

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040860.D
 Acq On : 14 Nov 2023 21:11
 Operator : SY/MD
 Sample : 05275-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-7

Quant Time: Nov 16 04:51:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

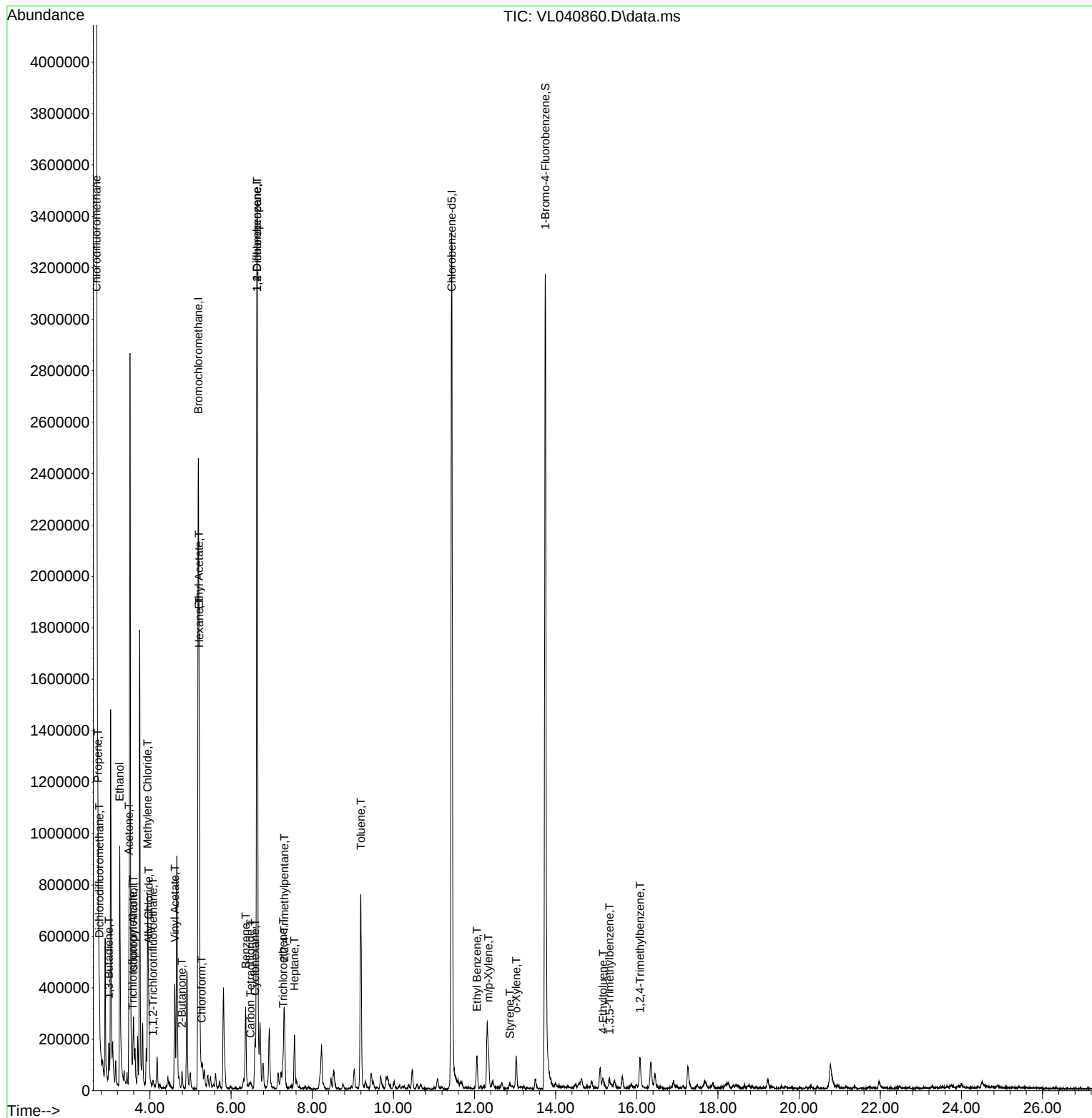
Internal Standards						
1) Bromochloromethane	5.192	49	1020207	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2642849	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2259130	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1726296	9.760	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	93718	0.453	ppbv	98
3) Chlorodifluoromethane	2.681	51	418714	2.571	ppbv #	64
9) Propene	2.723	41	114122	2.079	ppbv	91
10) Heptane	7.562	43	91414	0.677	ppbv	92
11) Trichlorofluoromethane	3.578	101	30814	0.194	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.076	101	4986	0.044	ppbv #	57
13) Ethanol	3.256	45	956201	89.706	ppbv #	100
15) Acetone	3.485	43	501199	4.613	ppbv #	77
16) 1,3-Butadiene	2.989	39	45823	0.834	ppbv #	48
19) Isopropyl Alcohol	3.594	45	262943	4.021	ppbv #	98
20) Methylene Chloride	3.944	84	219563	4.896	ppbv	95
21) Allyl Chloride	3.970	41	53177	0.765	ppbv #	56
23) Vinyl Acetate	4.616	43	138646	0.988	ppbv #	1
25) Ethyl Acetate	5.211	43	348582	1.549	ppbv #	79
26) Hexane	5.214	57	471252	4.733	ppbv #	42
29) Chloroform	5.275	83	5794	0.034	ppbv	97
30) Cyclohexane	6.591	84	59838	0.699	ppbv	96
34) 2-Butanone	4.787	43	35988	0.267	ppbv #	54
35) Carbon Tetrachloride	6.478	117	5689	0.035	ppbv	88
36) Benzene	6.362	78	241402	1.125	ppbv #	89
38) Trichloroethene	7.285	130	5009	0.060	ppbv	90
39) 1,2-Dichloropropane	6.642	63	637636	7.498	ppbv #	23
44) 2,2,4-Trimethylpentane	7.311	57	257578	0.723	ppbv #	86
53) Toluene	9.198	91	557897	2.364	ppbv	98
58) Ethyl Benzene	12.060	91	108098	0.367	ppbv #	88
59) m/p-Xylene	12.340	91	78639	0.313	ppbv #	32
60) o-Xylene	13.031	91	100509	0.421	ppbv	99
61) Styrene	12.873	104	4190	0.036	ppbv #	1
72) 4-Ethyltoluene	15.166	105	18036	0.069	ppbv #	57
73) 1,3,5-Trimethylbenzene	15.323	105	12120	0.052	ppbv #	79
74) 1,2,4-Trimethylbenzene	16.076	105	56806	0.219	ppbv #	68

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

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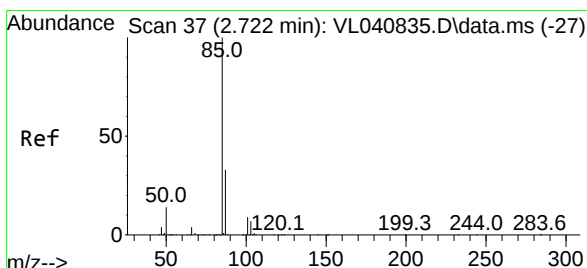
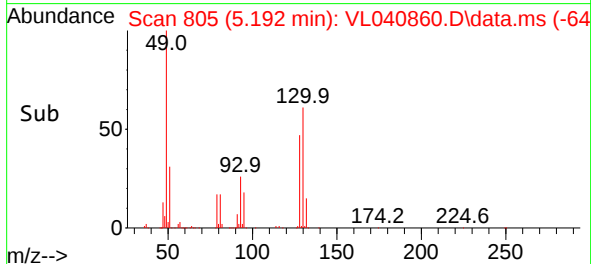
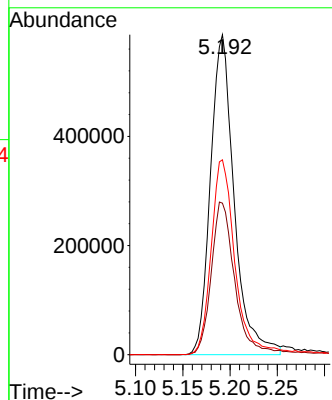
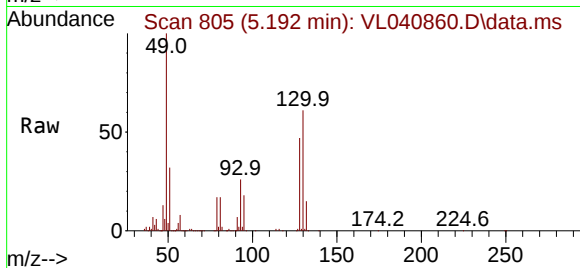




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.020 min
 Lab File: VL040860.D
 Acq: 14 Nov 2023 21:11

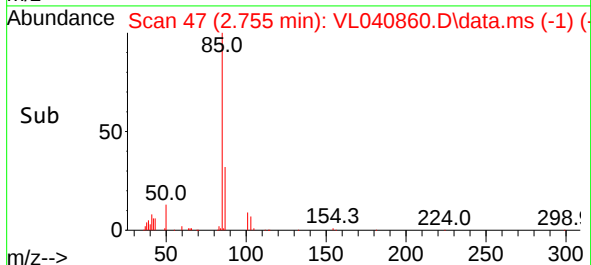
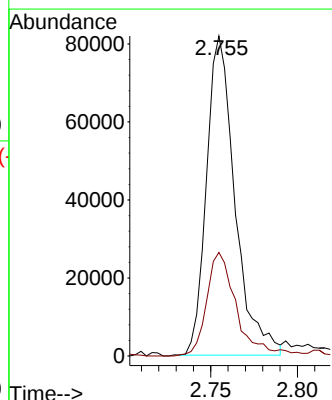
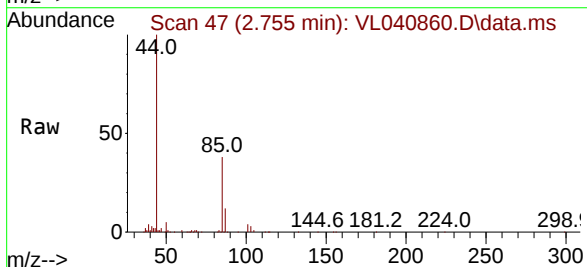
Instrument :
 MSVOA_L
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 NT-IA-7

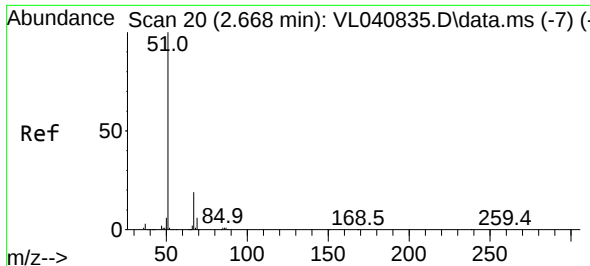
Tgt Ion: 49 Resp: 1020207
 Ion Ratio Lower Upper
 49 100
 128 49.0 23.8 71.2
 130 62.4 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.453 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. 0.032 min
 Lab File: VL040860.D
 Acq: 14 Nov 2023 21:11

Tgt Ion: 85 Resp: 93718
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.7 40.1

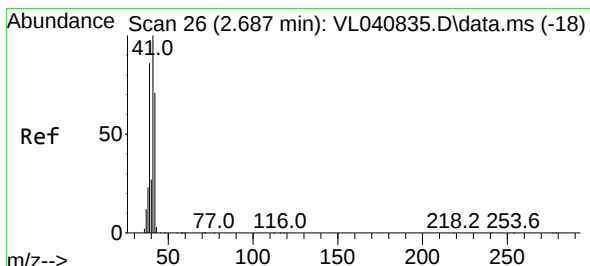
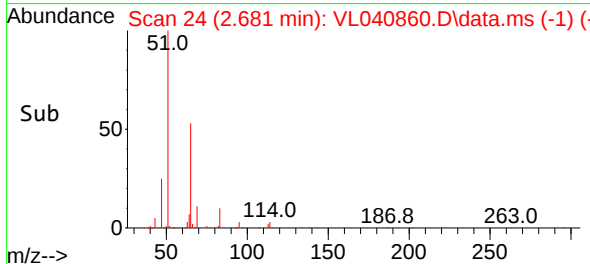
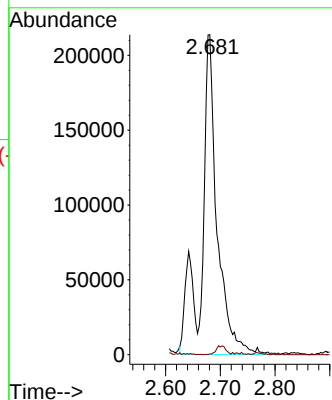
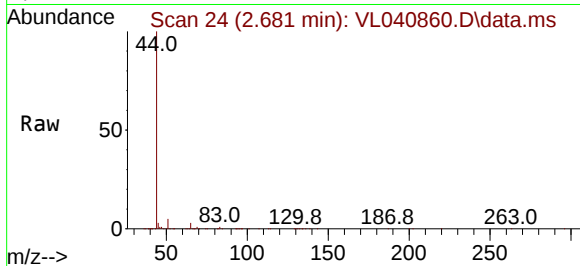




#3
Chlorodifluoromethane
Concen: 2.571 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.013 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

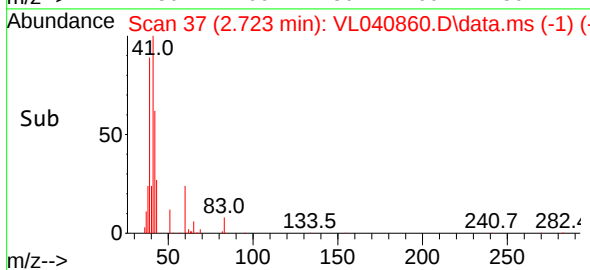
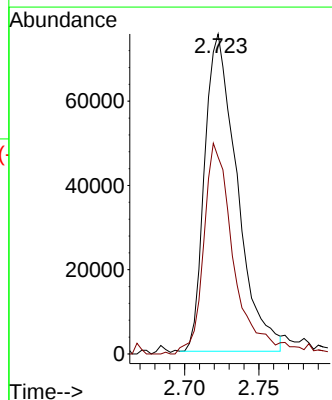
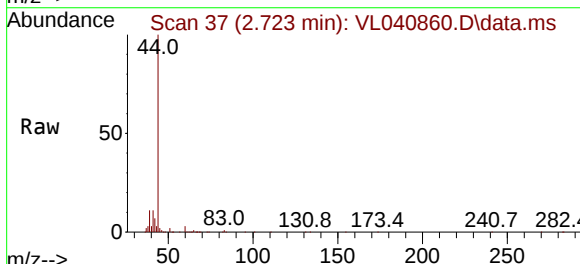
Instrument :
MSVOA_L
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NT-IA-7

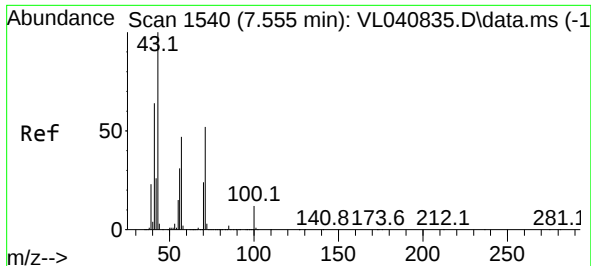
Tgt Ion: 51 Resp: 418714
Ion Ratio Lower Upper
51 100
67 2.5 15.0 22.4#



#9
Propene
Concen: 2.079 ppbv
RT: 2.723 min Scan# 37
Delta R.T. 0.036 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 41 Resp: 114122
Ion Ratio Lower Upper
41 100
42 63.0 56.5 84.7





#10

Heptane

Concen: 0.677 ppbv

RT: 7.562 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

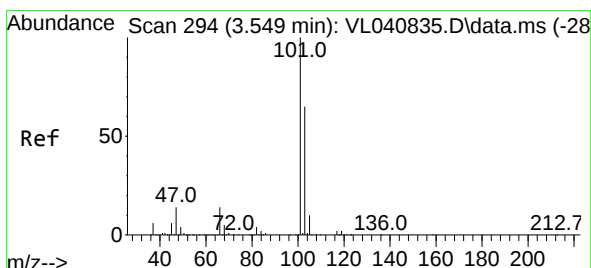
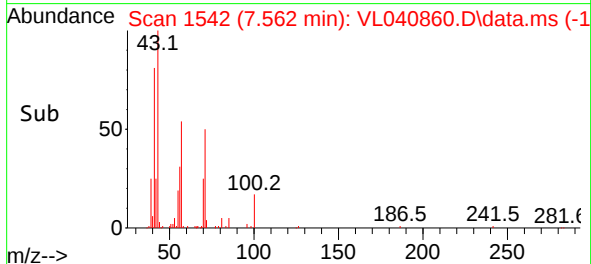
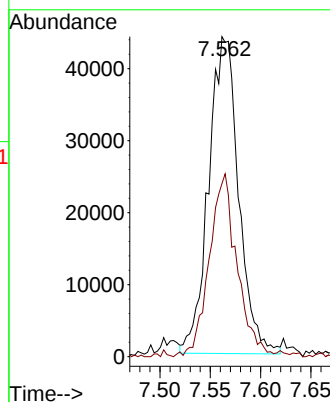
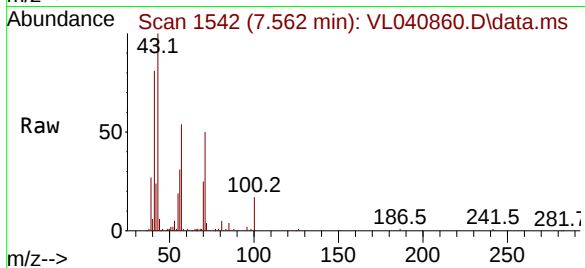
NT-IA-7

Tgt Ion: 43 Resp: 91414

Ion Ratio Lower Upper

43 100

57 54.7 39.4 59.0



#11

Trichlorofluoromethane

Concen: 0.194 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.029 min

Lab File: VL040860.D

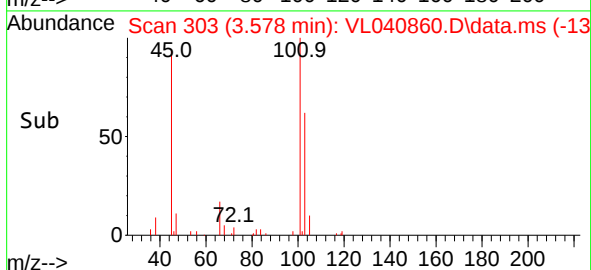
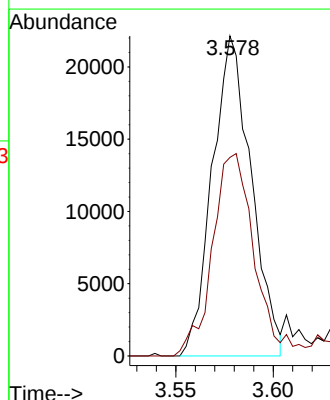
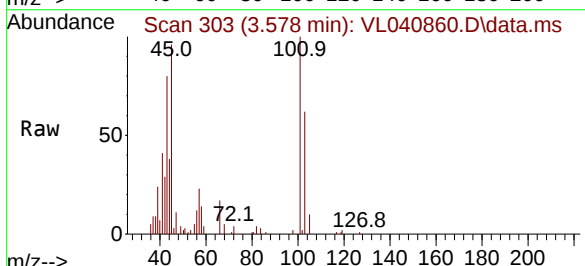
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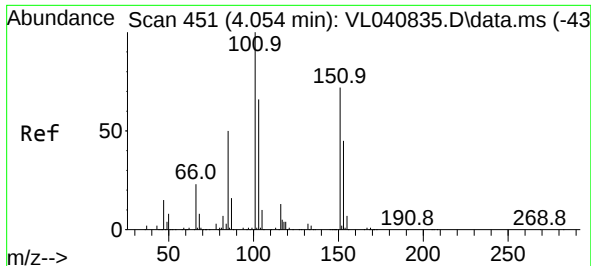
Tgt Ion: 101 Resp: 30814

Ion Ratio Lower Upper

101 100

103 60.4 51.8 77.8

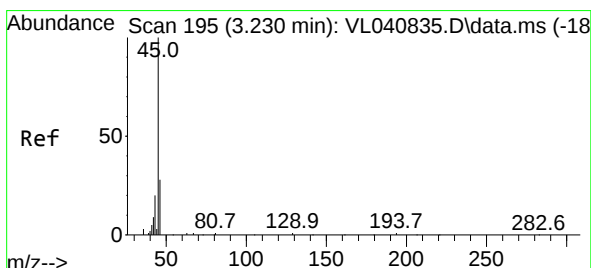
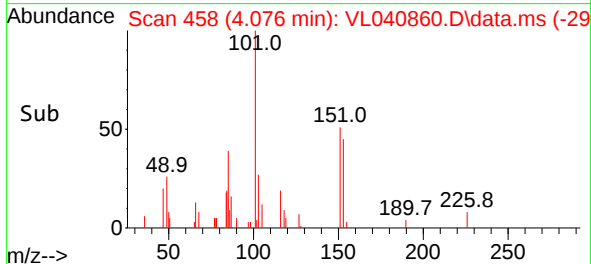
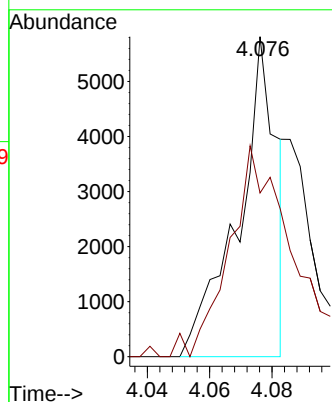
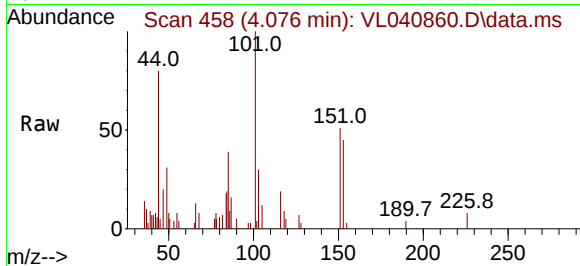




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.044 ppbv
RT: 4.076 min Scan# 41
Delta R.T. 0.023 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

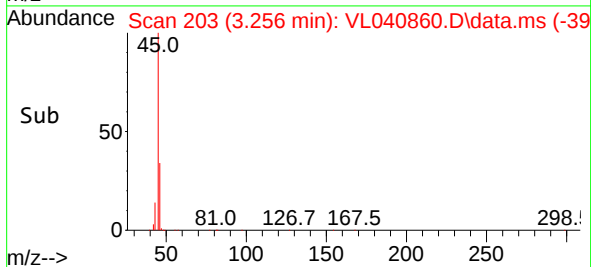
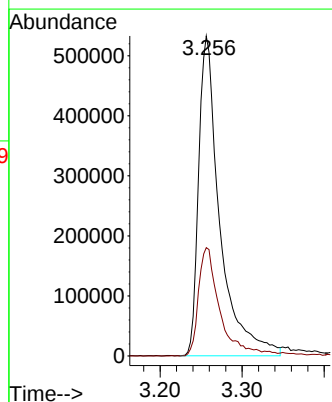
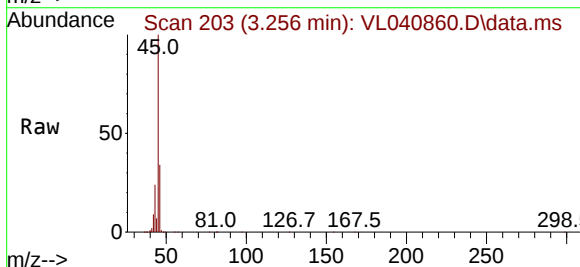
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-7

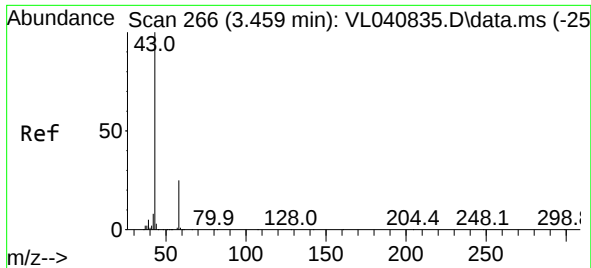
Tgt Ion:101 Resp: 4986
Ion Ratio Lower Upper
101 100
151 108.3 57.8 86.6#



#13
Ethanol
Concen: 89.706 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 45 Resp: 956201
Ion Ratio Lower Upper
45 100
46 35.5 0.0 0.0#

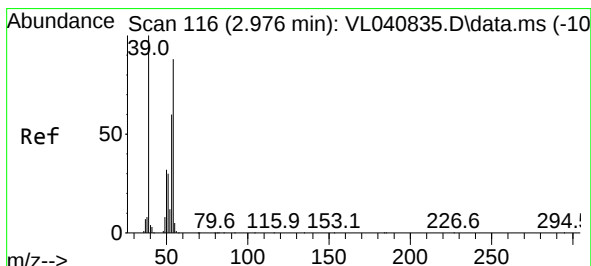
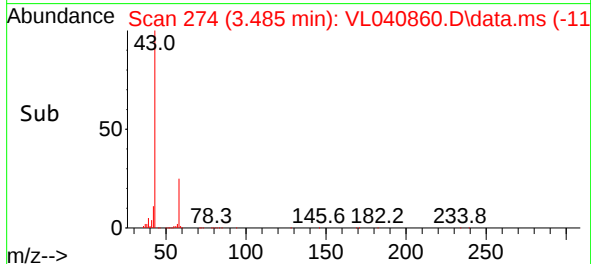
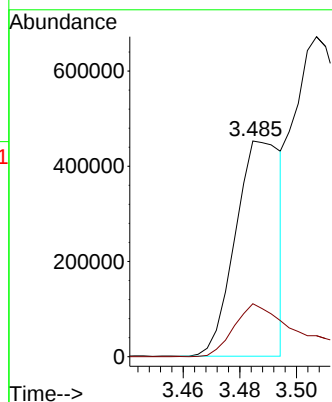
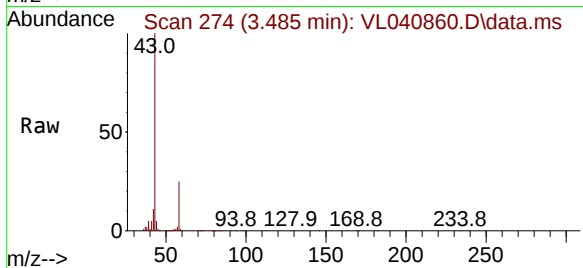




#15
Acetone
Concen: 4.613 ppbv
RT: 3.485 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

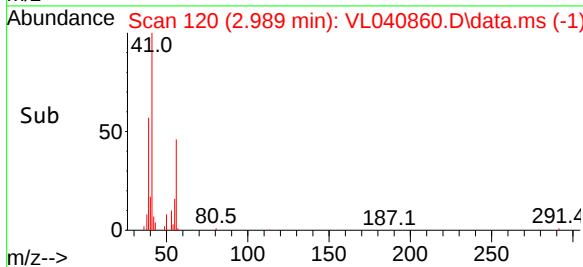
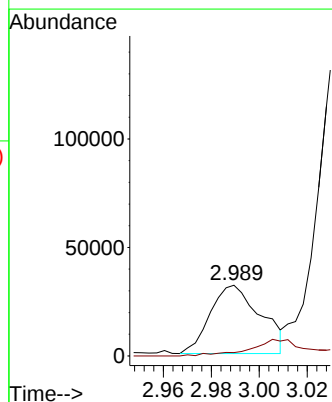
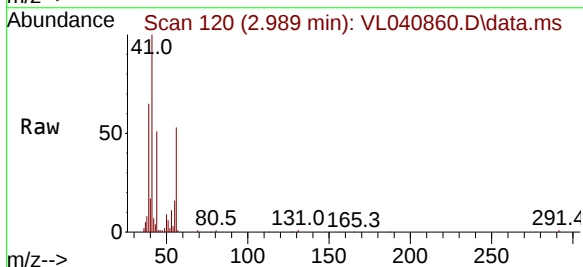
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MSVOA_L
ClientSampleId :
NT-IA-7

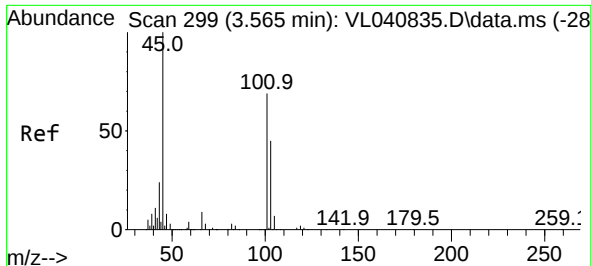
Tgt Ion: 43 Resp: 501199
Ion Ratio Lower Upper
43 100
58 37.8 20.9 31.3#



#16
1,3-Butadiene
Concen: 0.834 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.013 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 39 Resp: 45823
Ion Ratio Lower Upper
39 100
54 32.2 61.8 92.6#





#19

Isopropyl Alcohol

Concen: 4.021 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.029 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

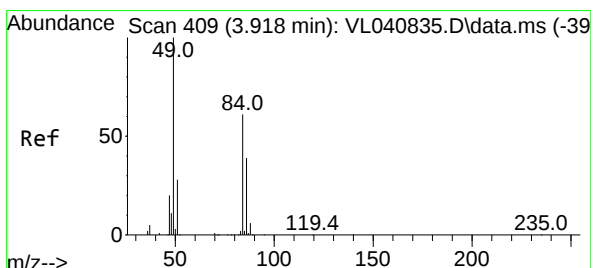
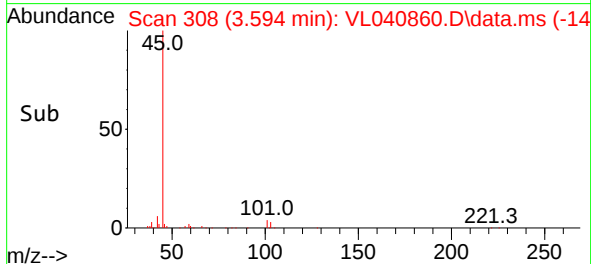
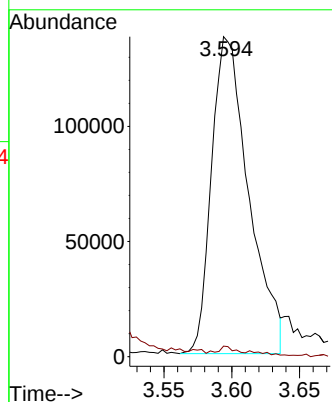
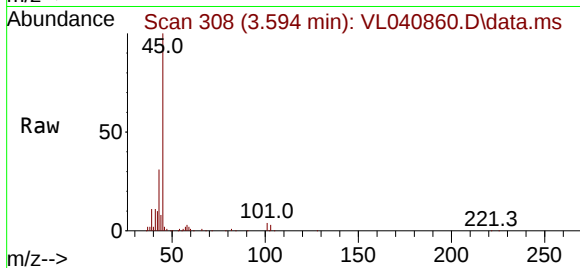
NT-IA-7

Tgt Ion: 45 Resp: 262943

Ion Ratio Lower Upper

45 100

58 2.8 1.6 2.4#



#20

Methylene Chloride

Concen: 4.896 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.026 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Tgt Ion: 84 Resp: 219563

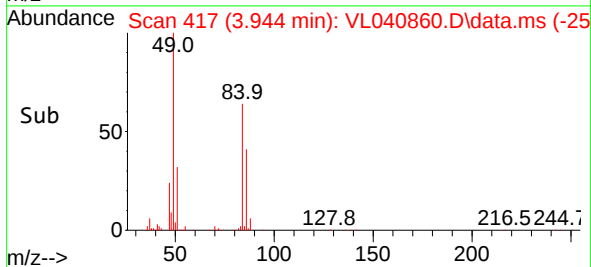
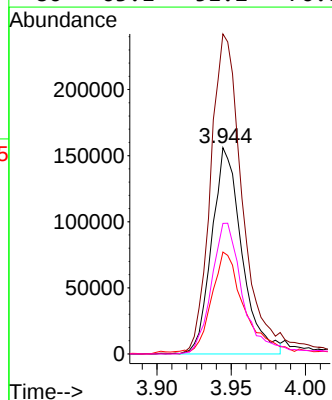
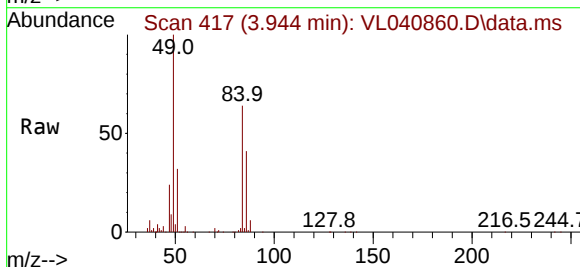
Ion Ratio Lower Upper

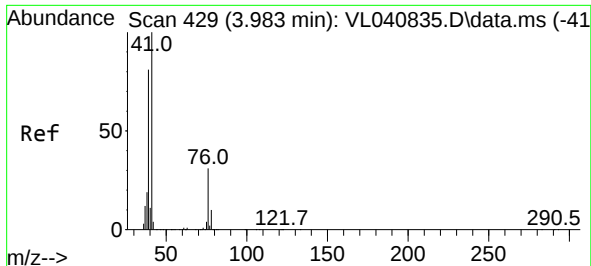
84 100

49 154.9 131.0 196.4

51 48.2 36.9 55.3

86 63.1 51.2 76.8





#21

Allyl Chloride

Concen: 0.765 ppbv

RT: 3.970 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-7

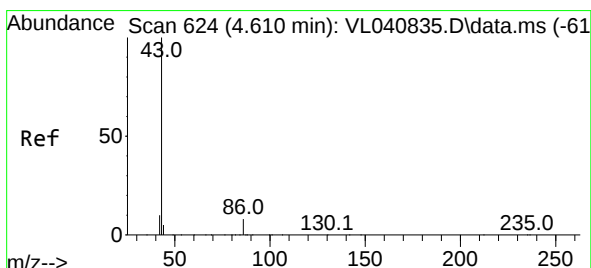
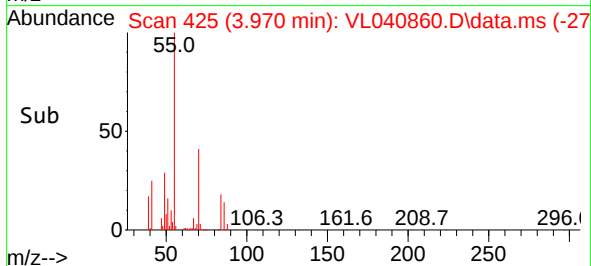
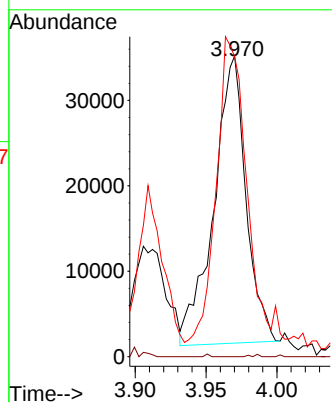
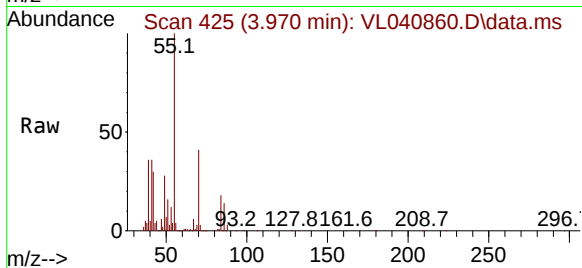
Tgt Ion: 41 Resp: 53177

Ion Ratio Lower Upper

41 100

76 0.2 24.4 36.6#

39 121.8 68.1 102.1#



#23

Vinyl Acetate

Concen: 0.988 ppbv

RT: 4.616 min Scan# 626

Delta R.T. 0.007 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Tgt Ion: 43 Resp: 138646

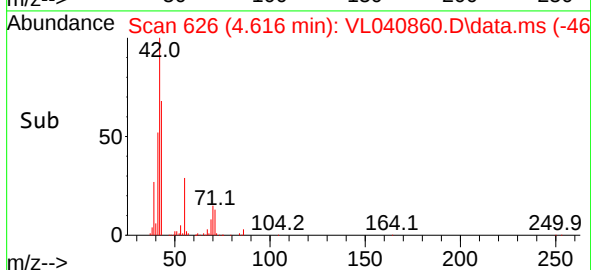
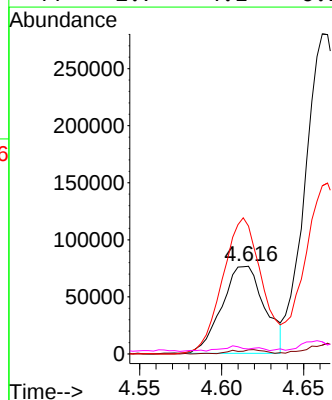
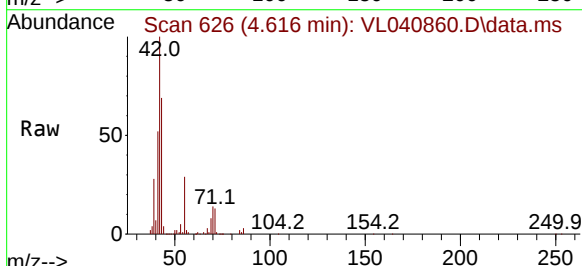
Ion Ratio Lower Upper

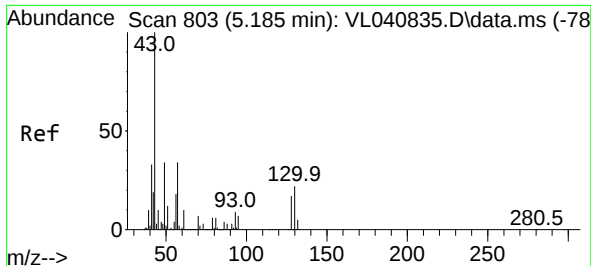
43 100

86 4.8 5.5 8.3#

42 145.9 8.2 12.2#

44 2.7 4.1 6.1#





#25

Ethyl Acetate

Concen: 1.549 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.026 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-7

Tgt Ion: 43 Resp: 348582

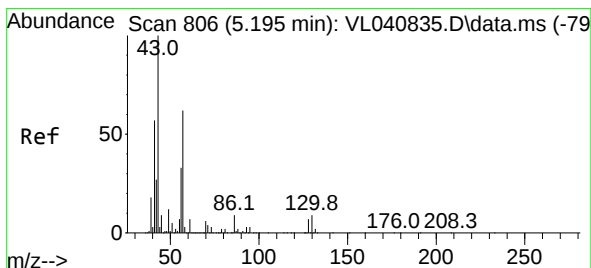
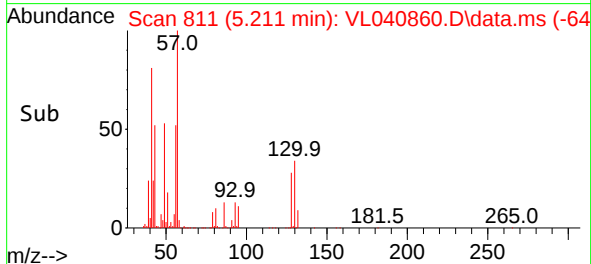
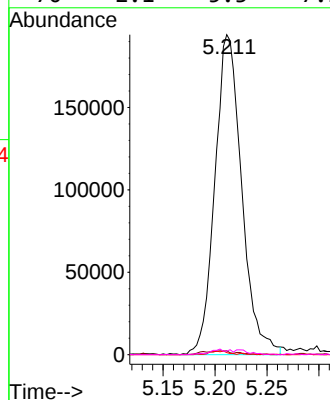
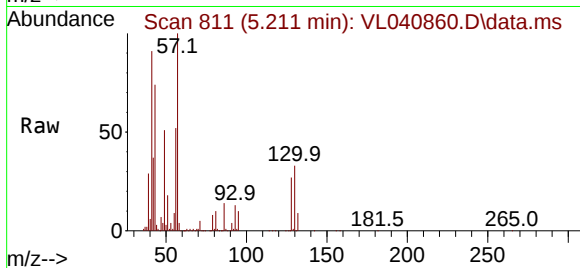
Ion Ratio Lower Upper

43 100

45 1.5 8.1 12.1#

61 1.0 7.8 11.6#

70 2.1 5.3 7.9#



#26

Hexane

Concen: 4.733 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.019 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Tgt Ion: 57 Resp: 471252

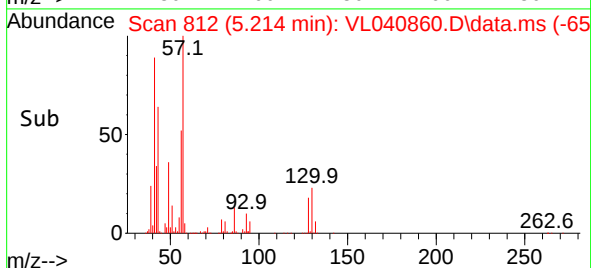
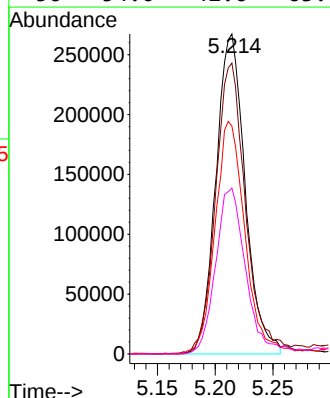
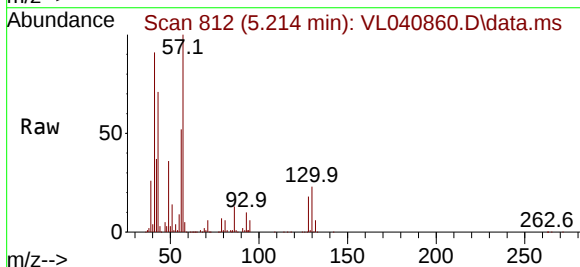
Ion Ratio Lower Upper

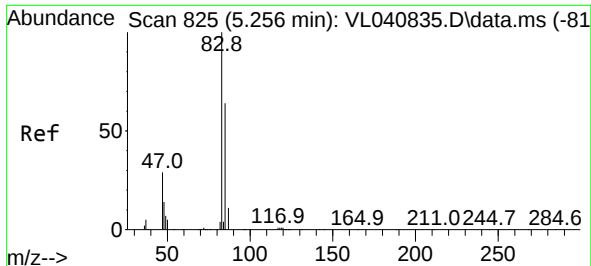
57 100

41 95.0 75.4 113.0

43 76.9 185.9 278.9#

56 54.0 42.6 63.8





#29

Chloroform

Concen: 0.034 ppbv

RT: 5.275 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

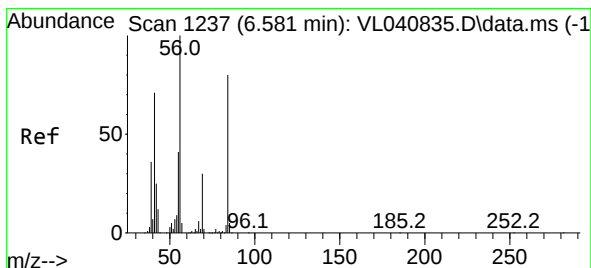
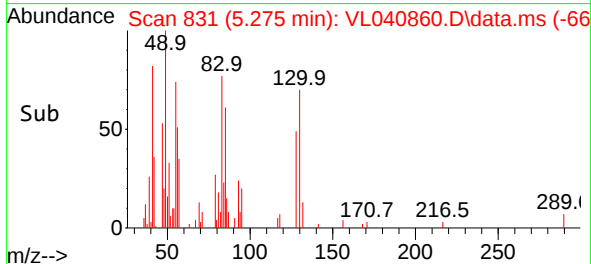
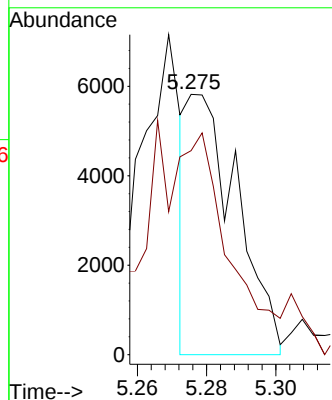
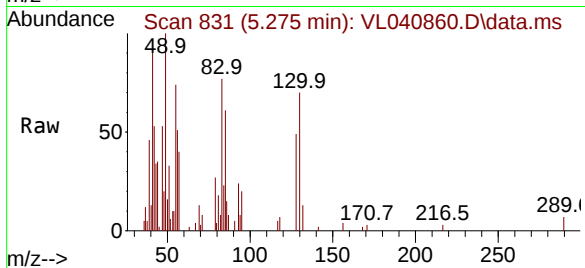
NT-IA-7

Tgt Ion: 83 Resp: 5794

Ion Ratio Lower Upper

83 100

85 66.9 51.4 77.0



#30

Cyclohexane

Concen: 0.699 ppbv

RT: 6.591 min Scan# 1240

Delta R.T. 0.010 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

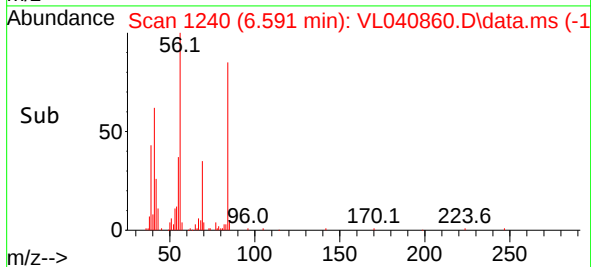
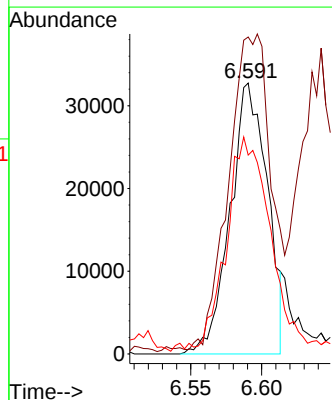
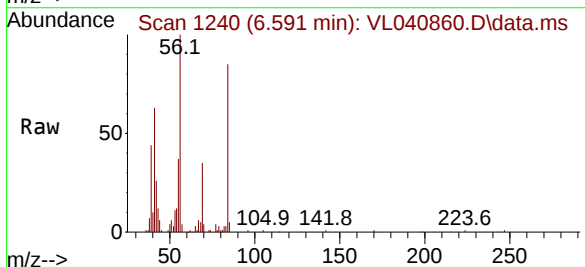
Tgt Ion: 84 Resp: 59838

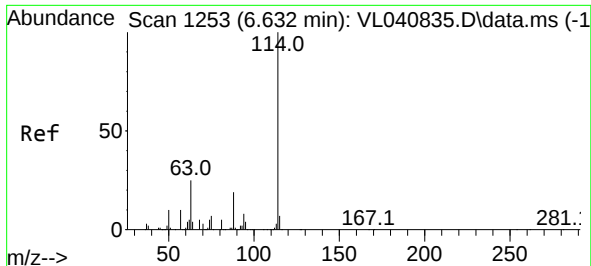
Ion Ratio Lower Upper

84 100

56 134.3 109.3 163.9

41 96.8 71.4 107.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-7

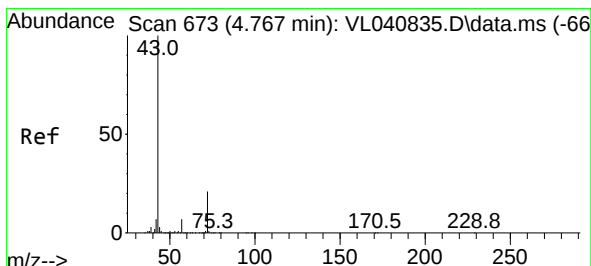
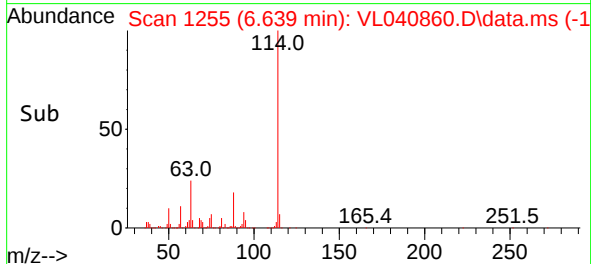
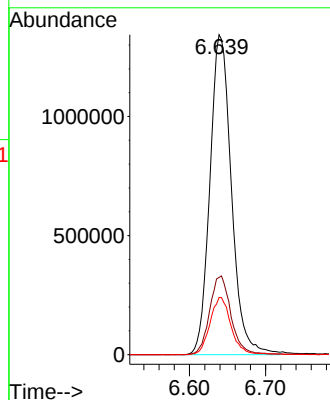
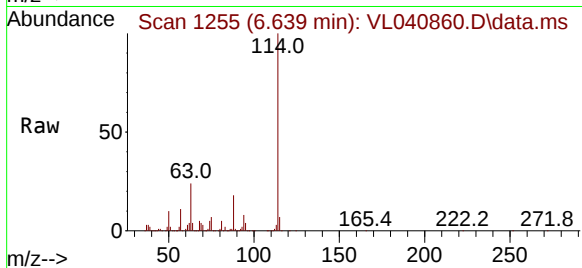
Tgt Ion:114 Resp: 2642849

Ion Ratio Lower Upper

114 100

63 24.7 20.9 31.3

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.267 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.019 min

Lab File: VL040860.D

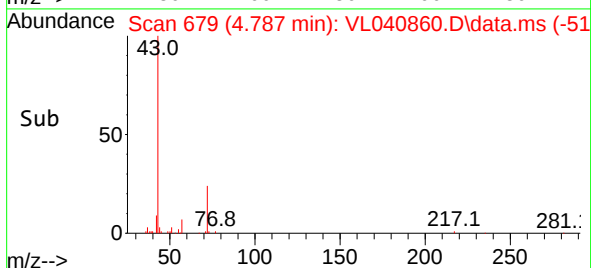
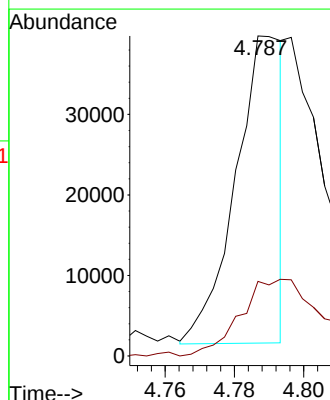
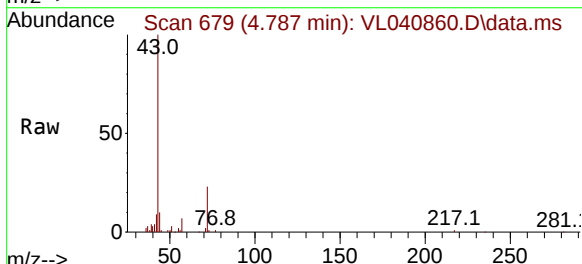
Acq: 14 Nov 2023 21:11

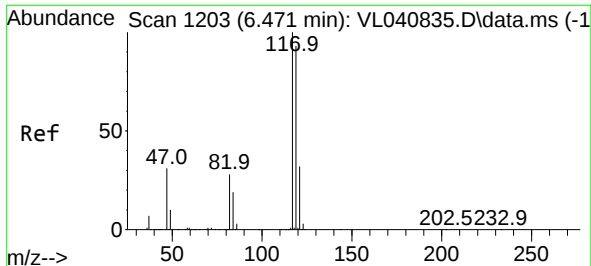
Tgt Ion: 43 Resp: 35988

Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#

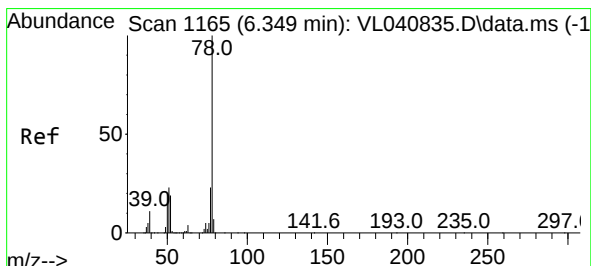
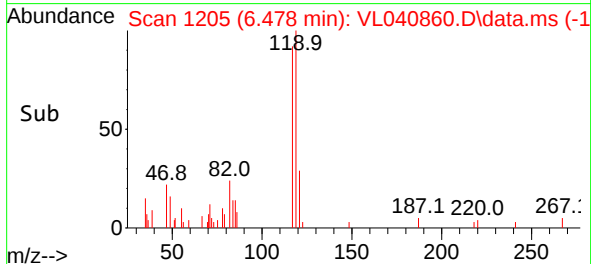
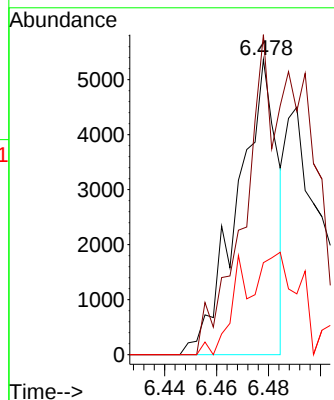
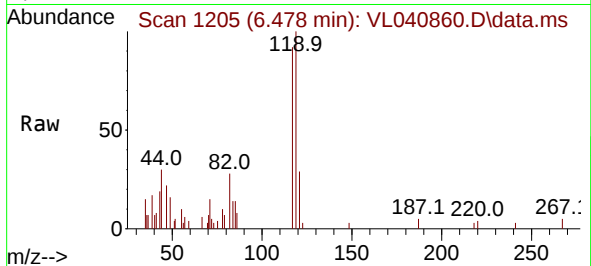




#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.478 min Scan# 1169
Delta R.T. 0.007 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

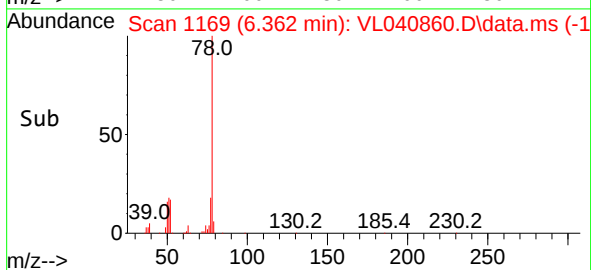
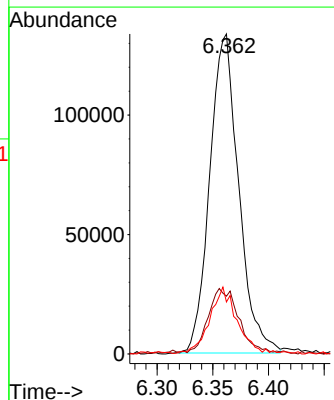
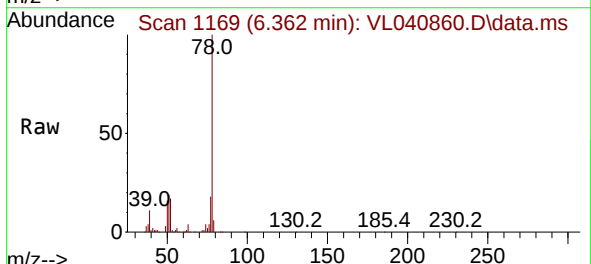
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-7

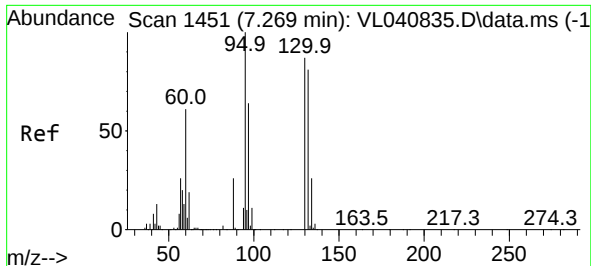
Tgt Ion:117 Resp: 5689
Ion Ratio Lower Upper
117 100
119 108.4 74.7 112.1
121 31.1 25.5 38.3



#36
Benzene
Concen: 1.125 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 78 Resp: 241402
Ion Ratio Lower Upper
78 100
77 17.5 18.4 27.6#
50 15.8 16.2 24.2#



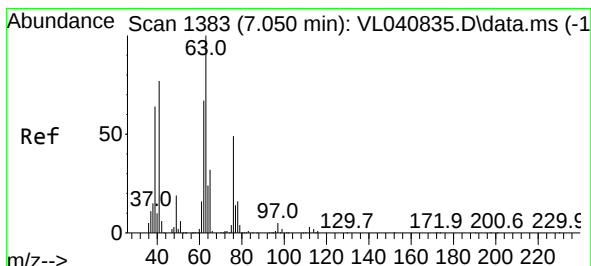
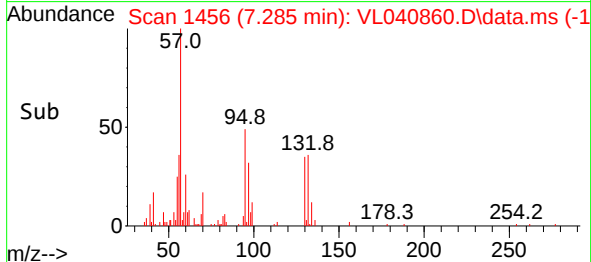
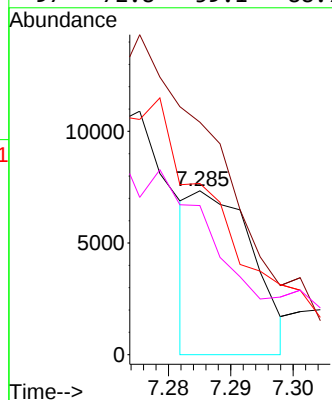
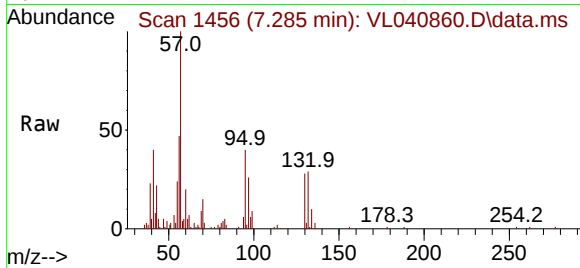


#38
 Trichloroethene
 Concen: 0.060 ppbv
 RT: 7.285 min Scan# 1451
 Delta R.T. 0.016 min
 Lab File: VL040860.D
 Acq: 14 Nov 2023 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-7

Tgt Ion:130 Resp: 5009

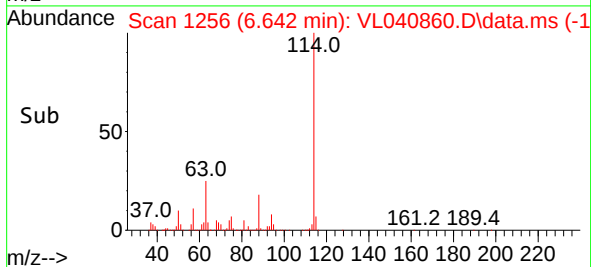
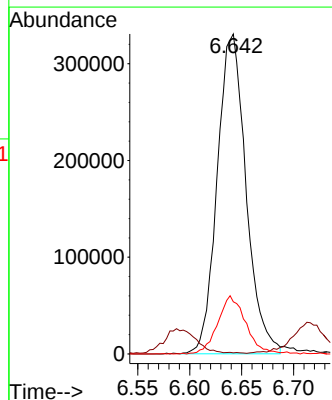
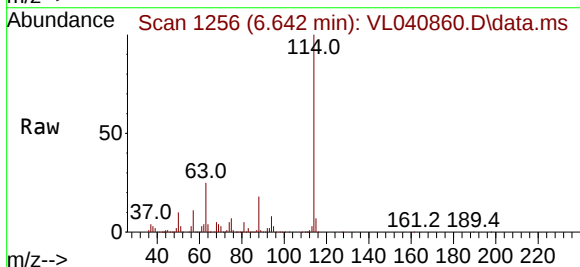
Ion	Ratio	Lower	Upper
130	100		
95	130.0	92.4	138.6
132	80.4	75.1	112.7
97	72.8	59.1	88.7

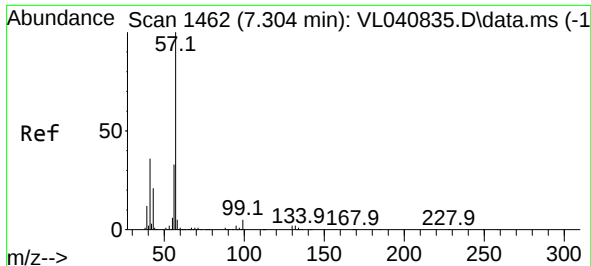


#39
 1,2-Dichloropropane
 Concen: 7.498 ppbv
 RT: 6.642 min Scan# 1256
 Delta R.T. -0.408 min
 Lab File: VL040860.D
 Acq: 14 Nov 2023 21:11

Tgt Ion: 63 Resp: 637636

Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	16.3	53.9	80.9#

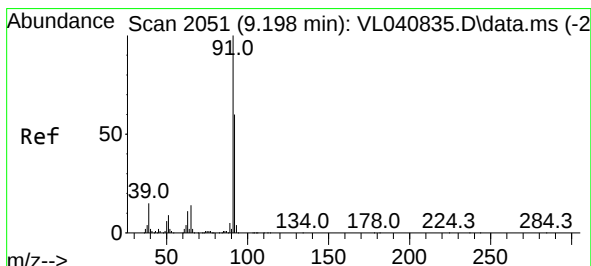
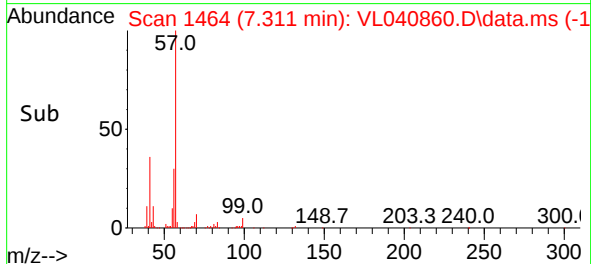
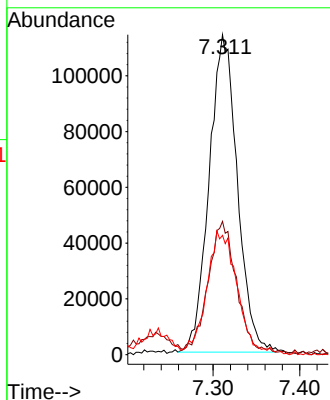
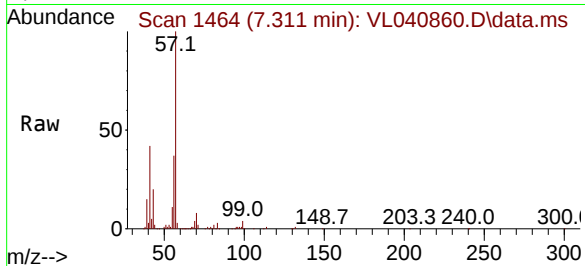




#44
2,2,4-Trimethylpentane
Concen: 0.723 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.007 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

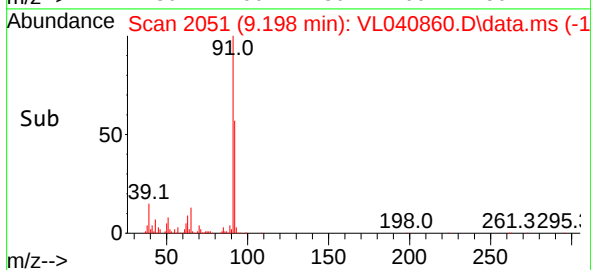
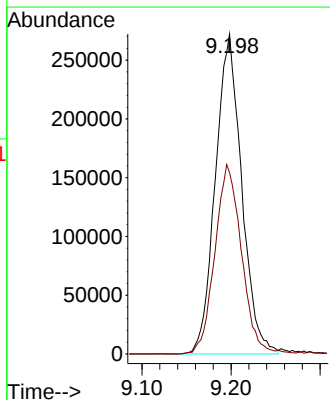
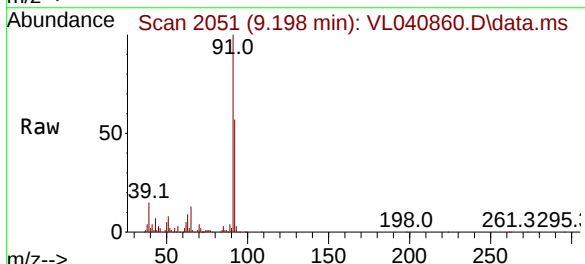
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-7

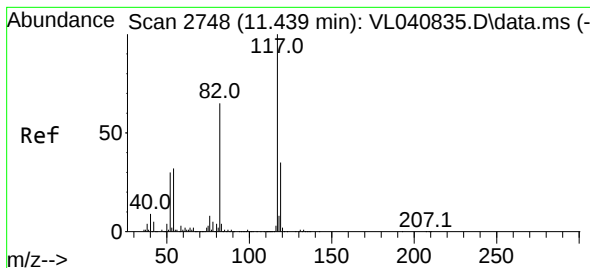
Tgt Ion: 57 Resp: 257578
Ion Ratio Lower Upper
57 100
41 41.5 29.0 43.6
56 42.4 25.2 37.8#



#53
Toluene
Concen: 2.364 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. 0.000 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 91 Resp: 557897
Ion Ratio Lower Upper
91 100
92 60.5 49.4 74.2

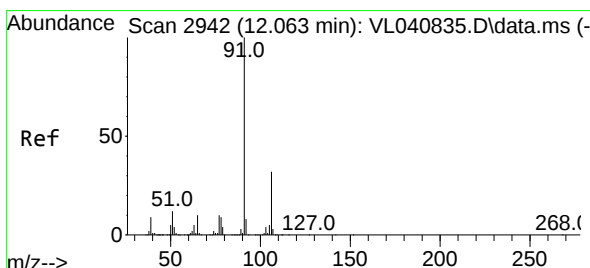
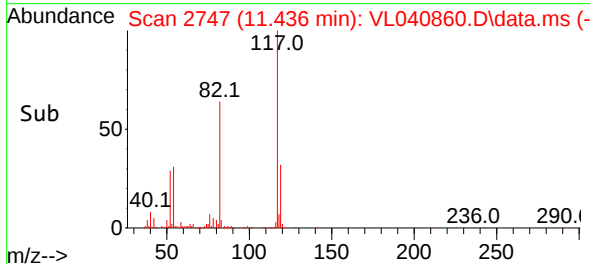
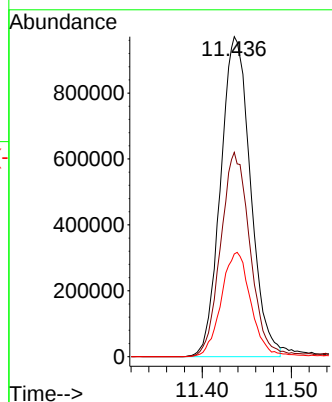
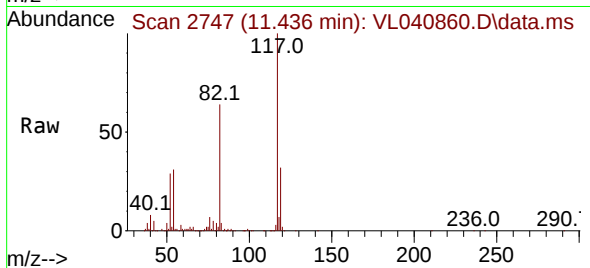




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

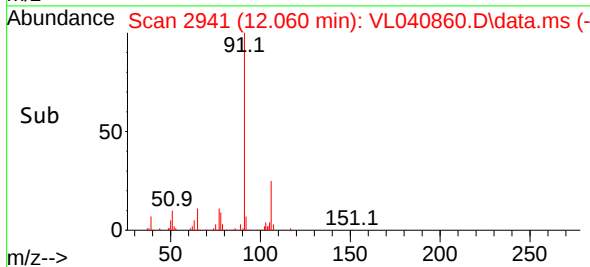
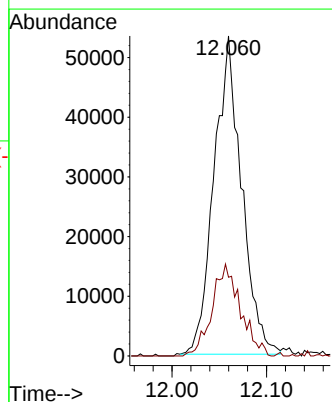
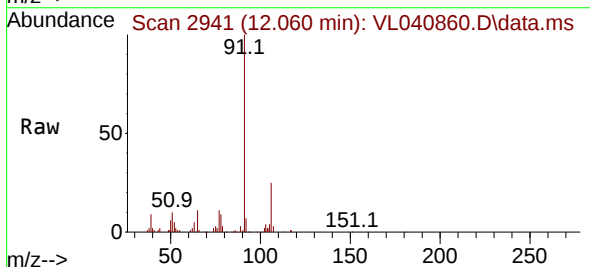
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-7

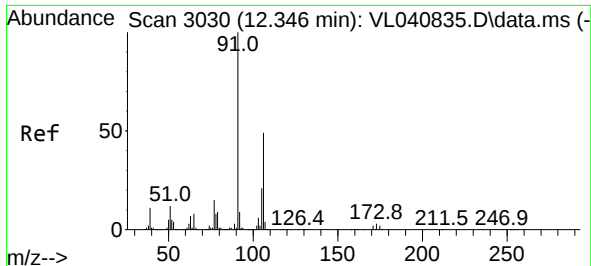
Tgt Ion:117 Resp: 2259130
Ion Ratio Lower Upper
117 100
82 64.4 50.6 75.8
119 32.9 23.3 34.9



#58
Ethyl Benzene
Concen: 0.367 ppbv
RT: 12.060 min Scan# 2941
Delta R.T. -0.003 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

Tgt Ion: 91 Resp: 108098
Ion Ratio Lower Upper
91 100
106 24.8 25.2 37.8#





#59

m/p-Xylene

Concen: 0.313 ppbv

RT: 12.340 min Scan# 3030

Delta R.T. -0.006 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

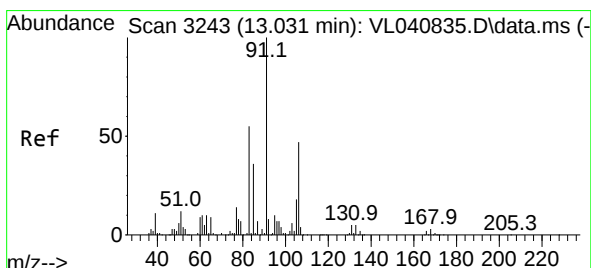
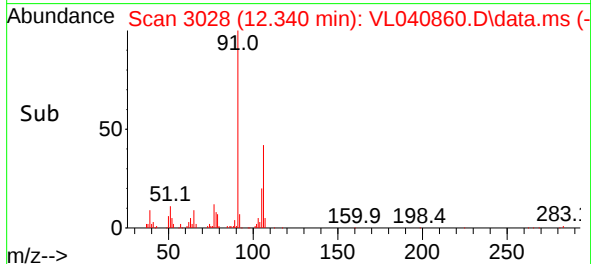
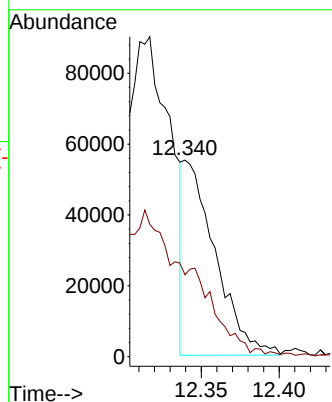
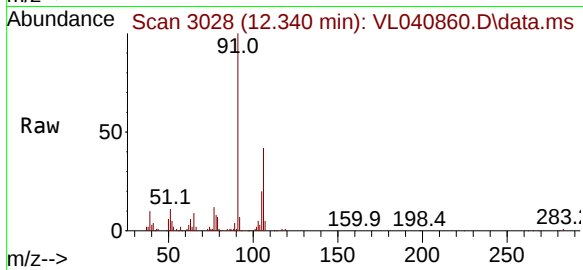
NT-IA-7

Tgt Ion: 91 Resp: 78639

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#



#60

o-Xylene

Concen: 0.421 ppbv

RT: 13.031 min Scan# 3243

Delta R.T. 0.000 min

Lab File: VL040860.D

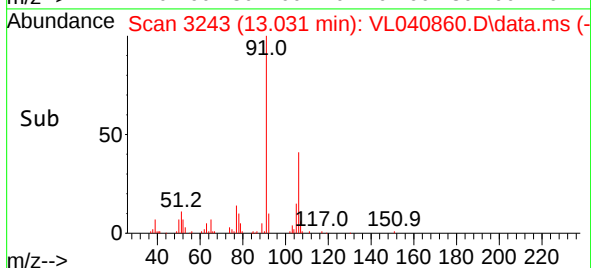
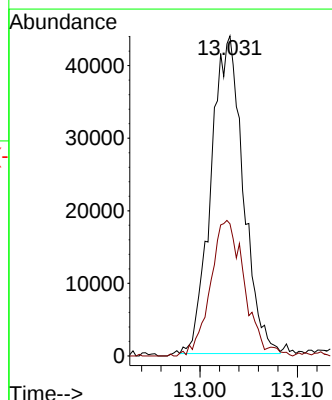
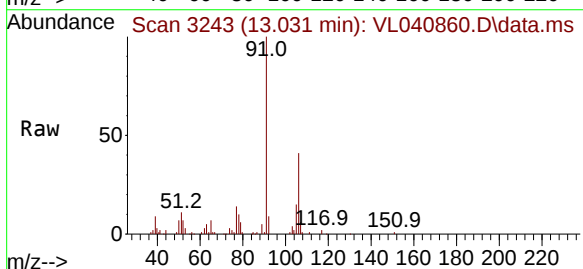
Acq: 14 Nov 2023 21:11

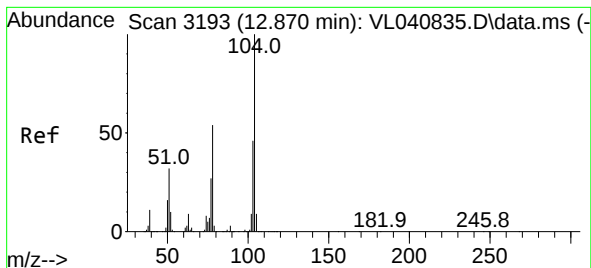
Tgt Ion: 91 Resp: 100509

Ion Ratio Lower Upper

91 100

106 45.1 22.9 68.5





#61

Styrene

Concen: 0.036 ppbv

RT: 12.873 min Scan# 3193

Delta R.T. 0.003 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-7

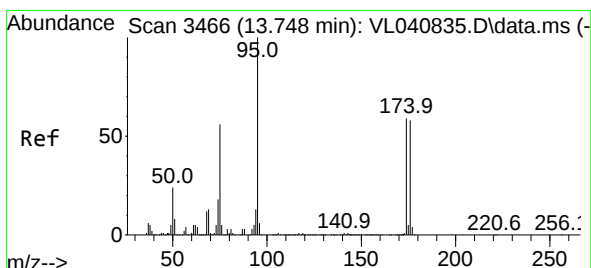
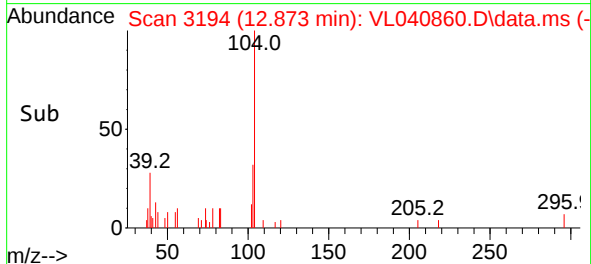
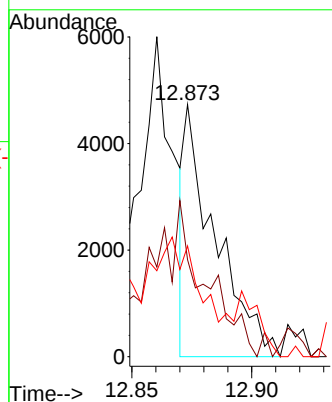
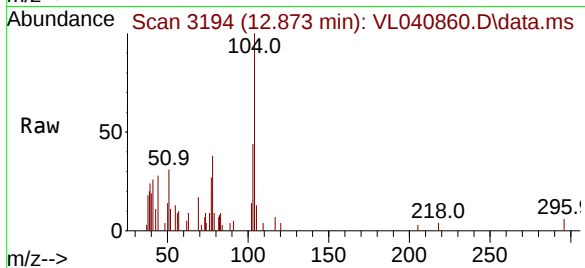
Tgt Ion:104 Resp: 4190

Ion Ratio Lower Upper

104 100

78 125.1 43.3 64.9#

103 120.3 37.6 56.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.760 ppbv

RT: 13.745 min Scan# 3465

Delta R.T. -0.003 min

Lab File: VL040860.D

Acq: 14 Nov 2023 21:11

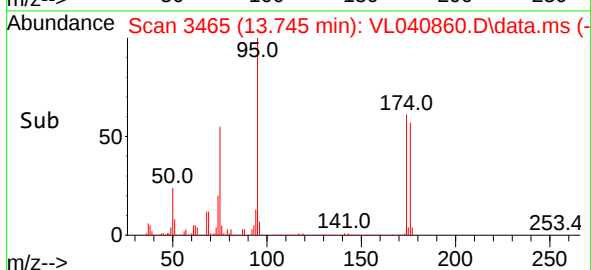
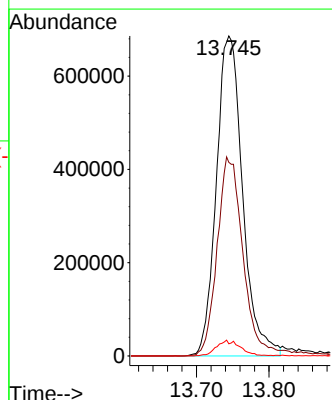
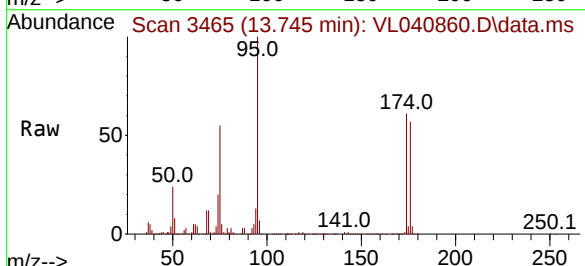
Tgt Ion: 95 Resp: 1726296

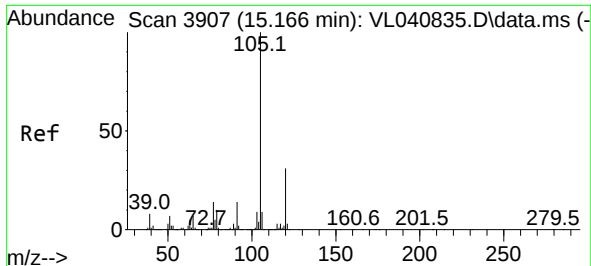
Ion Ratio Lower Upper

95 100

174 62.9 47.5 71.3

175 4.6 3.6 5.4

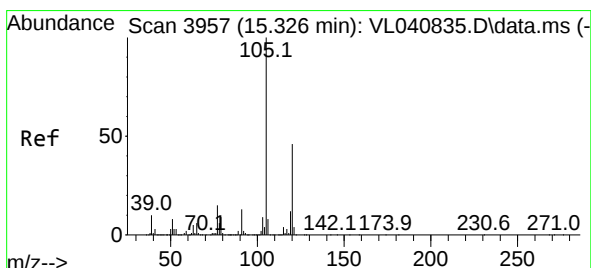
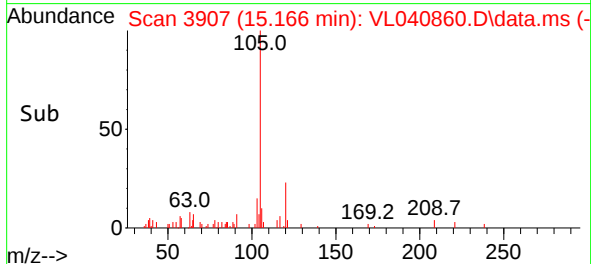
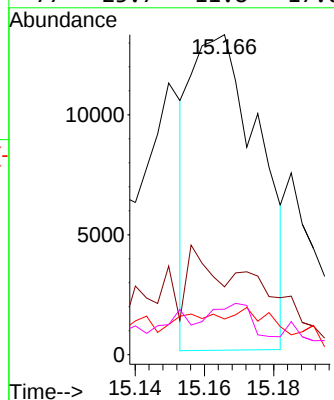
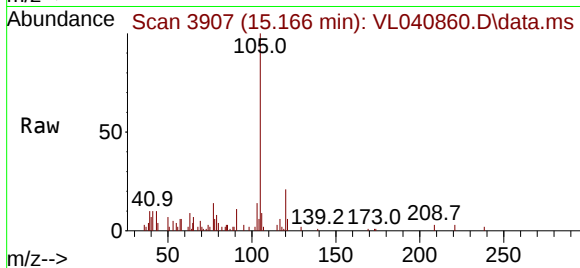




#72
4-Ethyltoluene
Concen: 0.069 ppbv
RT: 15.166 min Scan# 3907
Delta R.T. 0.000 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

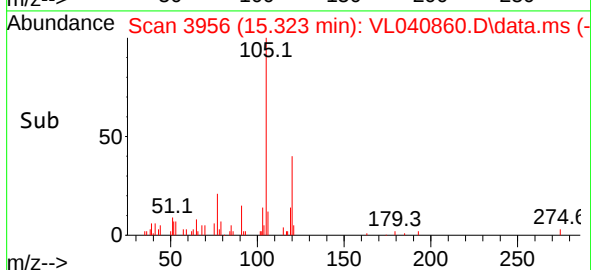
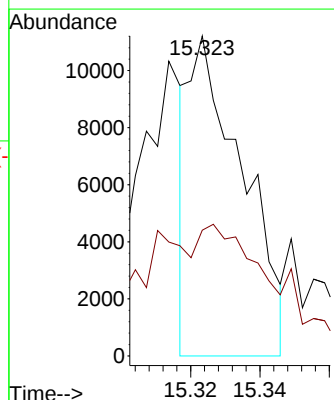
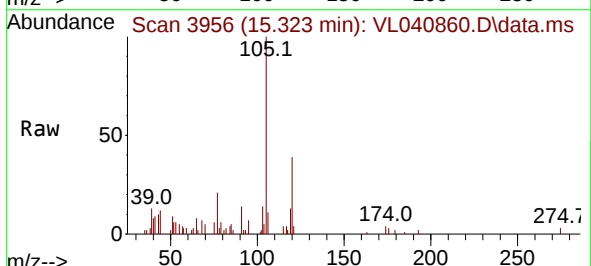
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-7

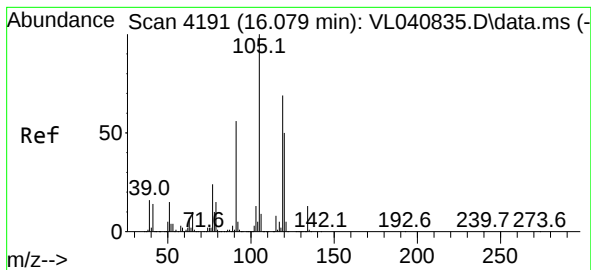
Tgt Ion:	105	Resp:	18036
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.5	36.7#
91	28.4	10.6	16.0#
77	23.7	11.8	17.6#



#73
1,3,5-Trimethylbenzene
Concen: 0.052 ppbv
RT: 15.323 min Scan# 3956
Delta R.T. -0.003 min
Lab File: VL040860.D
Acq: 14 Nov 2023 21:11

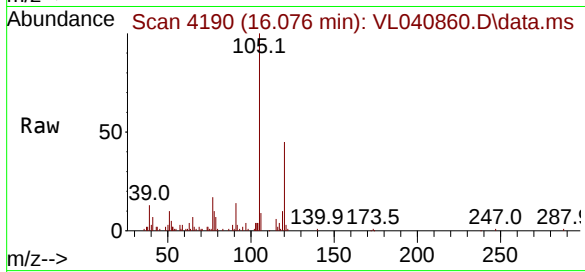
Tgt Ion:	105	Resp:	12120
Ion Ratio	Lower	Upper	
105	100		
120	31.8	36.8	55.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.219 ppbv
 RT: 16.076 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040860.D
 Acq: 14 Nov 2023 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-7



Tgt Ion:	105	Resp:	56806
Ion	Ratio	Lower	Upper
105	100		
120	44.3	40.2	60.2
91	14.4	45.7	68.5#
77	15.4	19.2	28.8#

