

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051225\
 Data File : VY022215.D
 Acq On : 12 May 2025 11:39
 Operator : SY/MD
 Sample : Q1983-08
 Misc : 4.68g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-636-VOC-02

Quant Time: May 13 02:17:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

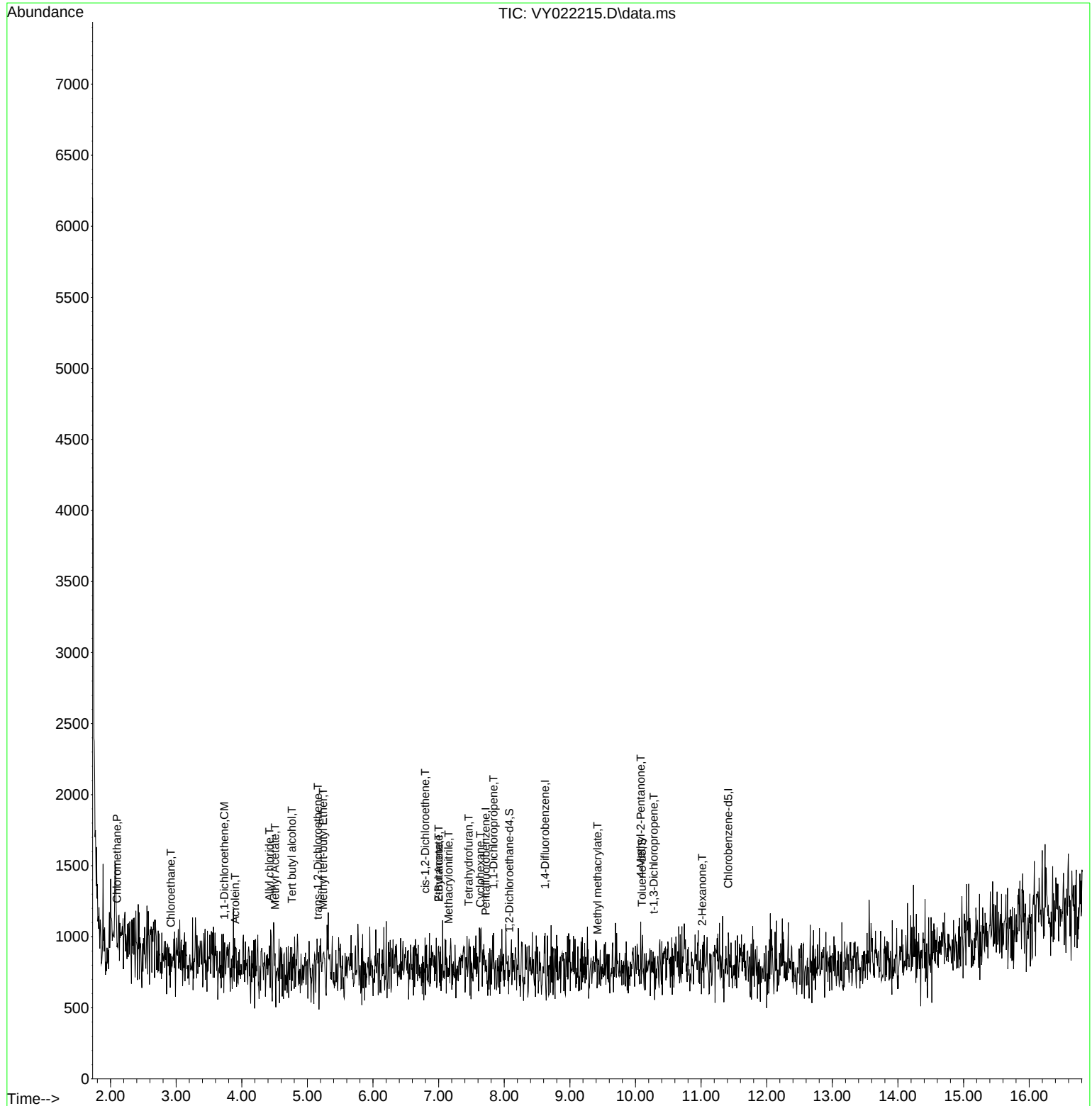
Internal Standards						
1) Pentafluorobenzene	7.720	168	102	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.622	114	187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	101	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ug/l	-13.35
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	50	53.070	ug/l	0.02
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.140%	
35) Dibromofluoromethane	0.000	113	0	0.000	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	= 0.000%#	
50) Toluene-d8	10.097	98	91	19.538	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 39.080%#	
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount	50.000	Range	30 - 143	Recovery	= 0.000%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.099	50	51	41.210	ug/l	# 42
6) Chloroethane	2.922	64	20	19.310	ug/l	# 42
11) Tert butyl alcohol	4.763	59	30	580.006	ug/l	# 70
12) 1,1-Dichloroethene	3.732	96	45	44.379	ug/l	# 1
13) Acrolein	3.897	56	21	226.210	ug/l	# 14
14) Allyl chloride	4.421	41	50	42.349	ug/l	# 20
18) Methyl Acetate	4.507	43	53	120.426	ug/l	# 44
19) Methyl tert-butyl Ether	5.238	73	20	8.812	ug/l	# 55
21) trans-1,2-Dichloroethene	5.159	96	55	48.433	ug/l	# 3
25) 2-Butanone	7.000	43	29	135.034	ug/l	# 41
27) cis-1,2-Dichloroethene	6.793	96	19	14.963	ug/l	# 1
29) Tetrahydrofuran	7.457	42	19	136.217	ug/l	# 26
31) Cyclohexane	7.634	56	19	12.199	ug/l	# 9
36) 1,1-Dichloropropene	7.835	75	26	15.667	ug/l	# 39
37) Ethyl Acetate	7.000	43	29	48.657	ug/l	# 64
41) Methacrylonitrile	7.153	41	43	131.978	ug/l	# 19
48) Methyl methacrylate	9.420	41	30	56.697	ug/l	# 31
51) 4-Methyl-2-Pentanone	10.079	43	27	44.999	ug/l	# 31
53) t-1,3-Dichloropropene	10.280	75	25	16.246	ug/l	# 45
59) 2-Hexanone	11.018	43	24	60.643	ug/l	# 18

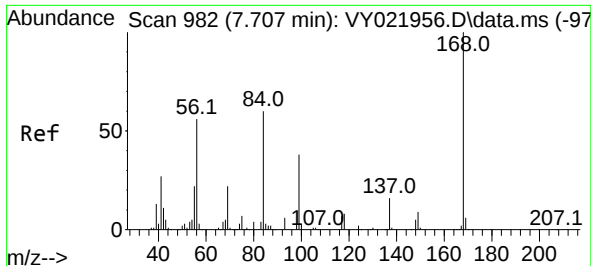
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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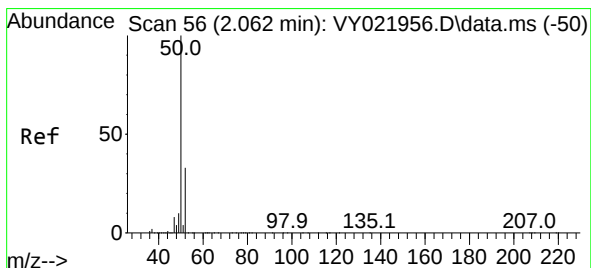
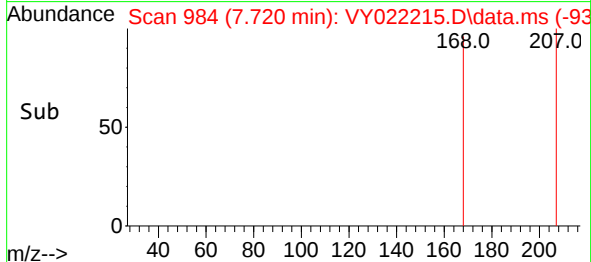
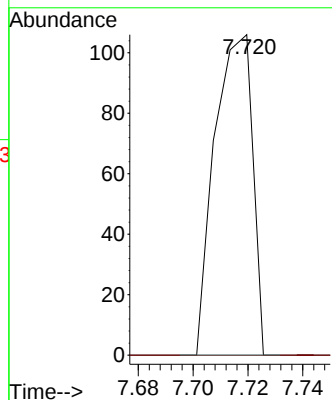
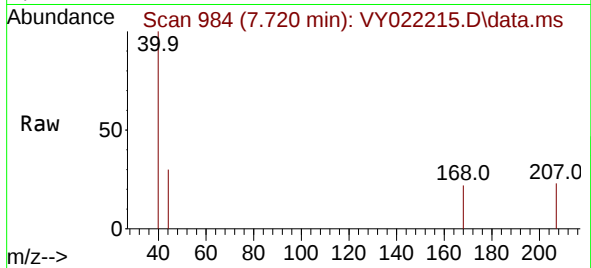




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

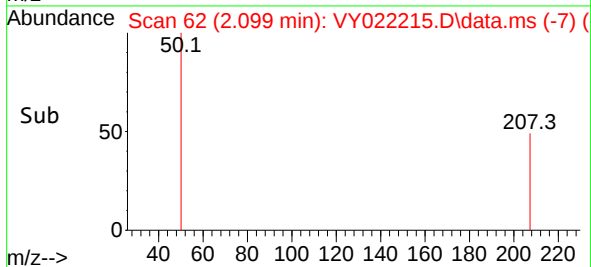
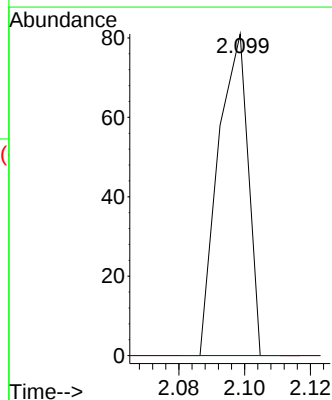
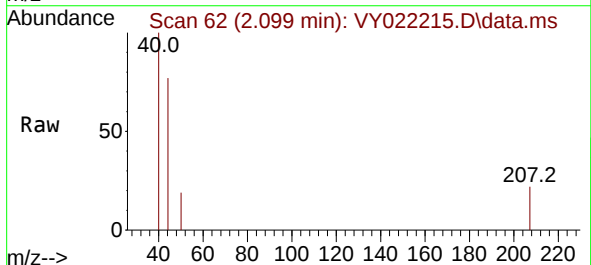
Instrument :
MSVOA_Y
ClientSampleId :
OR-636-VOC-02

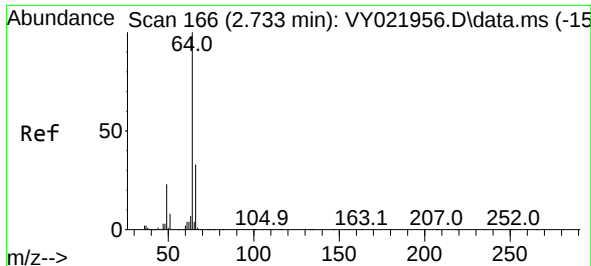
Tgt Ion:168 Resp: 102
Ion Ratio Lower Upper
168 100
99 0.0 43.1 64.7#



#3
Chloromethane
Concen: 41.210 ug/l
RT: 2.099 min Scan# 62
Delta R.T. 0.037 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Tgt Ion: 50 Resp: 51
Ion Ratio Lower Upper
50 100
52 0.0 26.1 39.1#

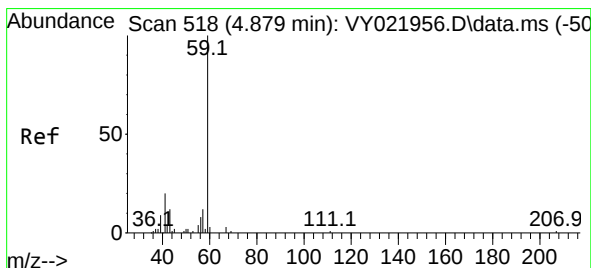
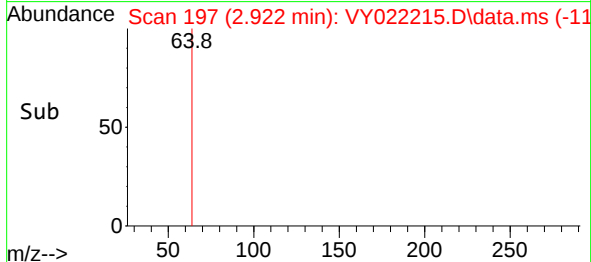
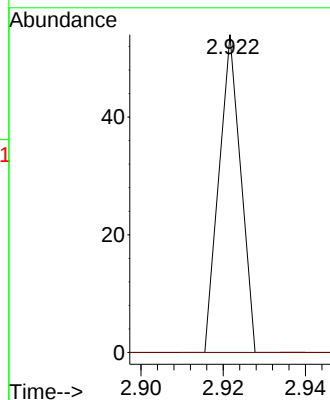
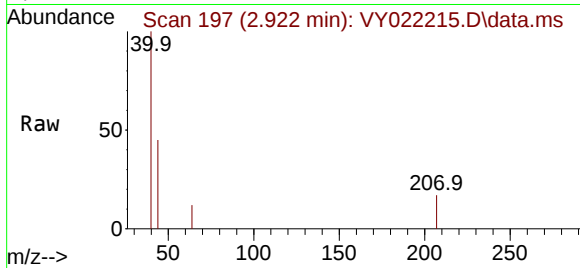




#6
Chloroethane
Concen: 19.310 ug/l
RT: 2.922 min Scan# 11
Delta R.T. 0.189 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

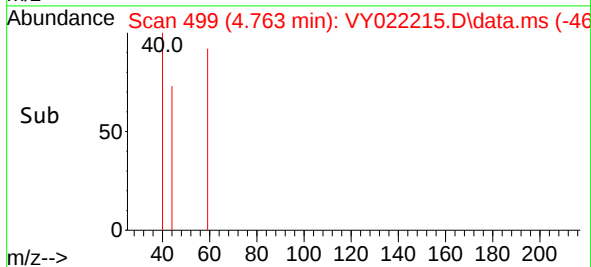
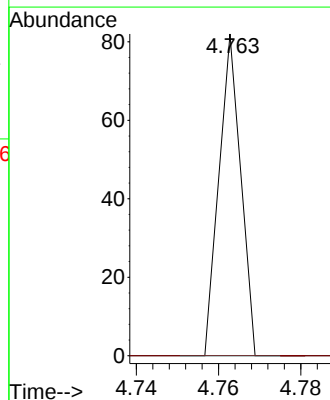
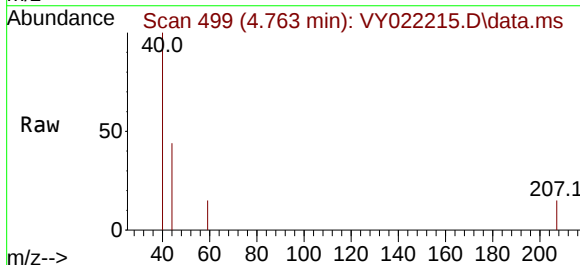
Instrument :
MSVOA_Y
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OR-636-VOC-02

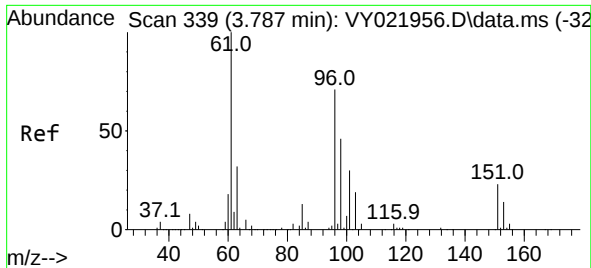
Tgt Ion: 64 Resp: 20
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 580.006 ug/l
RT: 4.763 min Scan# 499
Delta R.T. -0.116 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

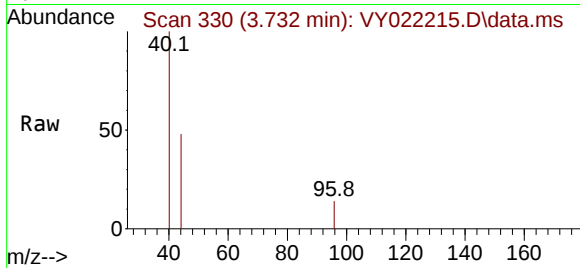
Tgt Ion: 59 Resp: 30
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



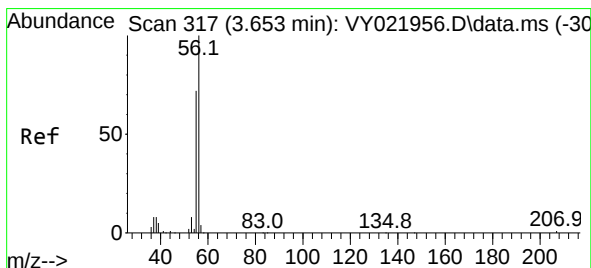
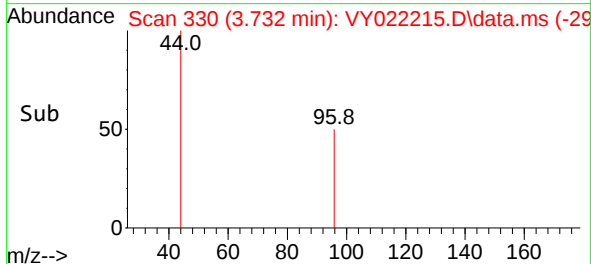
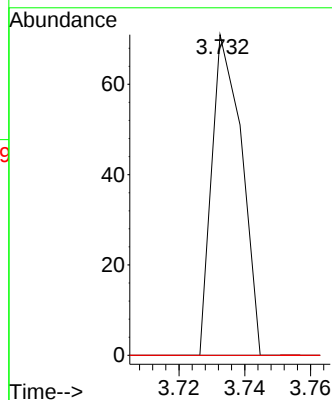


#12
1,1-Dichloroethene
Concen: 44.379 ug/l
RT: 3.732 min Scan# 311
Delta R.T. -0.055 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Instrument :
MSVOA_Y
ClientSampleId :
OR-636-VOC-02

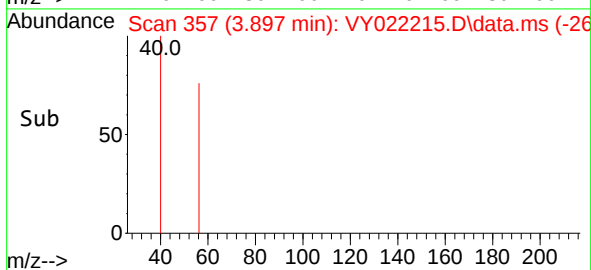
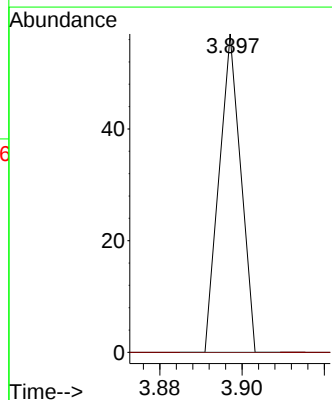
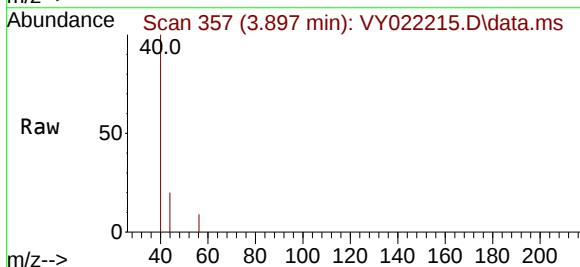


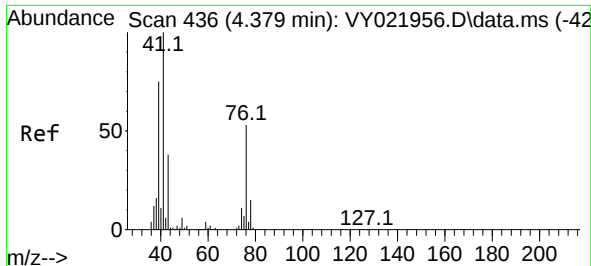
Tgt Ion: 96 Resp: 45
Ion Ratio Lower Upper
96 100
61 0.0 113.0 169.4#
98 0.0 51.4 77.2#



#13
Acrolein
Concen: 226.210 ug/l
RT: 3.897 min Scan# 357
Delta R.T. 0.244 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

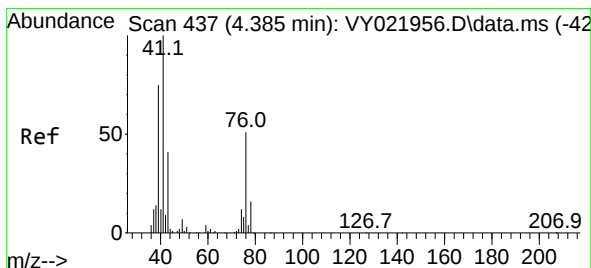
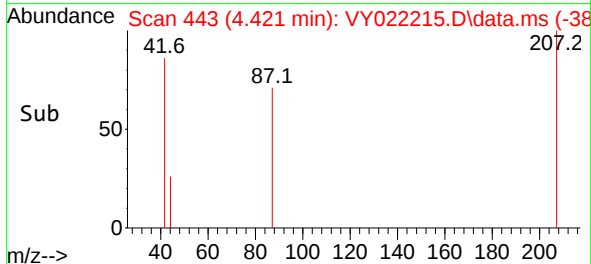
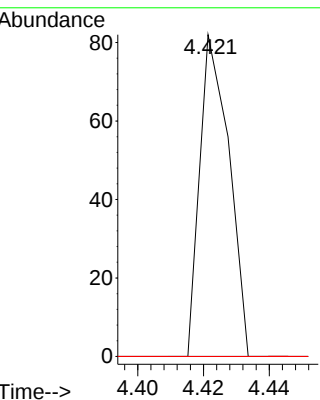
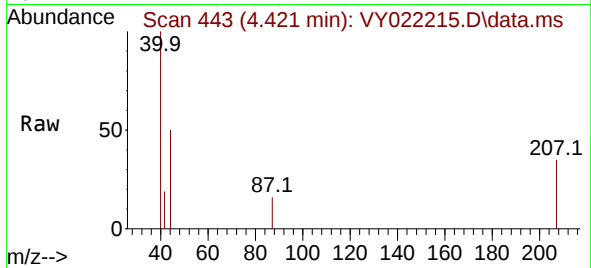




#14
 Allyl chloride
 Concen: 42.349 ug/l
 RT: 4.421 min Scan# 443
 Delta R.T. 0.043 min
 Lab File: VY022215.D
 Acq: 12 May 2025 11:39

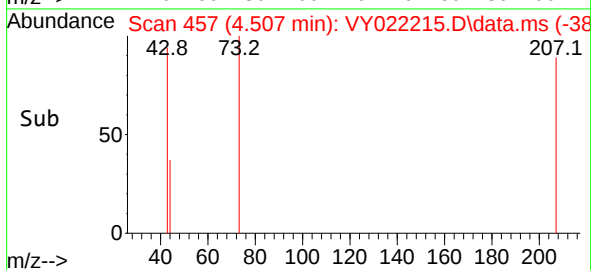
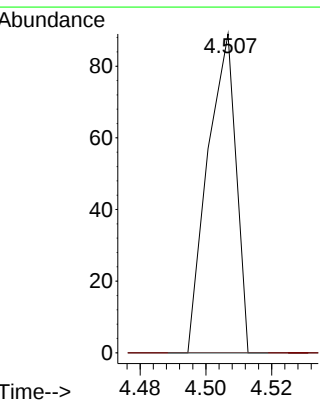
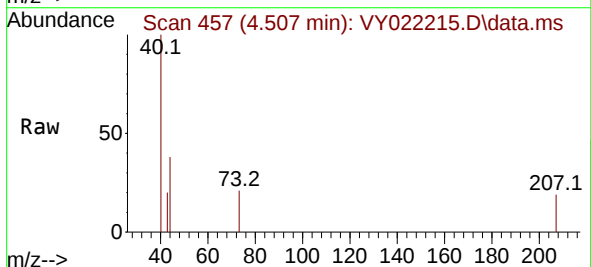
Instrument :
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 ClientSampleId :
 OR-636-VOC-02

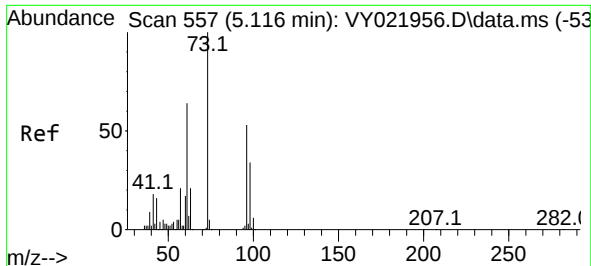
Tgt Ion: 41 Resp: 50
 Ion Ratio Lower Upper
 41 100
 39 0.0 57.2 85.8#
 76 0.0 39.7 59.5#



#18
 Methyl Acetate
 Concen: 120.426 ug/l
 RT: 4.507 min Scan# 457
 Delta R.T. 0.122 min
 Lab File: VY022215.D
 Acq: 12 May 2025 11:39

Tgt Ion: 43 Resp: 53
 Ion Ratio Lower Upper
 43 100
 74 0.0 24.2 36.4#





#19

Methyl tert-butyl Ether

Concen: 8.812 ug/l

RT: 5.238 min Scan# 51

Delta R.T. 0.122 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

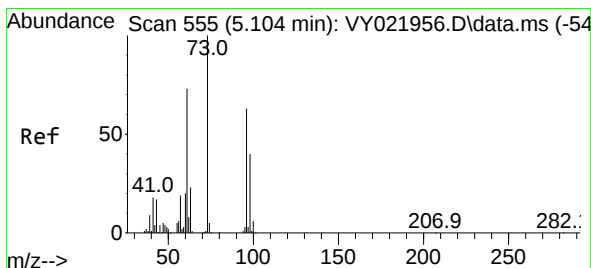
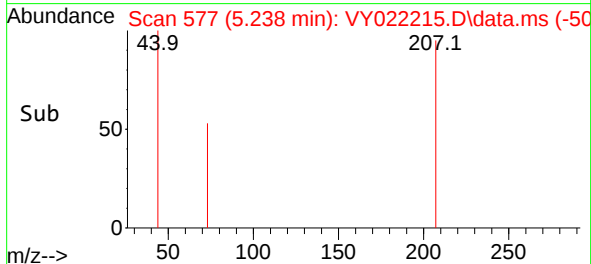
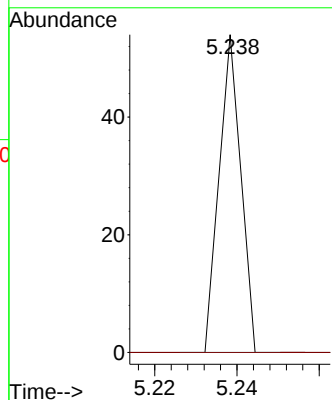
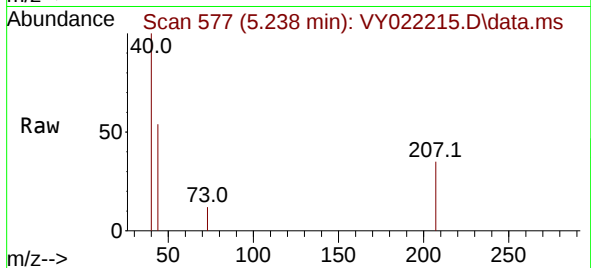
OR-636-VOC-02

Tgt Ion: 73 Resp: 20

Ion Ratio Lower Upper

73 100

57 0.0 16.9 25.3#



#21

trans-1,2-Dichloroethene

Concen: 48.433 ug/l

RT: 5.159 min Scan# 564

Delta R.T. 0.055 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

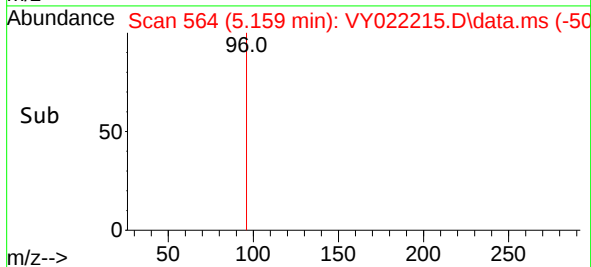
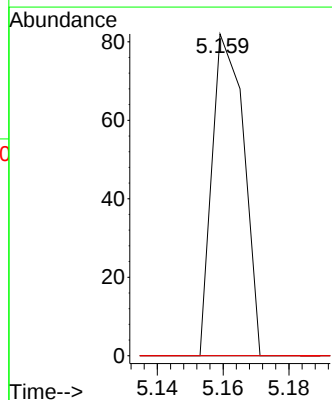
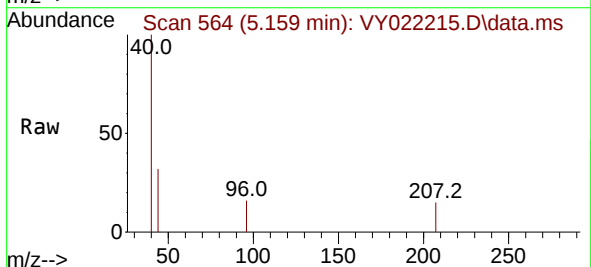
Tgt Ion: 96 Resp: 55

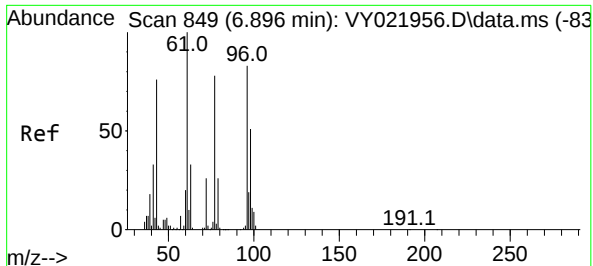
Ion Ratio Lower Upper

96 100

61 0.0 92.6 138.8#

98 0.0 50.2 75.4#





#25

2-Butanone

Concen: 135.034 ug/l

RT: 7.000 min Scan# 80

Delta R.T. 0.104 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

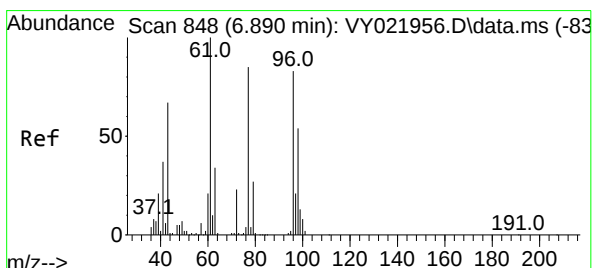
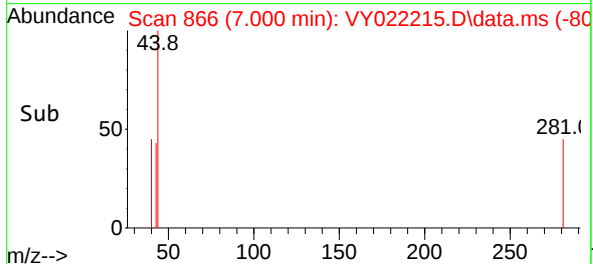
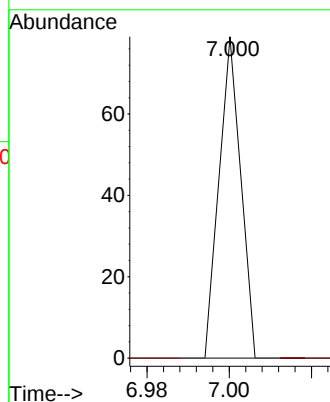
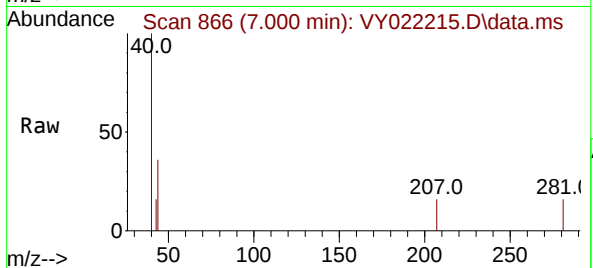
OR-636-VOC-02

Tgt Ion: 43 Resp: 29

Ion Ratio Lower Upper

43 100

72 0.0 27.0 40.4#



#27

cis-1,2-Dichloroethene

Concen: 14.963 ug/l

RT: 6.793 min Scan# 832

Delta R.T. -0.097 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

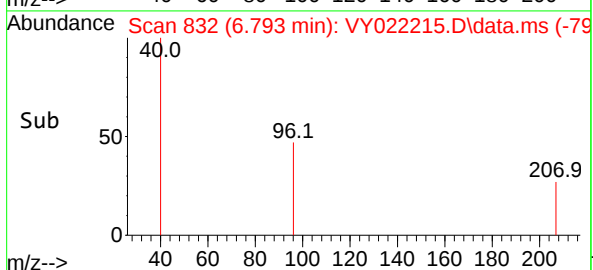
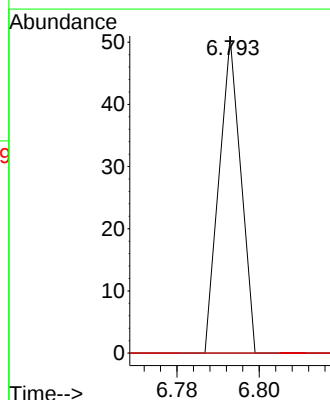
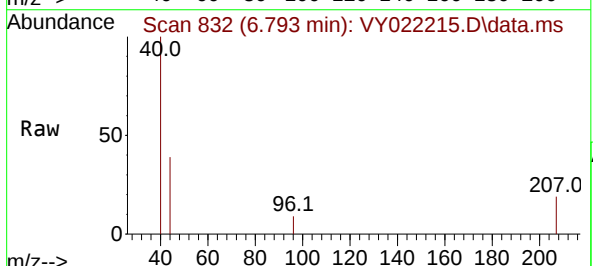
Tgt Ion: 96 Resp: 19

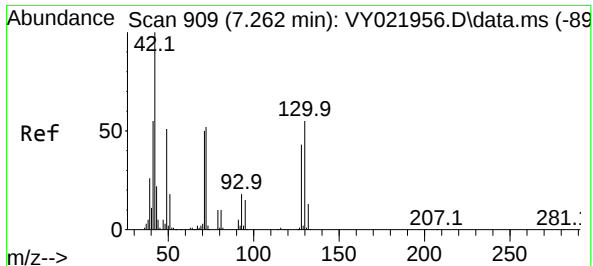
Ion Ratio Lower Upper

96 100

61 0.0 0.0 251.4

98 0.0 0.0 128.4





#29

Tetrahydrofuran

Concen: 136.217 ug/l

RT: 7.457 min Scan# 941

Delta R.T. 0.195 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

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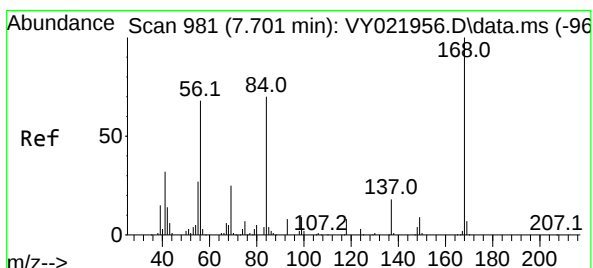
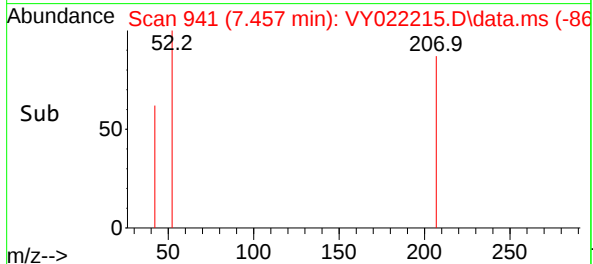
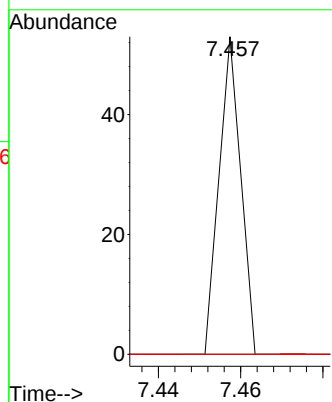
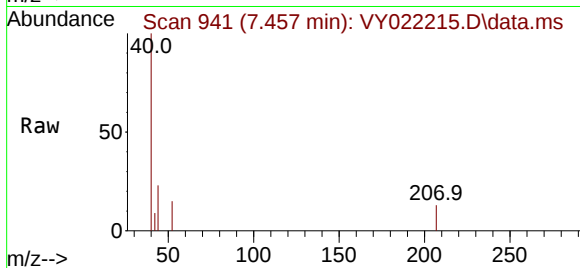
Tgt Ion: 42 Resp: 19

Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

71 0.0 40.6 61.0#



#31

Cyclohexane

Concen: 12.199 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.067 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

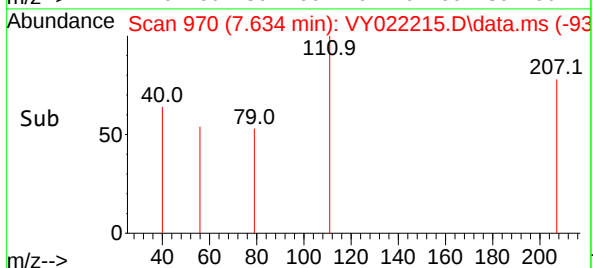
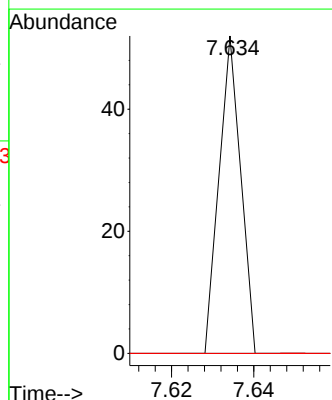
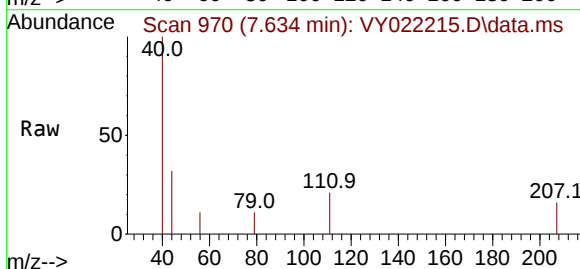
Tgt Ion: 56 Resp: 19

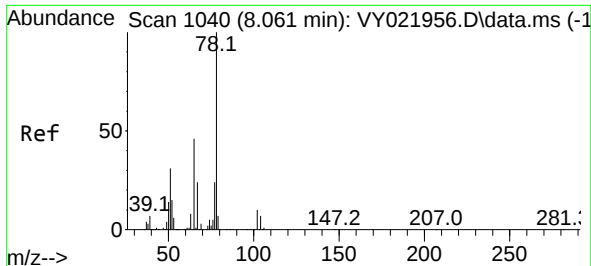
Ion Ratio Lower Upper

56 100

69 0.0 29.4 44.2#

84 0.0 82.2 123.4#





#33

1,2-Dichloroethane-d4

Concen: 53.070 ug/l

RT: 8.079 min Scan# 110

Delta R.T. 0.018 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

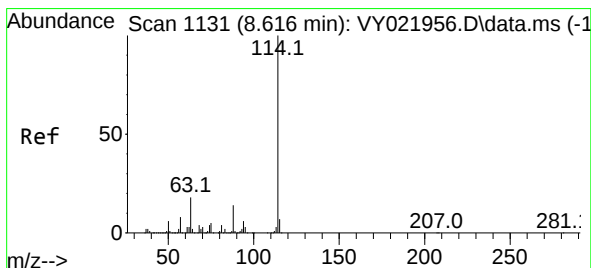
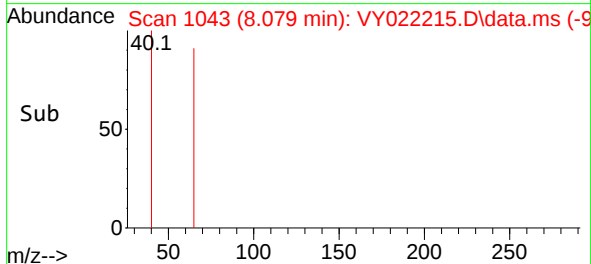
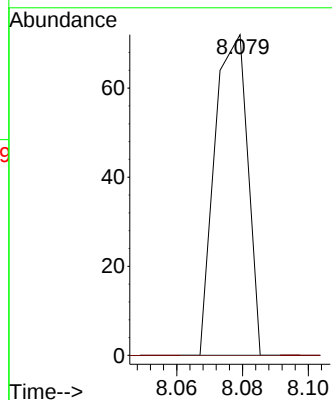
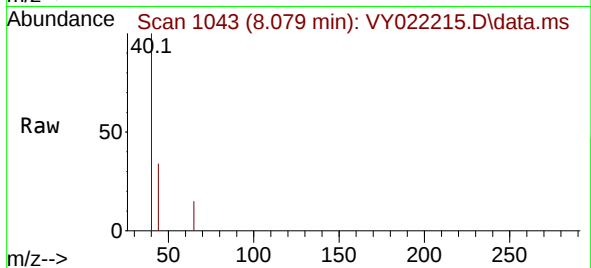
OR-636-VOC-02

Tgt Ion: 65 Resp: 50

Ion Ratio Lower Upper

65 100

67 0.0 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

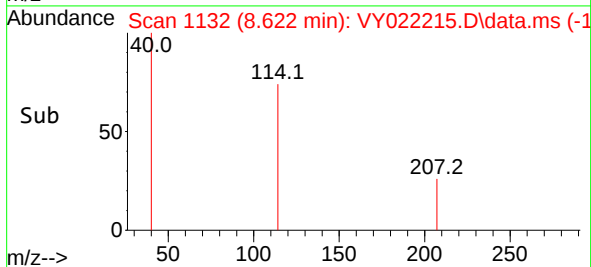
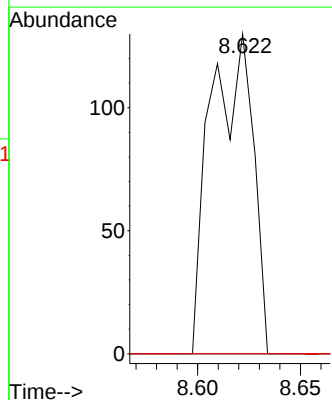
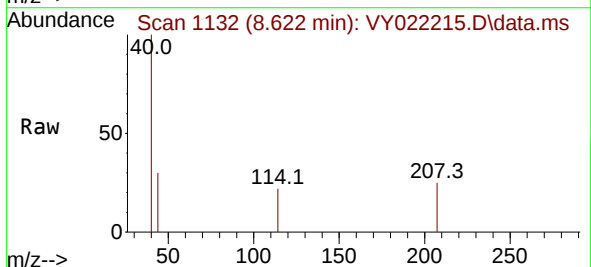
Tgt Ion: 114 Resp: 187

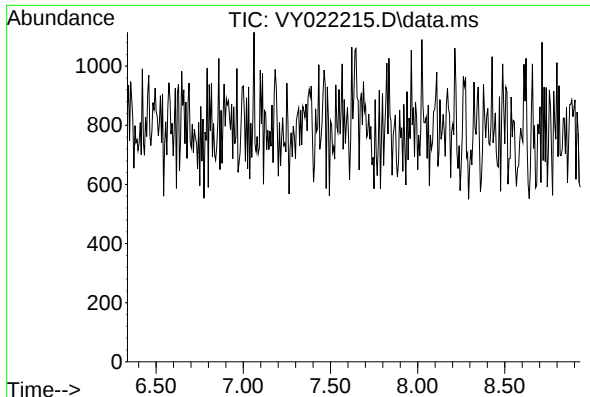
Ion Ratio Lower Upper

114 100

63 0.0 0.0 35.4

88 0.0 0.0 28.2



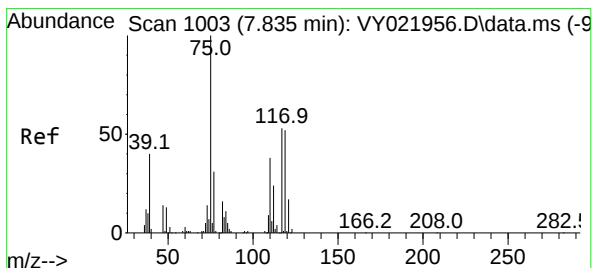
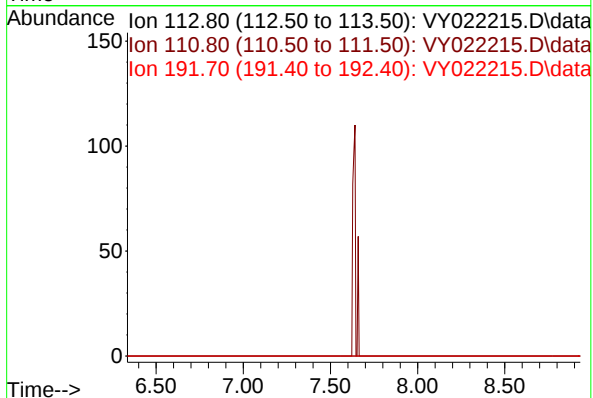


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.63 min
 Lab File: VY022215.D
 Acq: 12 May 2025 11:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-636-VOC-02

Tgt Ion: 113

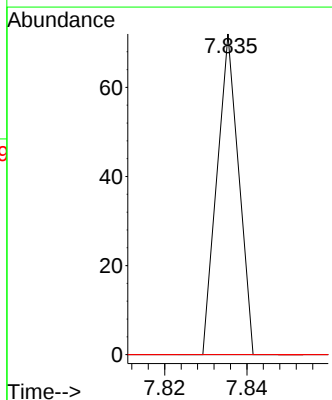
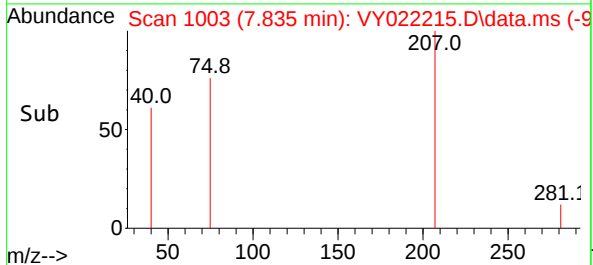
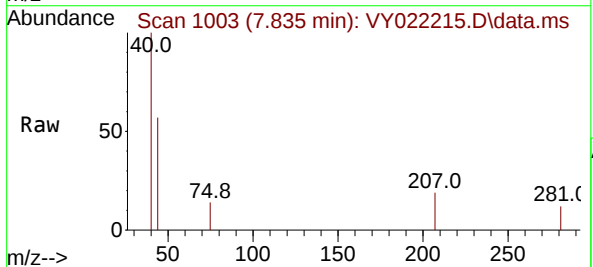
Sig	Exp Ratio
113	100
111	102.3
192	19.5

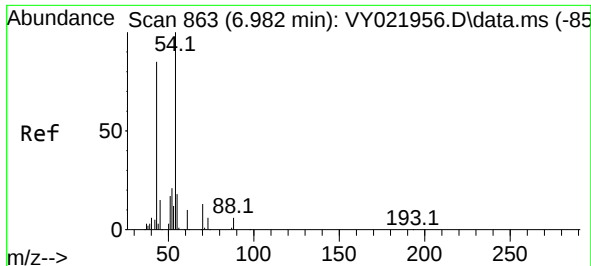


#36
 1,1-Dichloropropene
 Concen: 15.667 ug/l
 RT: 7.835 min Scan# 1003
 Delta R.T. 0.000 min
 Lab File: VY022215.D
 Acq: 12 May 2025 11:39

Tgt Ion: 75 Resp: 26

Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.1	57.3#
77	0.0	25.5	38.3#

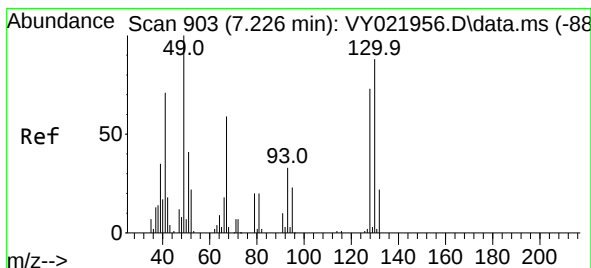
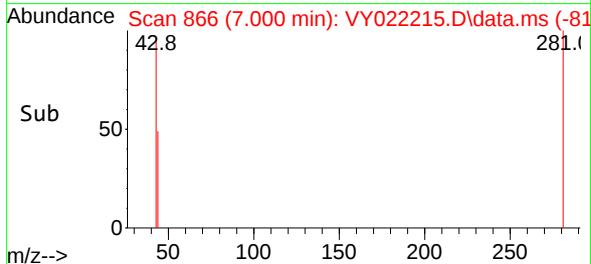
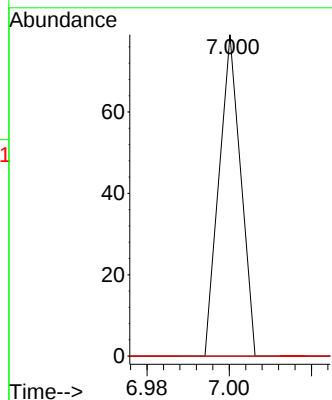
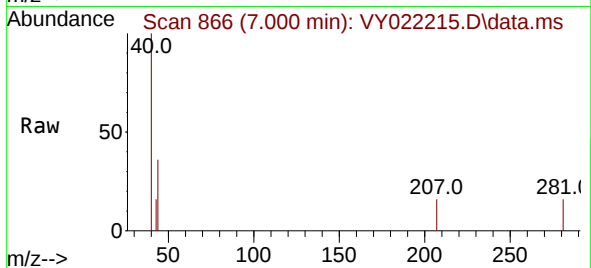




#37
Ethyl Acetate
Concen: 48.657 ug/l
RT: 7.000 min Scan# 80
Delta R.T. 0.018 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

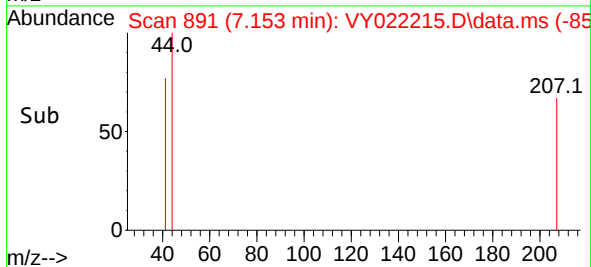
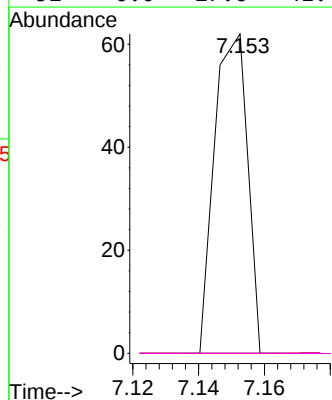
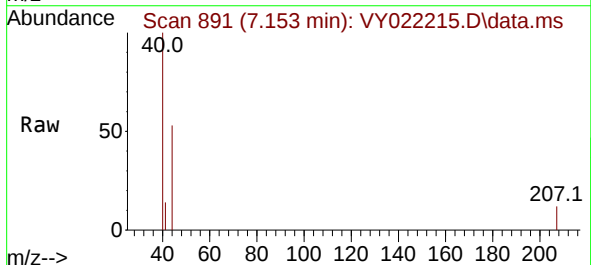
Instrument :
MSVOA_Y
ClientSampleId :
OR-636-VOC-02

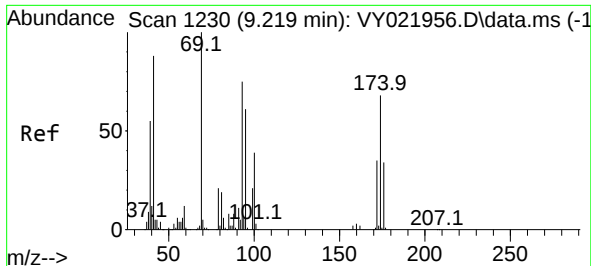
Tgt Ion: 43 Resp: 29
Ion Ratio Lower Upper
43 100
61 0.0 13.8 20.6#
70 0.0 9.2 13.8#



#41
Methacrylonitrile
Concen: 131.978 ug/l
RT: 7.153 min Scan# 891
Delta R.T. -0.073 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Tgt Ion: 41 Resp: 43
Ion Ratio Lower Upper
41 100
39 0.0 36.6 55.0#
67 0.0 72.2 108.4#
52 0.0 27.6 41.4#

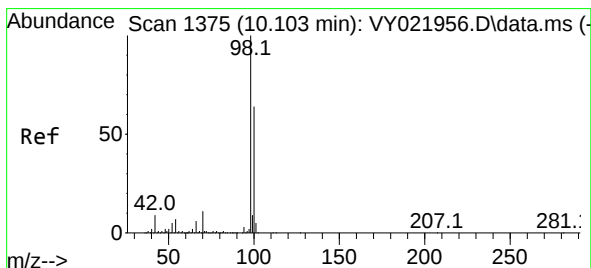
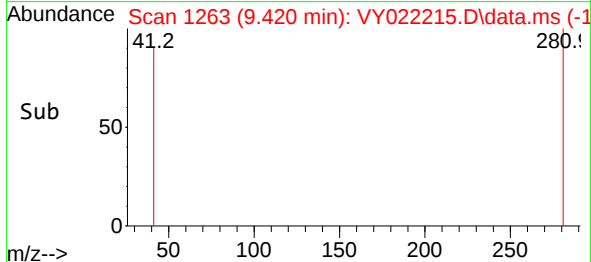
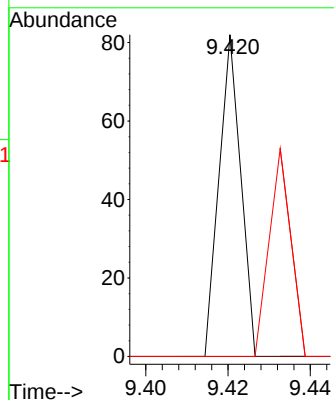
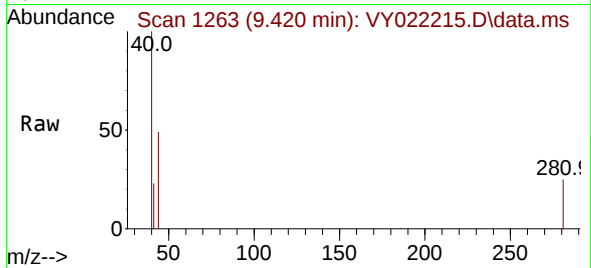




#48
Methyl methacrylate
Concen: 56.697 ug/l
RT: 9.420 min Scan# 11
Delta R.T. 0.201 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

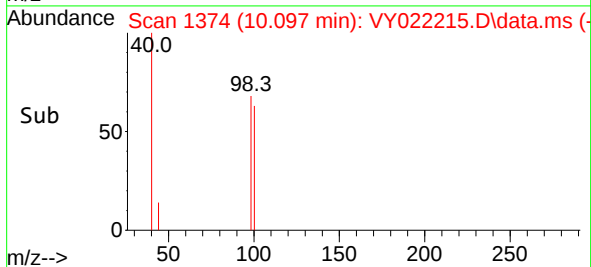
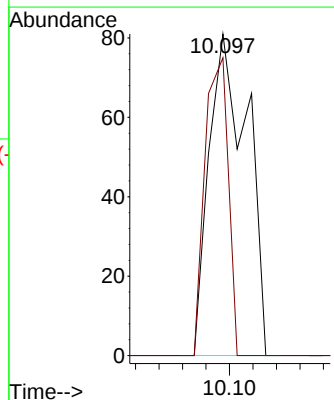
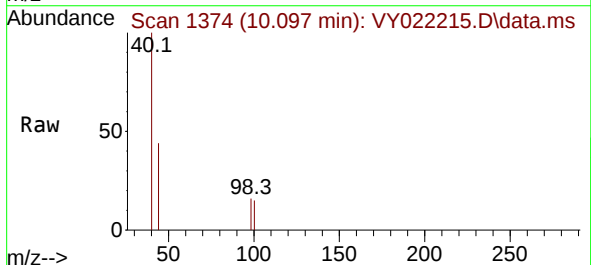
Instrument :
MSVOA_Y
ClientSampleId :
OR-636-VOC-02

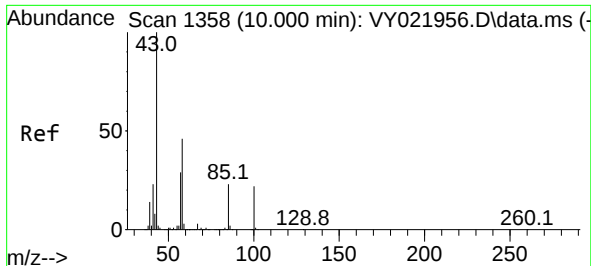
Tgt Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
69 0.0 85.5 128.3#
39 63.3 46.2 69.4



#50
Toluene-d8
Concen: 19.538 ug/l
RT: 10.097 min Scan# 1374
Delta R.T. -0.006 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Tgt Ion: 98 Resp: 91
Ion Ratio Lower Upper
98 100
100 57.1 51.6 77.4

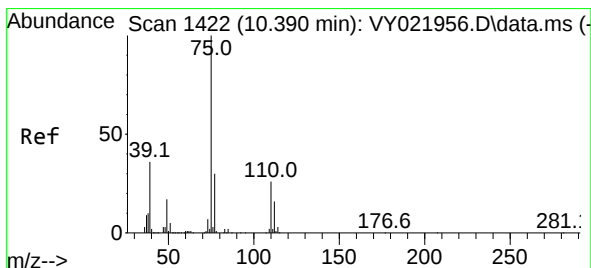
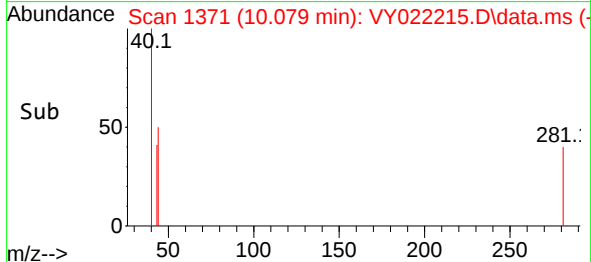
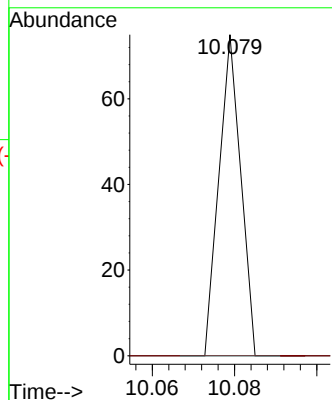
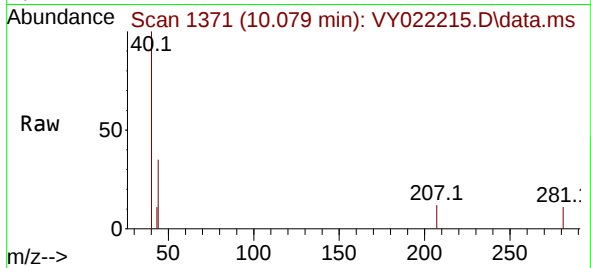




#51
4-Methyl-2-Pentanone
Concen: 44.999 ug/l
RT: 10.079 min Scan# 11
Delta R.T. 0.079 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

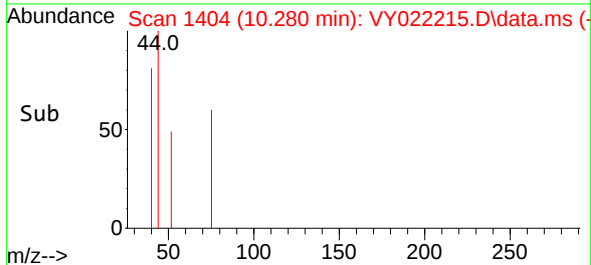
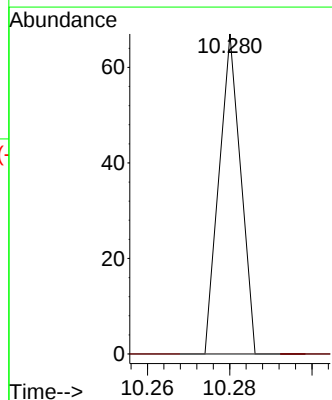
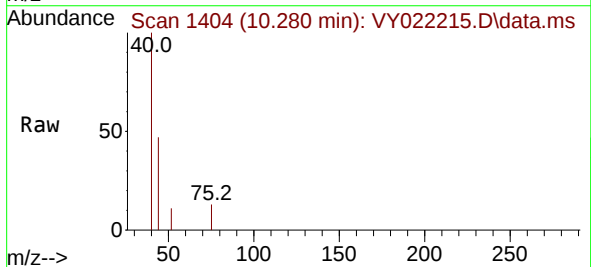
Instrument :
MSVOA_Y
ClientSampleId :
OR-636-VOC-02

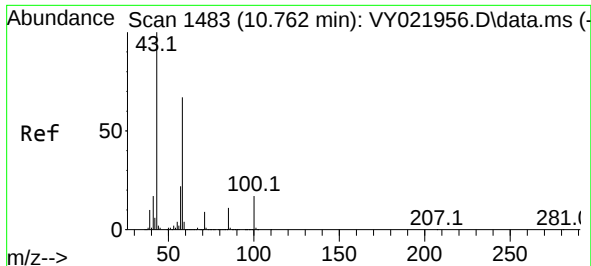
Tgt Ion: 43 Resp: 27
Ion Ratio Lower Upper
43 100
58 0.0 36.6 55.0#



#53
t-1,3-Dichloropropene
Concen: 16.246 ug/l
RT: 10.280 min Scan# 1404
Delta R.T. -0.110 min
Lab File: VY022215.D
Acq: 12 May 2025 11:39

Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 0.0 24.0 36.0#





#59

2-Hexanone

Concen: 60.643 ug/l

RT: 11.018 min Scan# 11

Delta R.T. 0.256 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

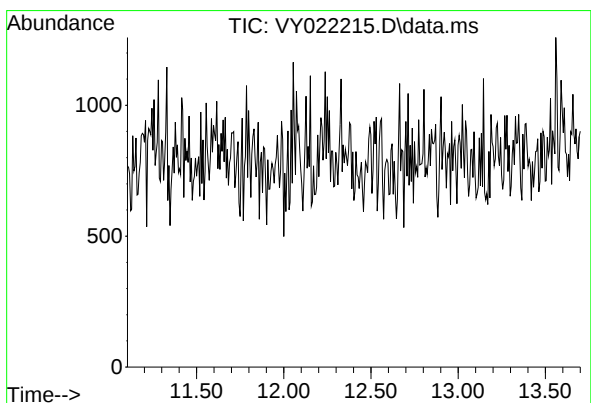
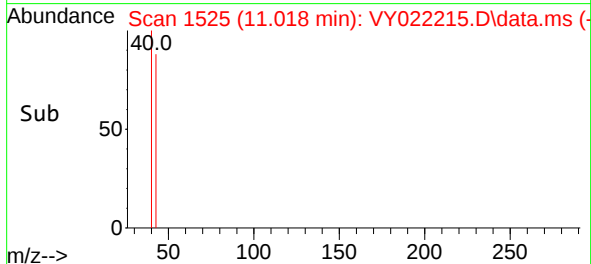
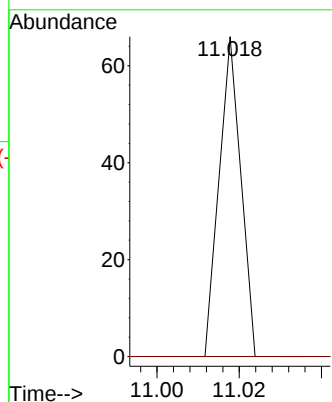
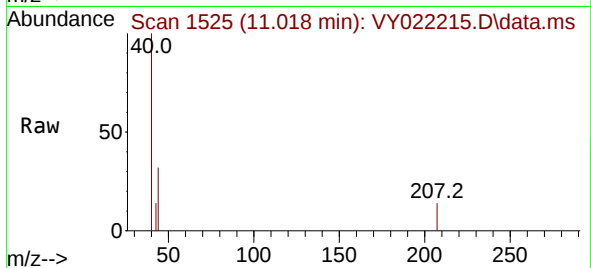
OR-636-VOC-02

Tgt Ion: 43 Resp: 24

Ion Ratio Lower Upper

43 100

58 0.0 32.0 96.0#



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.40 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

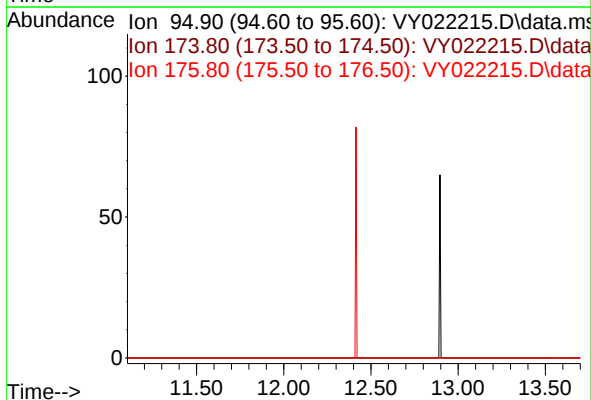
Tgt Ion: 95

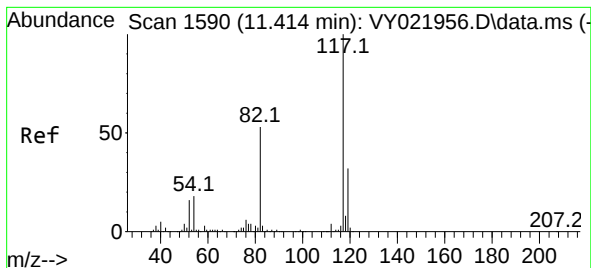
Sig Exp Ratio

95 100

174 89.5

176 85.9





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Instrument :

MSVOA_Y

ClientSampleId :

OR-636-VOC-02

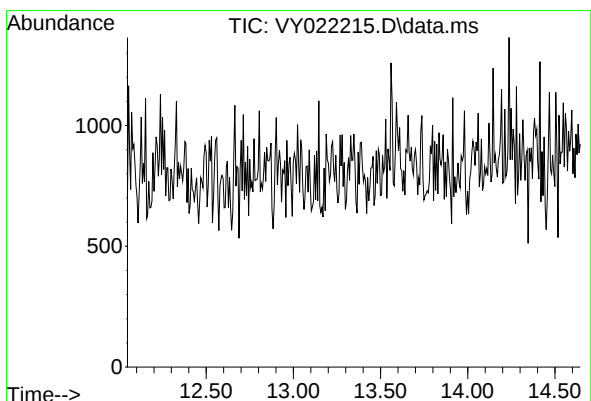
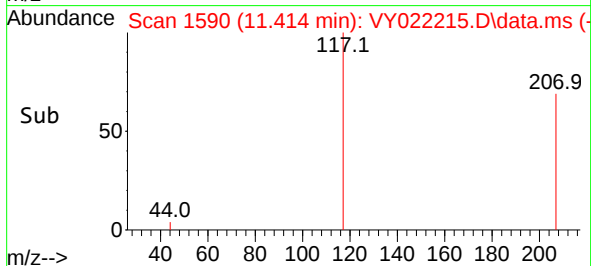
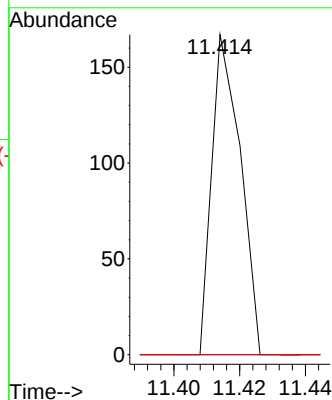
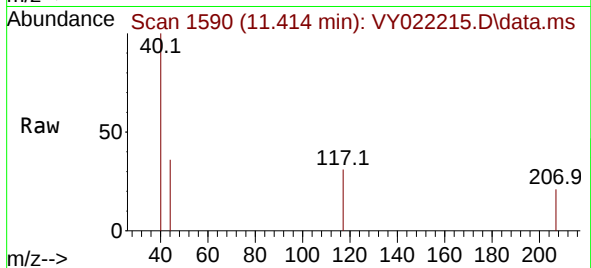
Tgt Ion:117 Resp: 101

Ion Ratio Lower Upper

117 100

82 0.0 42.1 63.1#

119 0.0 25.7 38.5#



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 13.35 min

Lab File: VY022215.D

Acq: 12 May 2025 11:39

Tgt Ion: 152

Sig Exp Ratio

152 100

115 56.0

150 172.8

