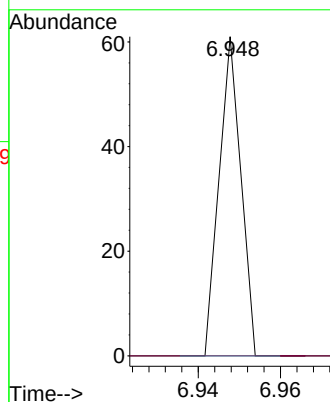
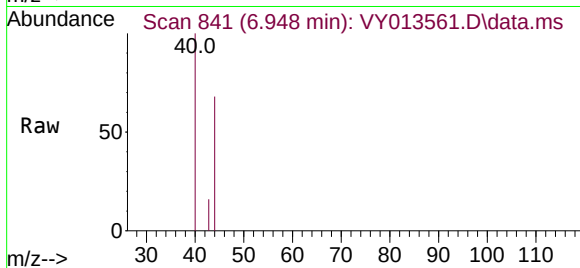
ETGI-339

Tgt Ion: 43 Resp: 22

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



#33

1,2-Dichloroethane-d4

Concen: 205.795 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.007 min

Lab File: VY013561.D

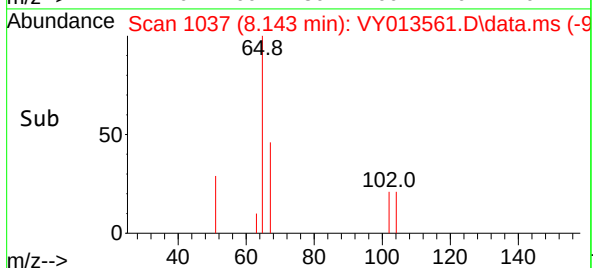
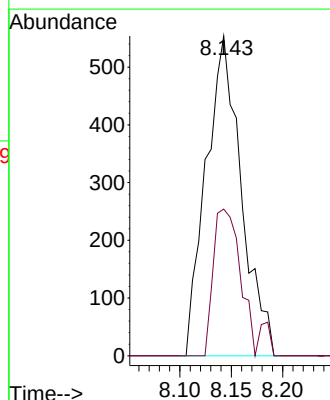
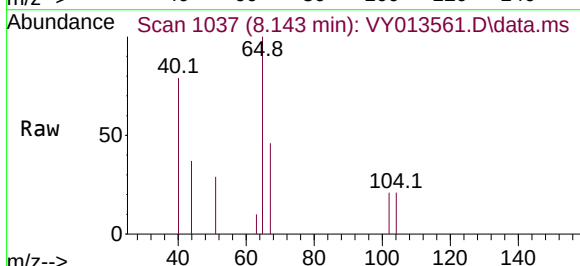
Acq: 02 May 2023 16:57

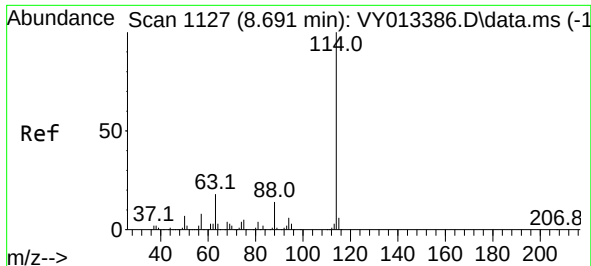
Tgt Ion: 65 Resp: 1322

Ion Ratio Lower Upper

65 100

67 34.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

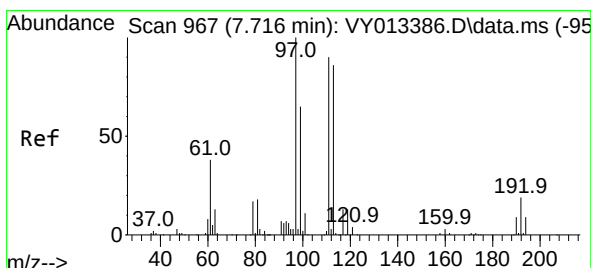
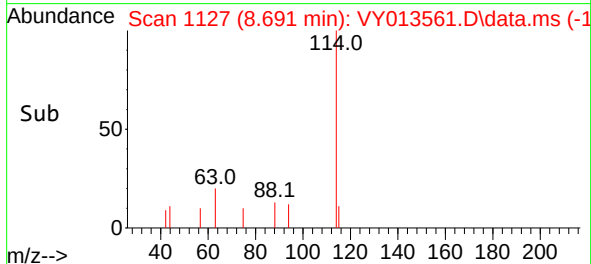
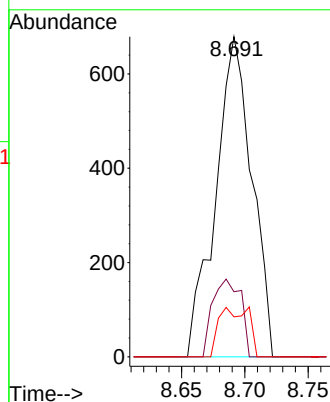
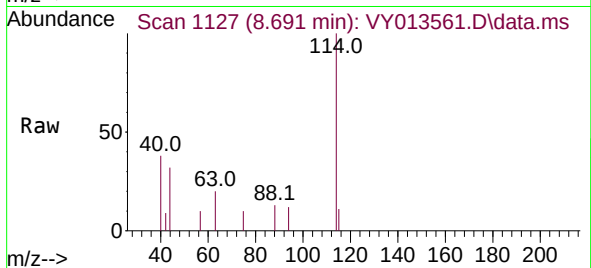
Instrument :

MSVOA_Y

ClientSampleId :

ETGI-339

Tgt Ion:114	Resp:	1356
Ion	Ratio	Lower Upper
114	100	
63	20.3	0.0 36.6
88	12.5	0.0 28.8



#35

Dibromofluoromethane

Concen: 86.649 ug/l

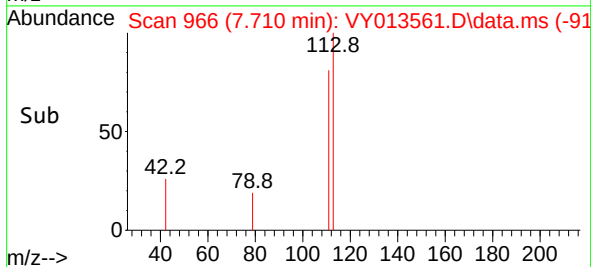
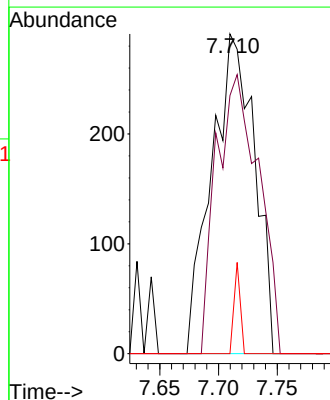
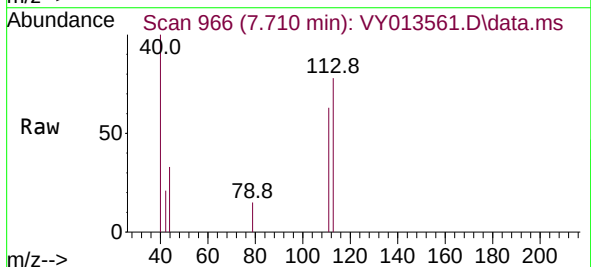
RT: 7.710 min Scan# 966

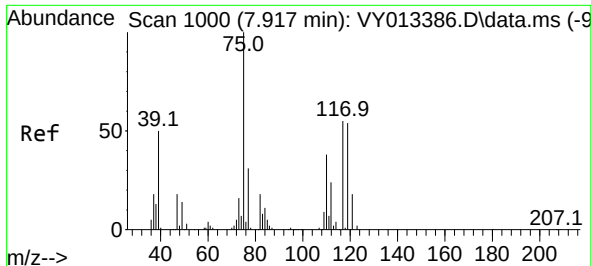
Delta R.T. -0.006 min

Lab File: VY013561.D

Acq: 02 May 2023 16:57

Tgt Ion:113	Resp:	739
Ion	Ratio	Lower Upper
113	100	
111	86.1	82.2 123.2
192	4.1	16.7 25.1

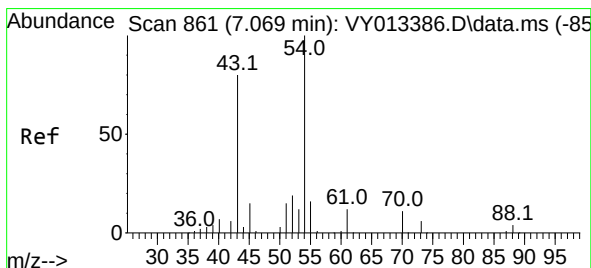
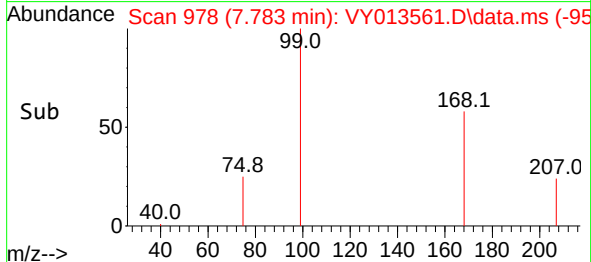
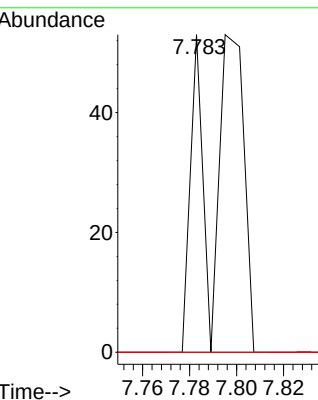
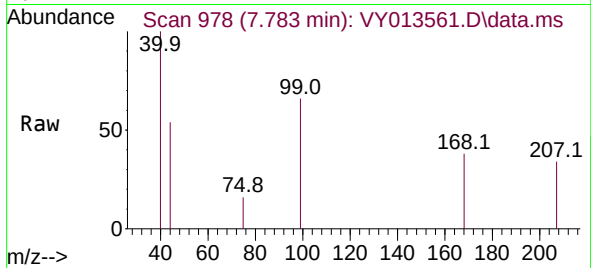




#36
1,1-Dichloropropene
Concen: 4.027 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

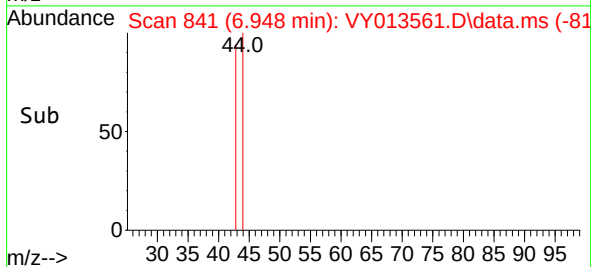
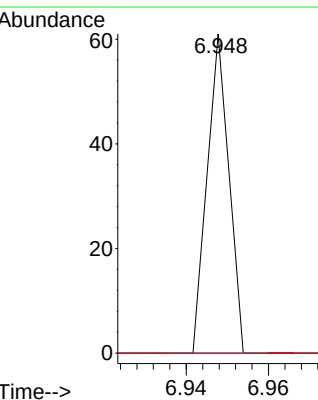
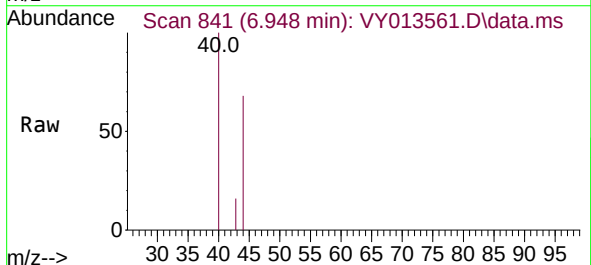
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

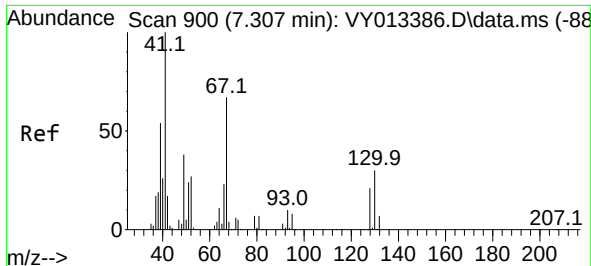
Tgt Ion: 75 Resp: 57
Ion Ratio Lower Upper
75 100
110 0.0 18.7 56.1#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 2.065 ug/l
RT: 6.948 min Scan# 841
Delta R.T. -0.121 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

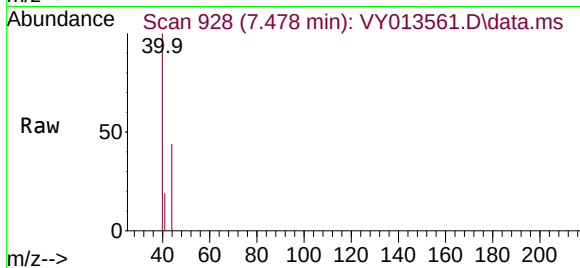
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.0 7.9 11.9#



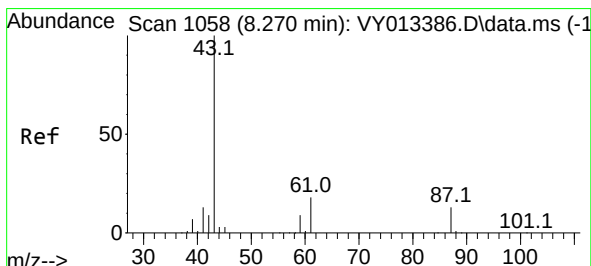
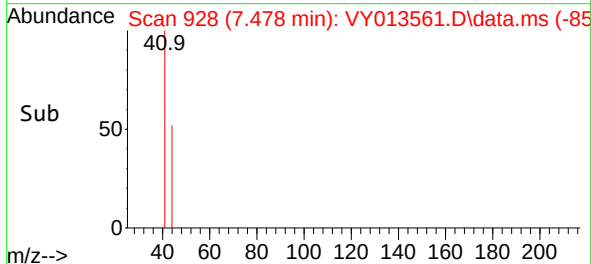
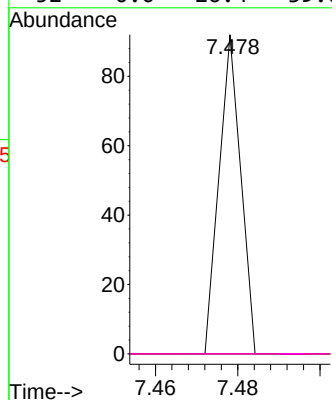


#41
Methacrylonitrile
Concen: 6.850 ug/l
RT: 7.478 min Scan# 91
Delta R.T. 0.171 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

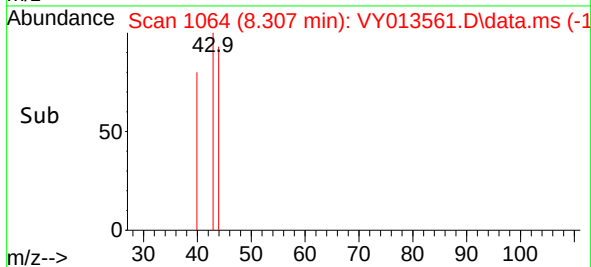
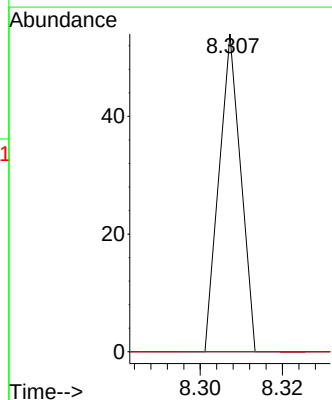
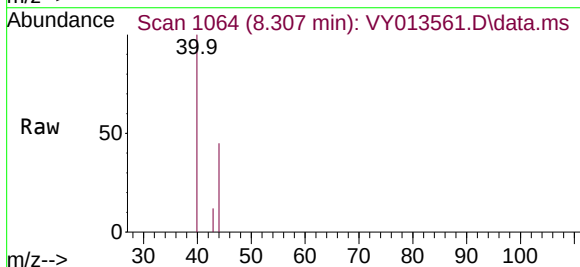


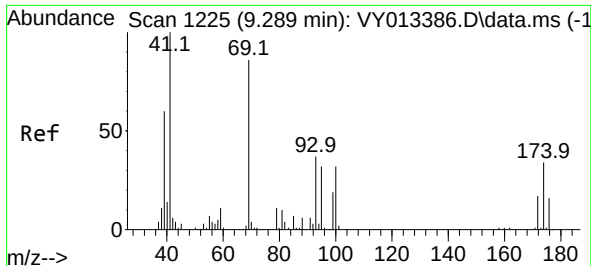
Tgt Ion: 41	Resp: 34
Ion Ratio	Lower Upper
41 100	
39 0.0	44.2 66.4#
67 0.0	62.9 94.3#
52 0.0	26.4 39.6#



#43
Isopropyl Acetate
Concen: 1.112 ug/l
RT: 8.307 min Scan# 1064
Delta R.T. 0.037 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 43	Resp: 20
Ion Ratio	Lower Upper
43 100	
61 0.0	22.2 33.4#
87 0.0	11.0 16.6#

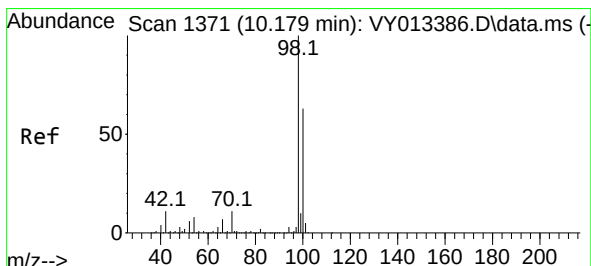
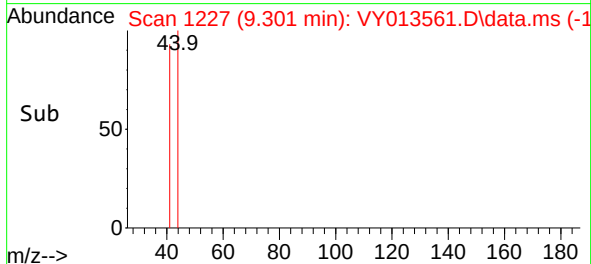
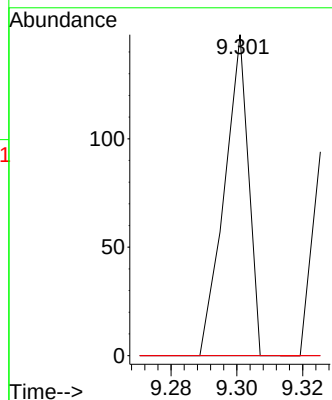
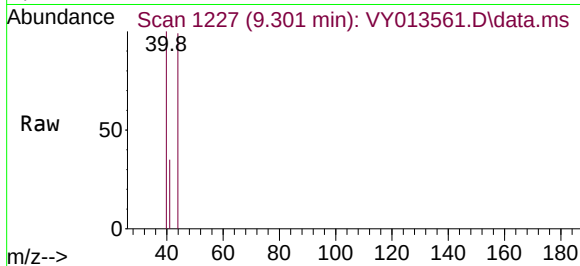




#48
Methyl methacrylate
Concen: 9.083 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. 0.012 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

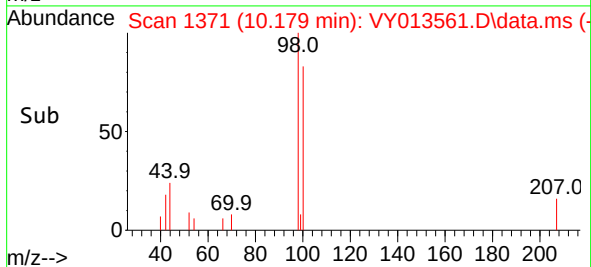
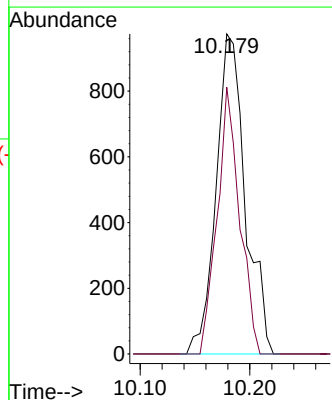
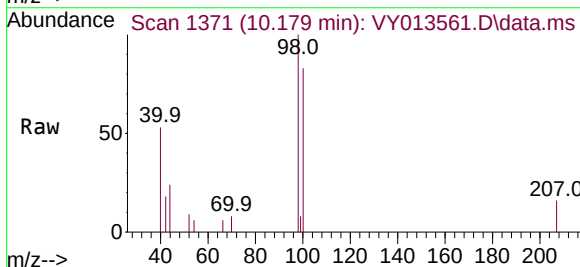
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

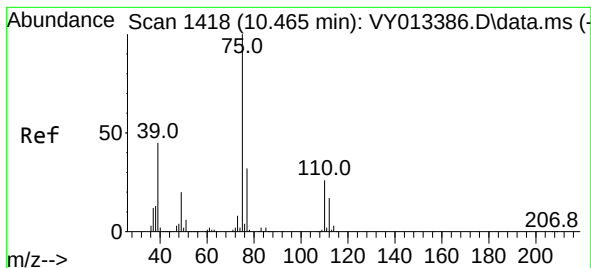
Tgt Ion: 41 Resp: 75
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 0.0 47.9 71.9#



#50
Toluene-d8
Concen: 59.559 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 98 Resp: 1807
Ion Ratio Lower Upper
98 100
100 63.8 50.5 75.7

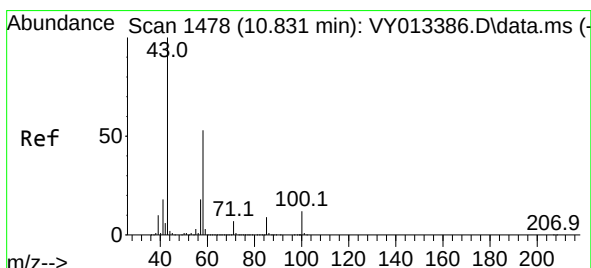
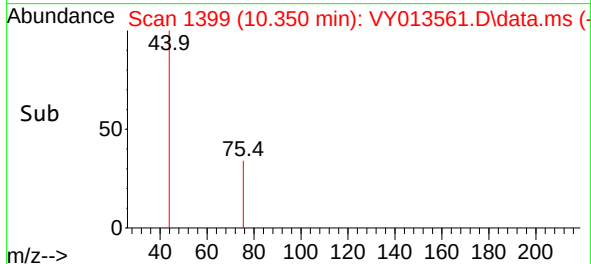
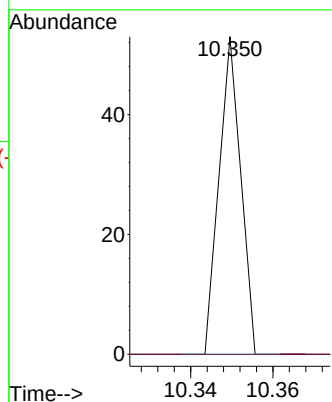
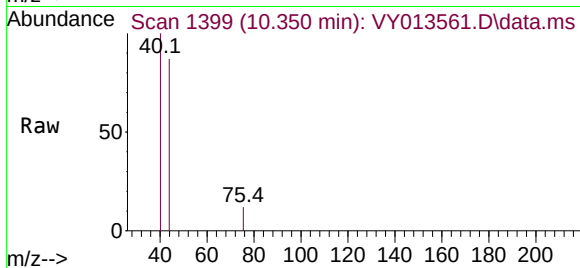




#53
t-1,3-Dichloropropene
Concen: 1.286 ug/l
RT: 10.350 min Scan# 11
Delta R.T. -0.115 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

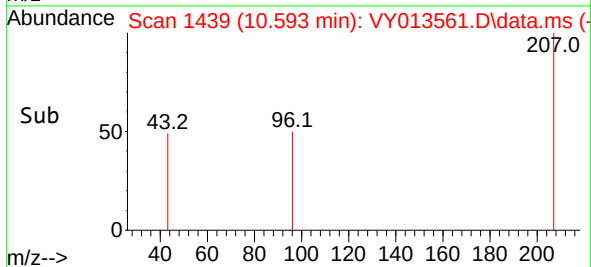
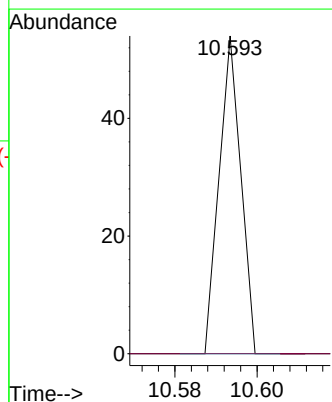
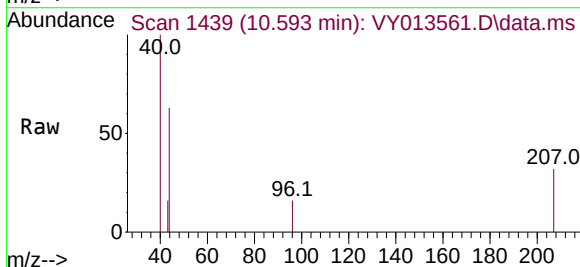
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

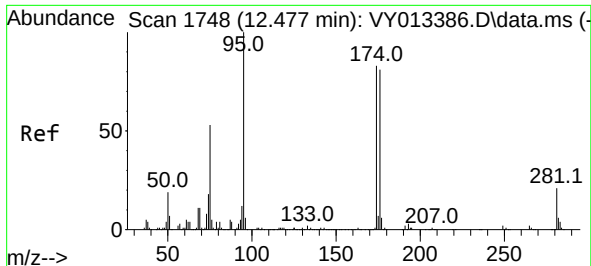
Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 2.746 ug/l
RT: 10.593 min Scan# 1439
Delta R.T. -0.238 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#

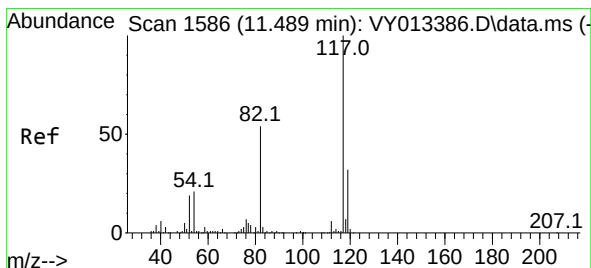
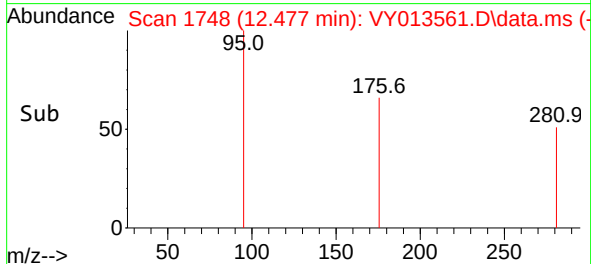
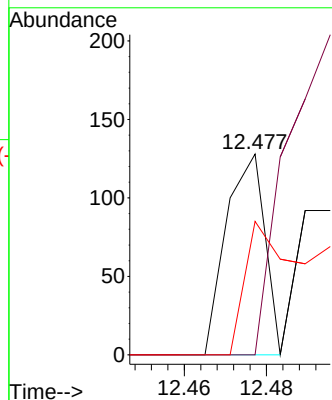
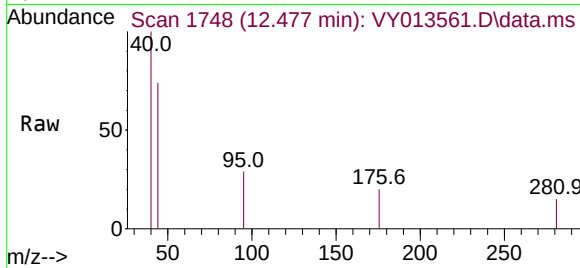




#62
4-Bromofluorobenzene
Concen: 8.115 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

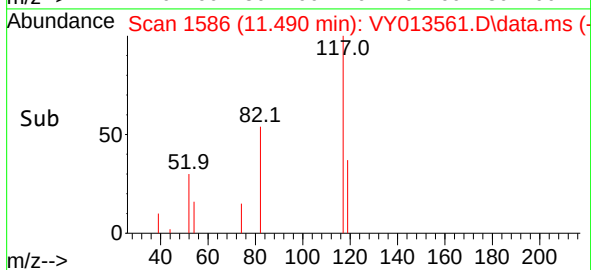
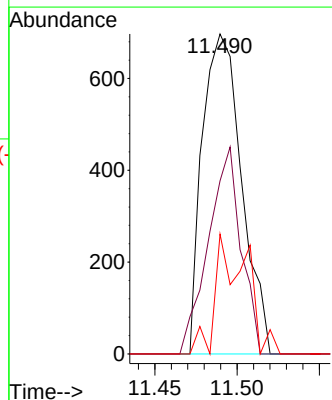
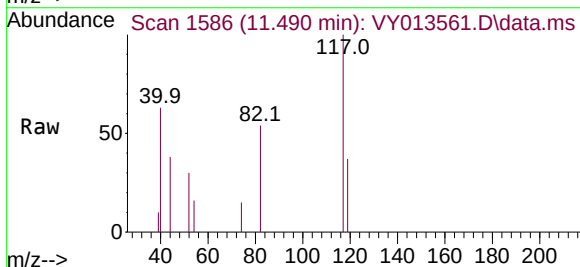
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

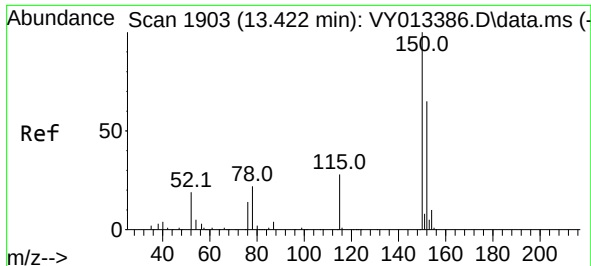
Tgt Ion: 95 Resp: 83
Ion Ratio Lower Upper
95 100
174 216.9 0.0 182.0#
176 120.5 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 117 Resp: 1156
Ion Ratio Lower Upper
117 100
82 54.1 43.0 64.6
119 37.4 25.5 38.3

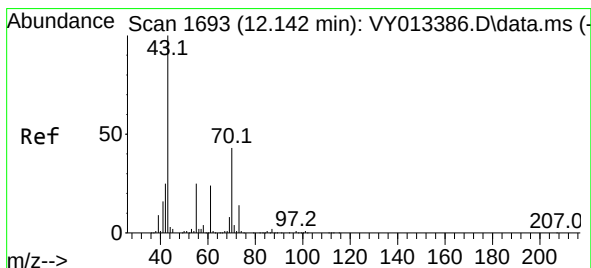
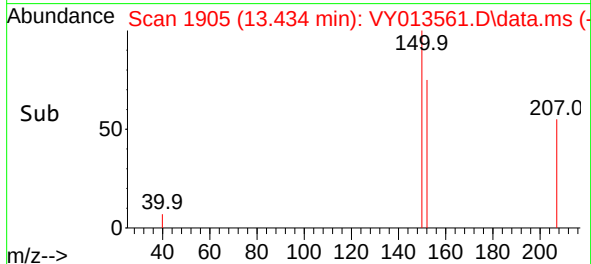
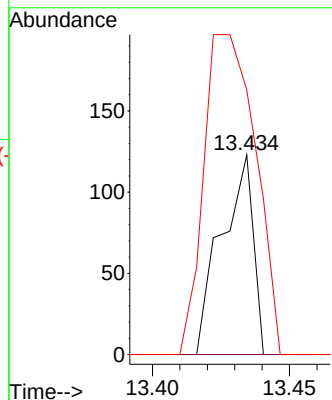
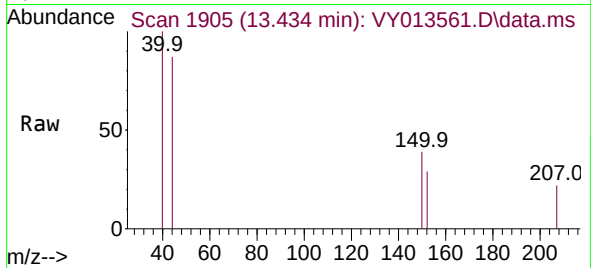




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.012 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

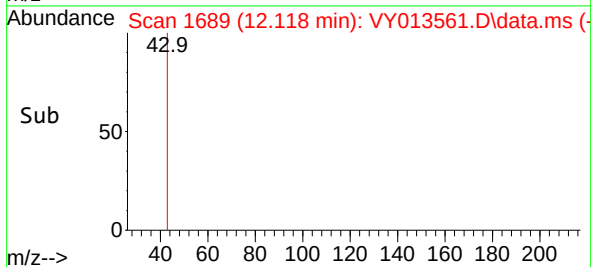
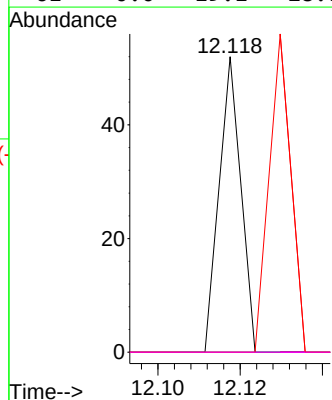
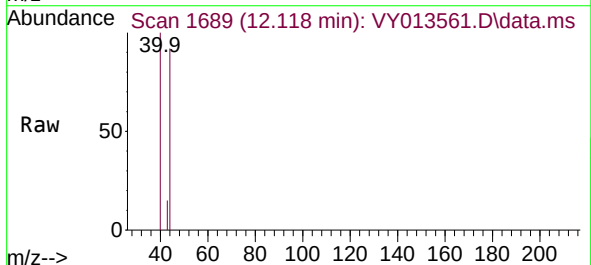
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

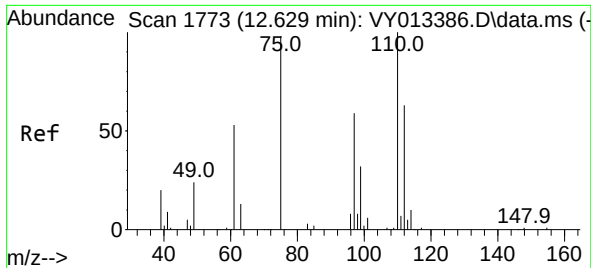
Tgt Ion:152 Resp: 99
Ion Ratio Lower Upper
152 100
115 0.0 28.1 84.2#
150 261.6 0.0 352.0



#74
N-ethyl acetate
Concen: 7.130 ug/l
RT: 12.118 min Scan# 1689
Delta R.T. -0.024 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
70 0.0 33.0 49.4#
55 105.3 19.8 29.6#
61 0.0 19.1 28.7#

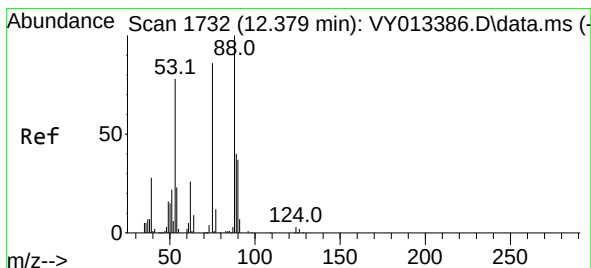
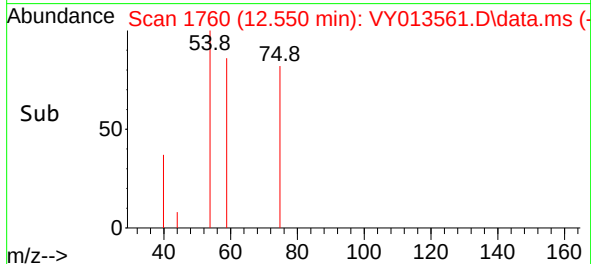
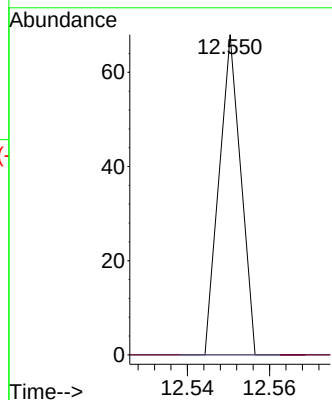
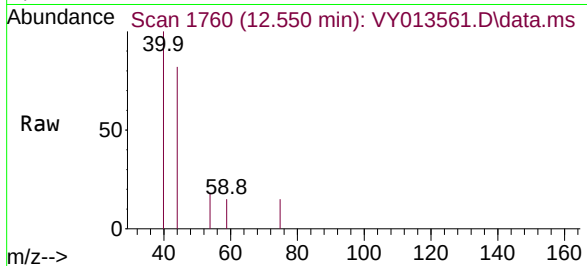




#76
1,2,3-Trichloropropane
Concen: 18.725 ug/l
RT: 12.550 min Scan# 1750
Delta R.T. -0.079 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

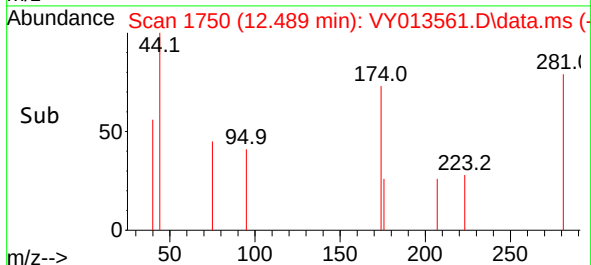
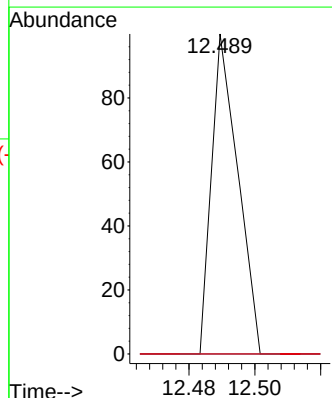
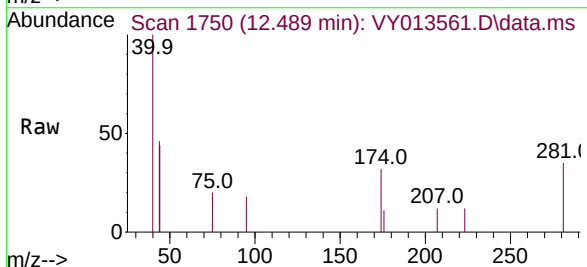
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-339

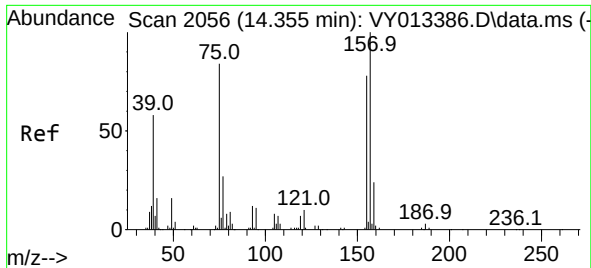
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 85.797 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY013561.D
Acq: 02 May 2023 16:57

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 154.681 ug/l

RT: 14.392 min Scan# 20

Delta R.T. 0.037 min

Lab File: VY013561.D

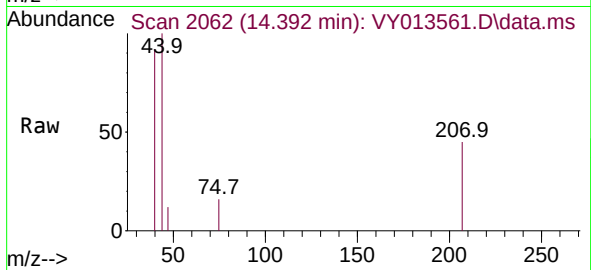
Acq: 02 May 2023 16:57

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-339



Tgt Ion:	75	Resp:	50
Ion	Ratio	Lower	Upper
75	100		
155	0.0	44.6	134.0#
157	0.0	57.6	172.7#

