

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040858.D
 Acq On : 14 Nov 2023 19:50
 Operator : SY/MD
 Sample : 05275-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-5

Quant Time: Nov 16 04:50:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

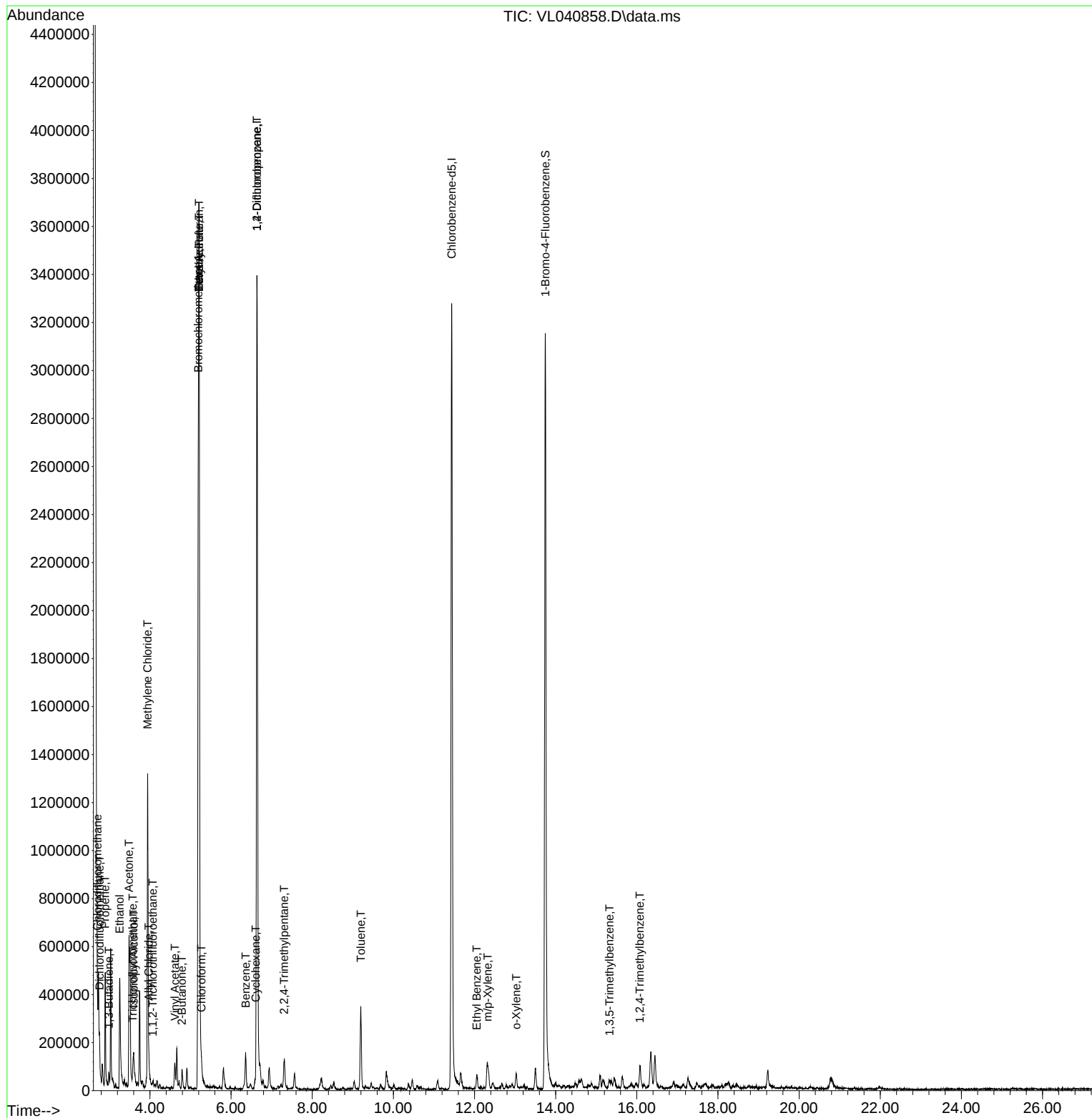
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.192	49	980973	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2644681	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2227278	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1690775	9.696	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	99193	0.499	ppbv	97
3) Chlorodifluoromethane	2.703	51	94074	0.601	ppbv #	81
9) Propene	2.896	41	100549	1.905	ppbv	84
11) Trichlorofluoromethane	3.578	101	34890	0.228	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.070	101	7233	0.067	ppbv	93
13) Ethanol	3.256	45	490100	47.818	ppbv #	100
15) Acetone	3.485	43	752391	7.201	ppbv	97
16) 1,3-Butadiene	2.989	39	14188	0.268	ppbv #	59
19) Isopropyl Alcohol	3.600	45	152521	2.426	ppbv #	1
20) Methylene Chloride	3.944	84	410084	9.511	ppbv	97
21) Allyl Chloride	3.970	41	2553	0.038	ppbv #	1
23) Vinyl Acetate	4.620	43	66763	0.495	ppbv #	57
25) Ethyl Acetate	5.211	43	952168	4.401	ppbv #	77
26) Hexane	5.211	57	1317465	13.760	ppbv #	40
29) Chloroform	5.272	83	20768	0.128	ppbv #	80
30) Cyclohexane	6.610	84	2705	0.033	ppbv #	1
34) 2-Butanone	4.790	43	96512	0.716	ppbv	95
36) Benzene	6.359	78	111141	0.518	ppbv	93
39) 1,2-Dichloropropane	6.639	63	645051	7.580	ppbv #	23
41) Tetrahydrofuran	5.211	42	490902	5.918	ppbv #	50
44) 2,2,4-Trimethylpentane	7.311	57	65304	0.183	ppbv #	39
53) Toluene	9.198	91	245741	1.040	ppbv	99
58) Ethyl Benzene	12.057	91	27342	0.094	ppbv	95
59) m/p-Xylene	12.327	91	59217	0.239	ppbv #	32
60) o-Xylene	13.031	91	48233	0.205	ppbv	96
73) 1,3,5-Trimethylbenzene	15.323	105	7387	0.032	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.072	105	30287	0.118	ppbv #	66

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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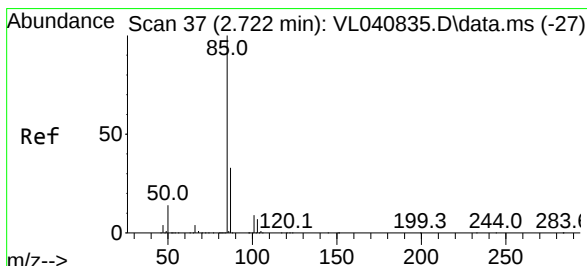
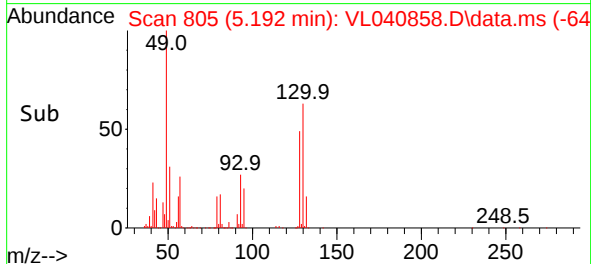
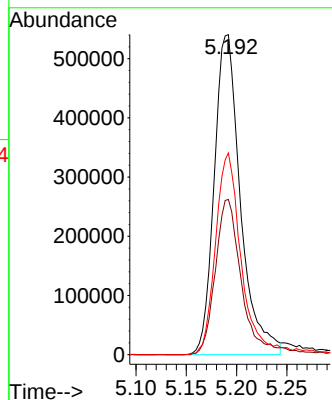
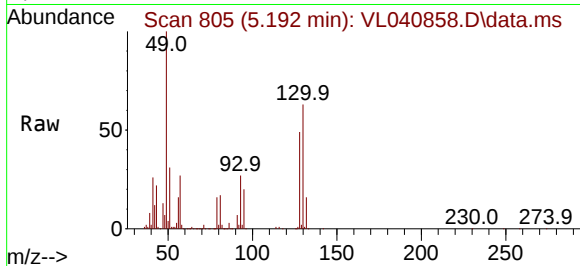




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.020 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

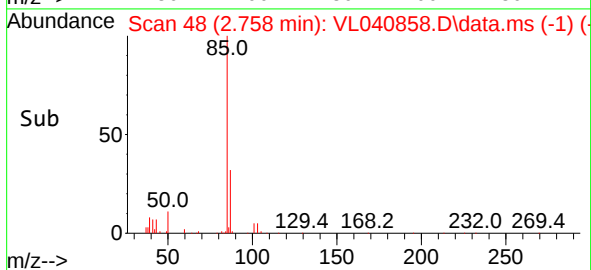
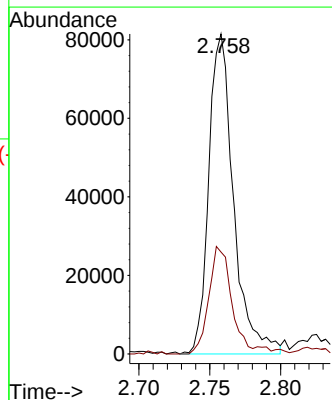
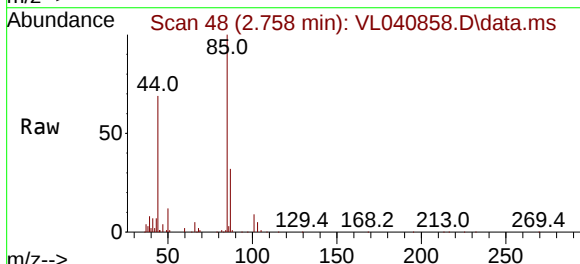
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-5

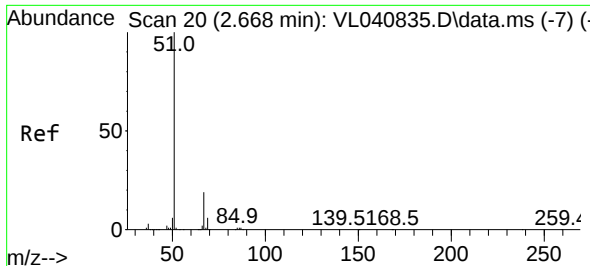
Tgt Ion: 49 Resp: 980973
 Ion Ratio Lower Upper
 49 100
 128 50.0 23.8 71.2
 130 64.2 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.499 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. 0.035 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

Tgt Ion: 85 Resp: 99193
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.7 40.1

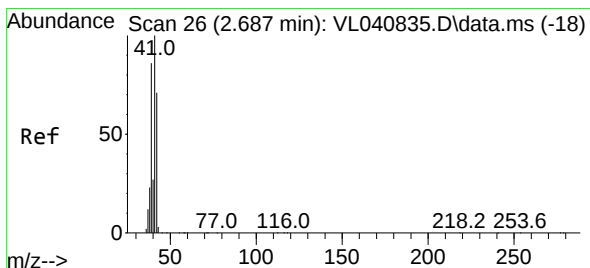
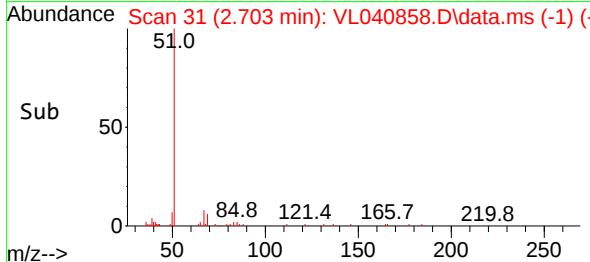
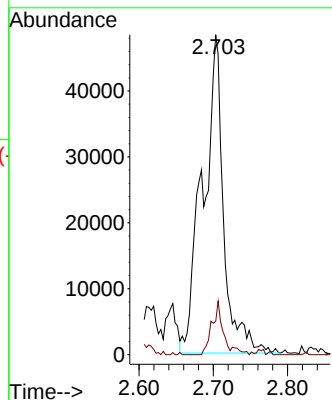
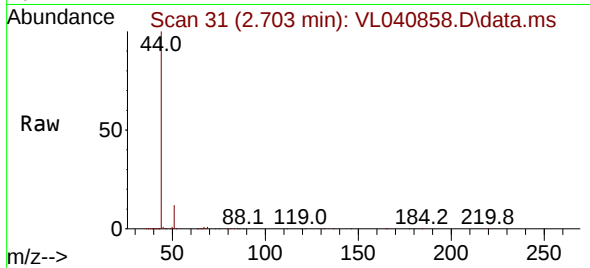




#3
Chlorodifluoromethane
Concen: 0.601 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.035 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

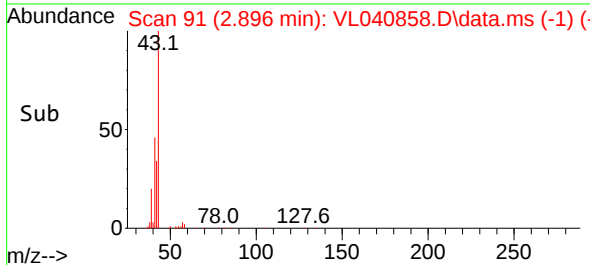
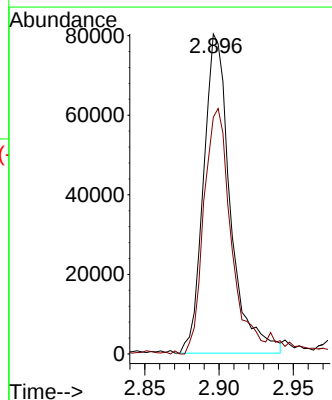
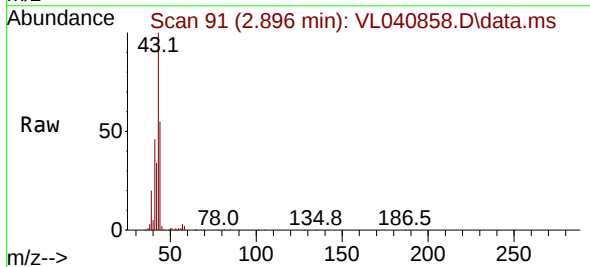
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-5

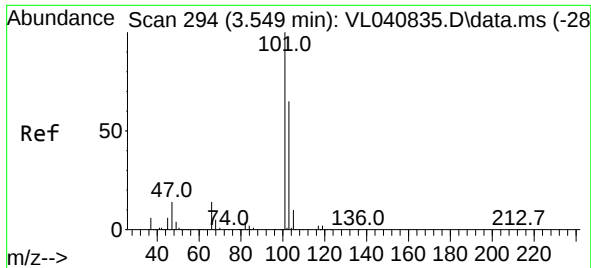
Tgt Ion: 51 Resp: 94074
Ion Ratio Lower Upper
51 100
67 10.1 15.0 22.4#



#9
Propene
Concen: 1.905 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.209 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 41 Resp: 100549
Ion Ratio Lower Upper
41 100
42 83.9 56.5 84.7

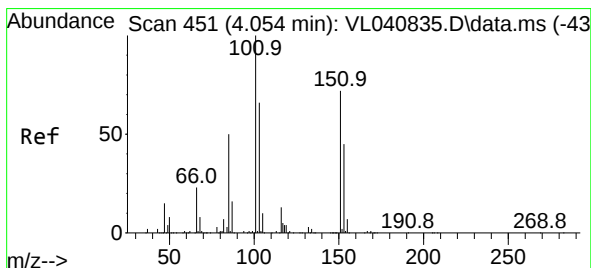
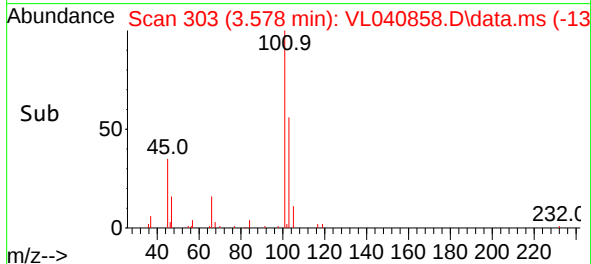
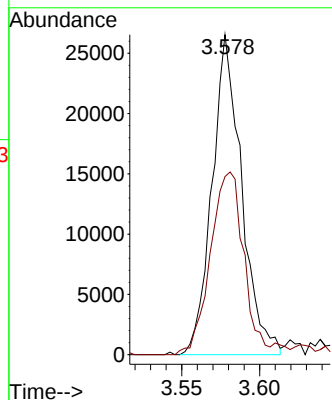
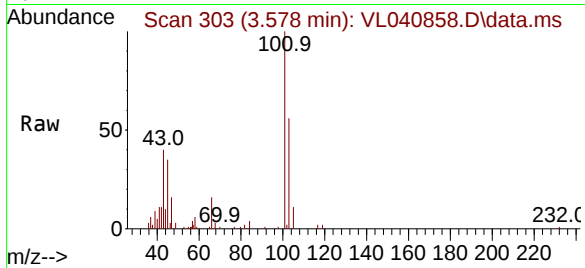




#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.029 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

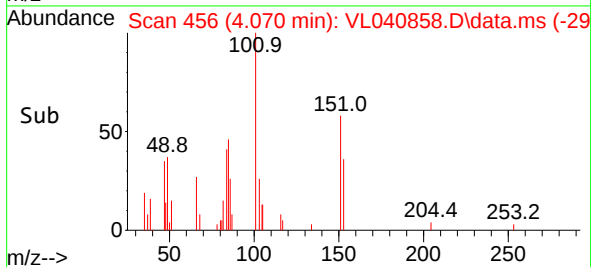
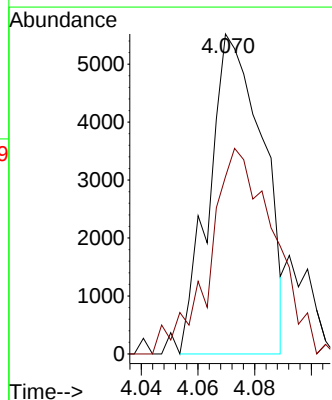
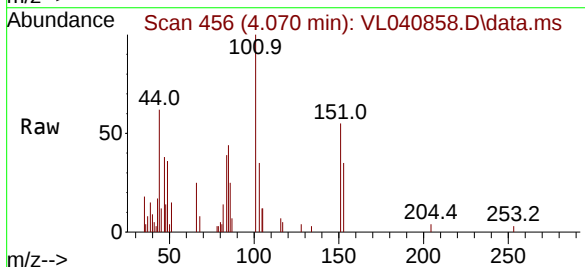
Instrument :
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 ClientSampleId :
 NT-IA-5

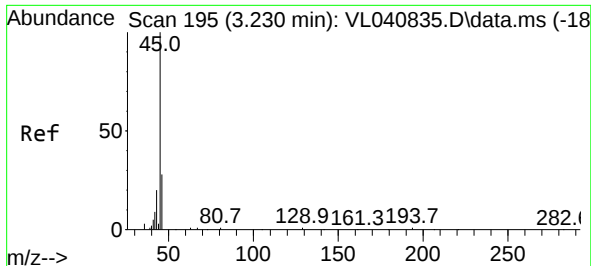
Tgt Ion:101 Resp: 34890
 Ion Ratio Lower Upper
 101 100
 103 54.3 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. 0.016 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

Tgt Ion:101 Resp: 7233
 Ion Ratio Lower Upper
 101 100
 151 78.4 57.8 86.6

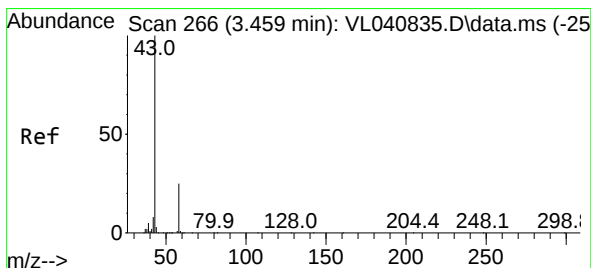
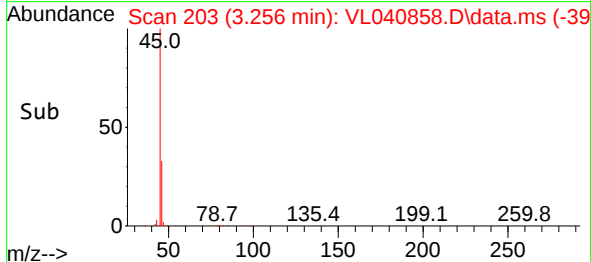
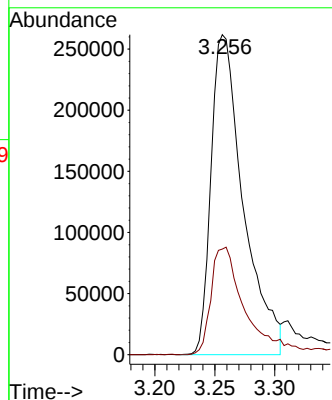
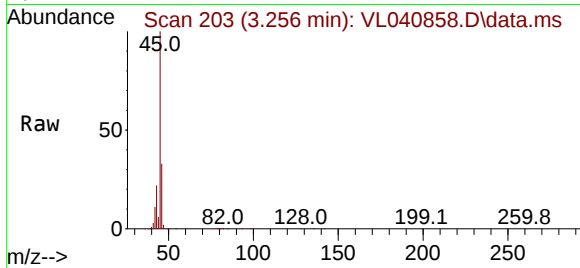




#13
 Ethanol
 Concen: 47.818 ppbv
 RT: 3.256 min Scan# 20
 Delta R.T. 0.026 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

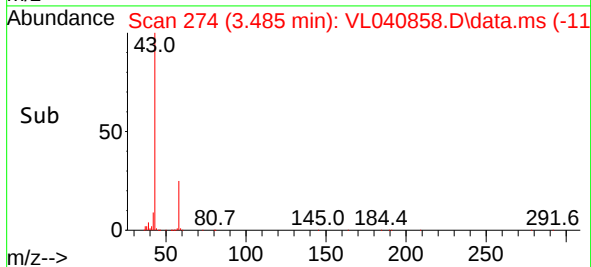
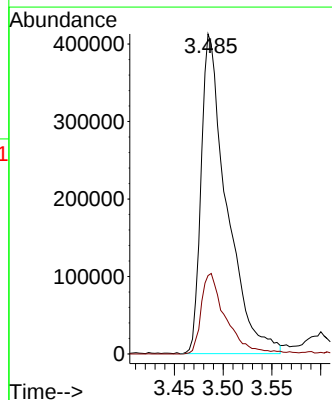
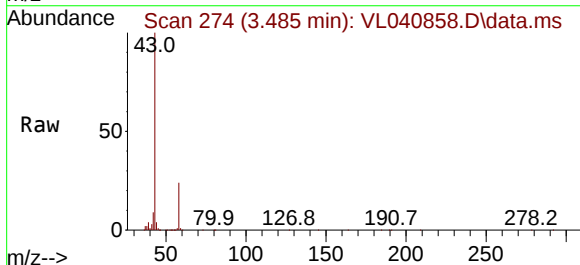
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-5

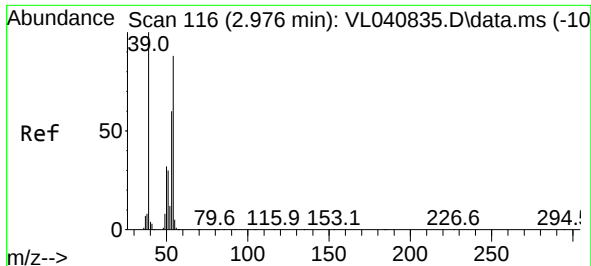
Tgt Ion: 45 Resp: 490100
 Ion Ratio Lower Upper
 45 100
 46 37.8 0.0 0.0#



#15
 Acetone
 Concen: 7.201 ppbv
 RT: 3.485 min Scan# 274
 Delta R.T. 0.026 min
 Lab File: VL040858.D
 Acq: 14 Nov 2023 19:50

Tgt Ion: 43 Resp: 752391
 Ion Ratio Lower Upper
 43 100
 58 24.4 20.9 31.3





#16

1,3-Butadiene

Concen: 0.268 ppbv

RT: 2.989 min Scan# 116

Delta R.T. 0.013 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

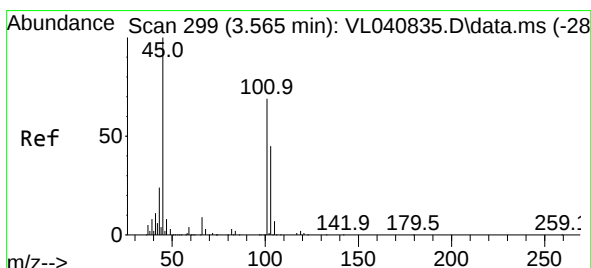
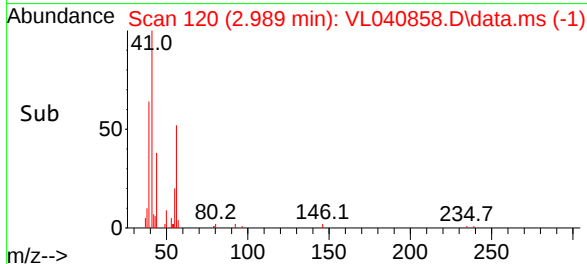
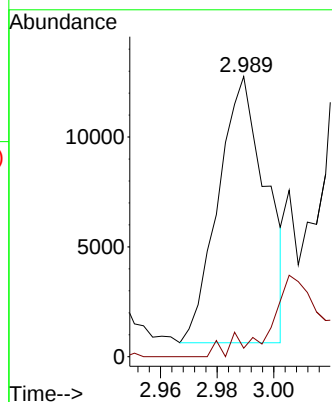
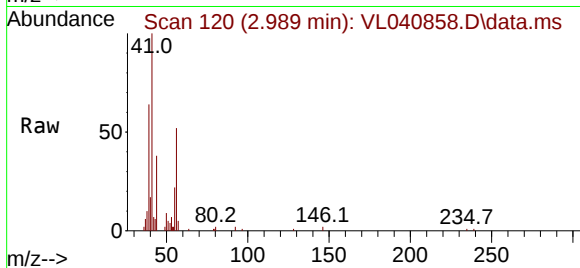
NT-IA-5

Tgt Ion: 39 Resp: 14188

Ion Ratio Lower Upper

39 100

54 41.5 61.8 92.6#



#19

Isopropyl Alcohol

Concen: 2.426 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.035 min

Lab File: VL040858.D

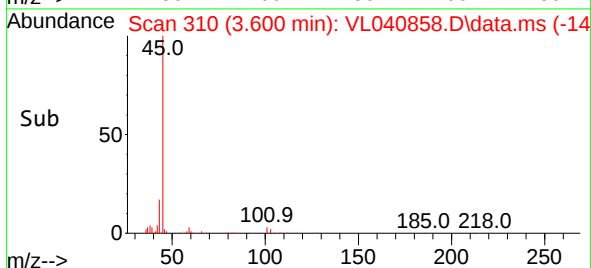
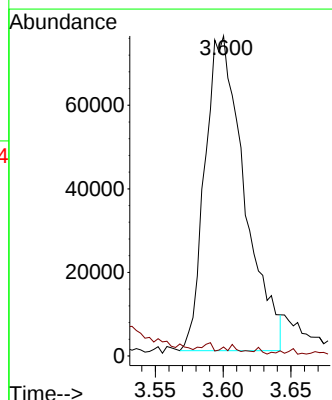
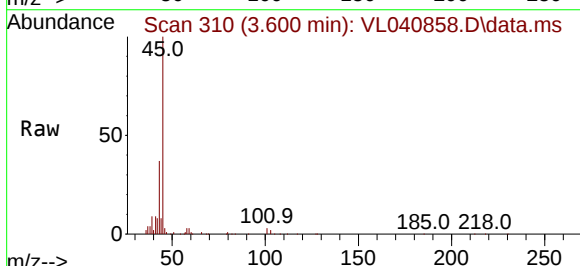
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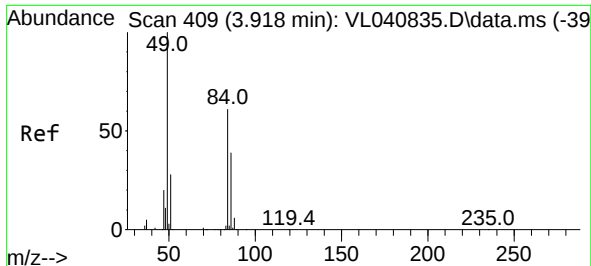
Tgt Ion: 45 Resp: 152521

Ion Ratio Lower Upper

45 100

58 120.3 1.6 2.4#





#20

Methylene Chloride

Concen: 9.511 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.026 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-5

Tgt Ion: 84 Resp: 410084

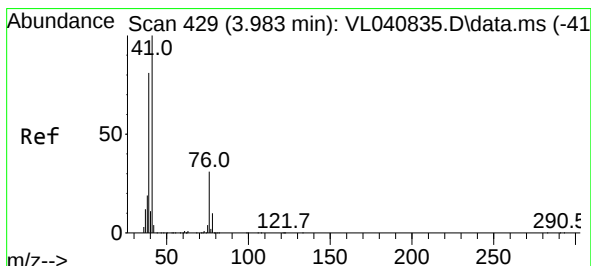
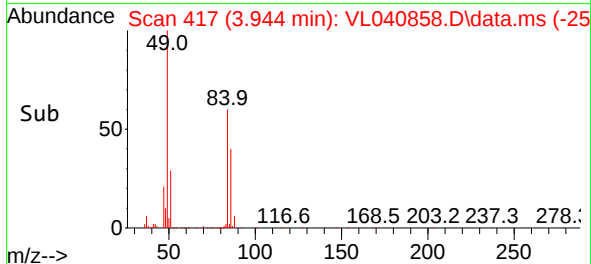
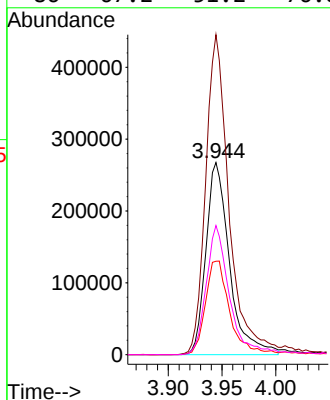
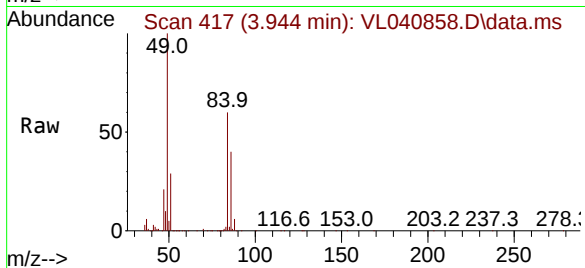
Ion Ratio Lower Upper

84 100

49 166.4 131.0 196.4

51 48.5 36.9 55.3

86 67.2 51.2 76.8



#21

Allyl Chloride

Concen: 0.038 ppbv

RT: 3.970 min Scan# 425

Delta R.T. -0.013 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

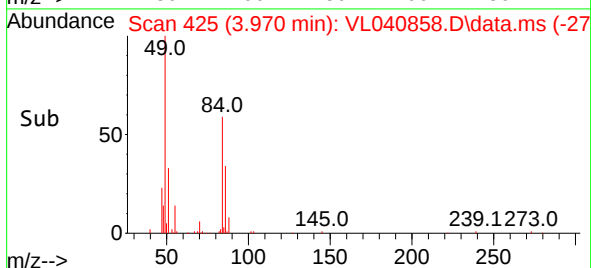
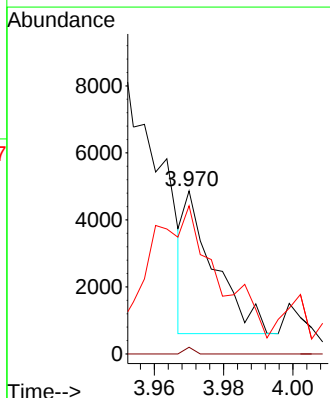
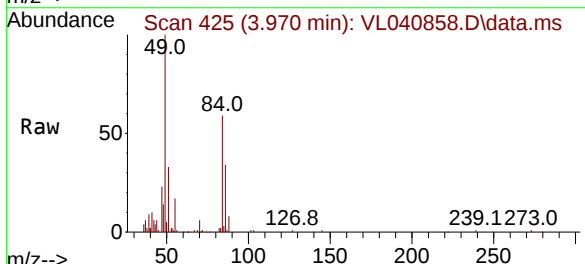
Tgt Ion: 41 Resp: 2553

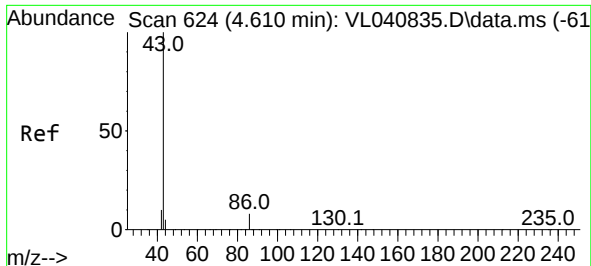
Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

39 277.4 68.1 102.1#



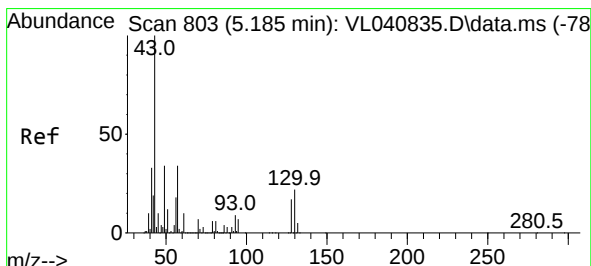
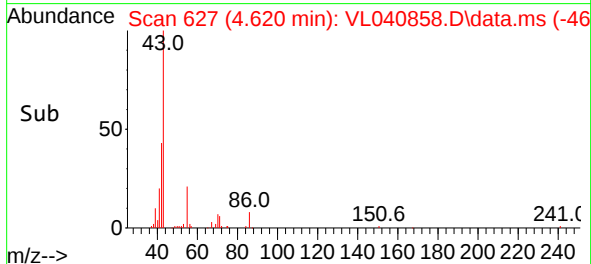
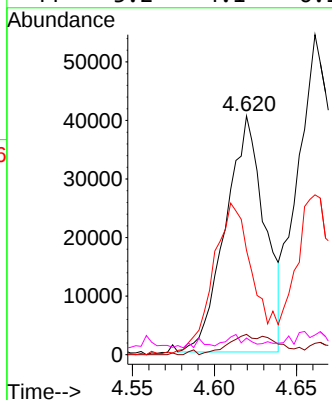
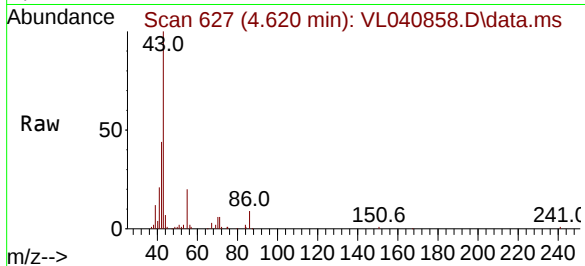


#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 4.620 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-5

Tgt Ion: 43 Resp: 66763

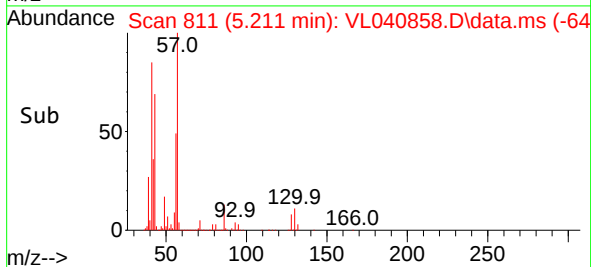
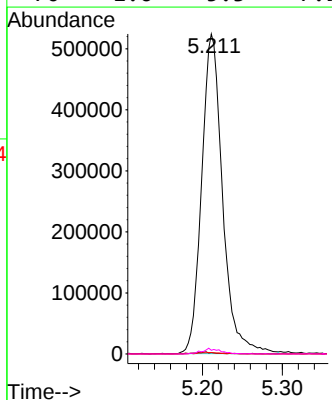
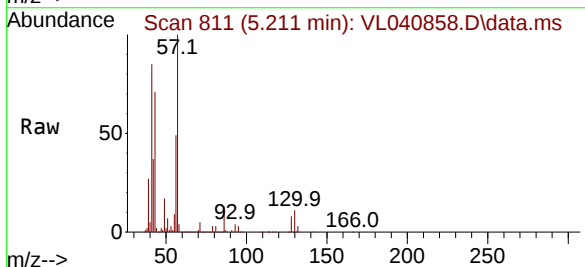
Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.5	8.3#
42	42.4	8.2	12.2#
44	3.2	4.1	6.1#

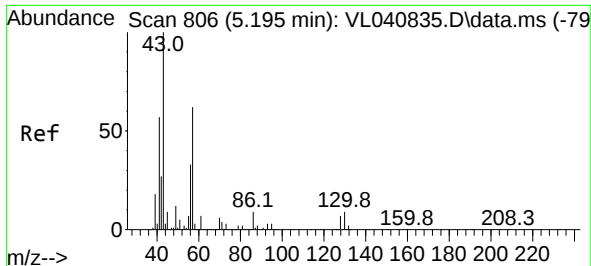


#25
Ethyl Acetate
Concen: 4.401 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 43 Resp: 952168

Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.1	12.1#
61	0.5	7.8	11.6#
70	1.6	5.3	7.9#

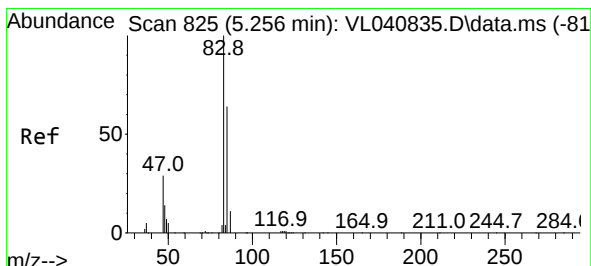
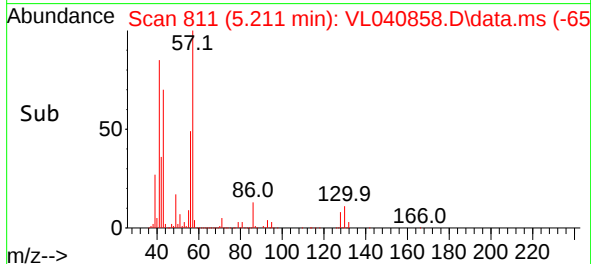
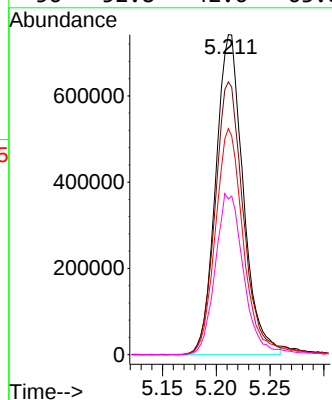
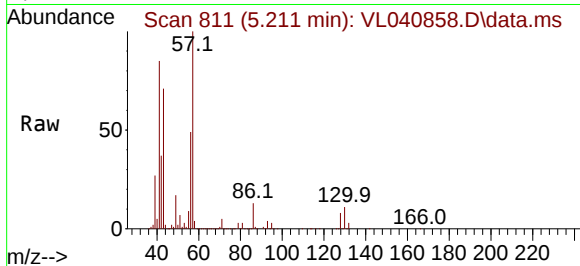




#26
Hexane
Concen: 13.760 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

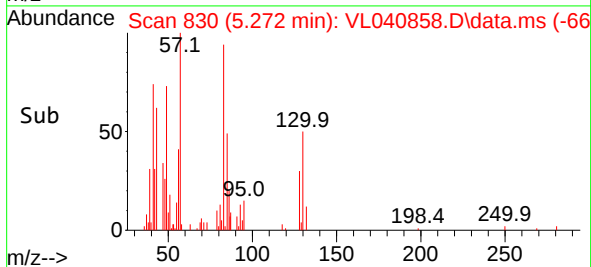
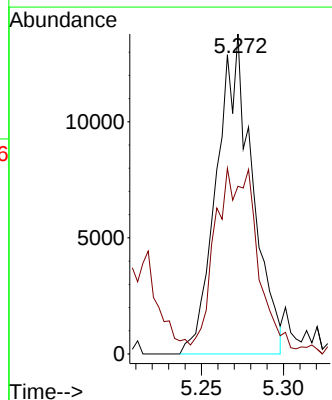
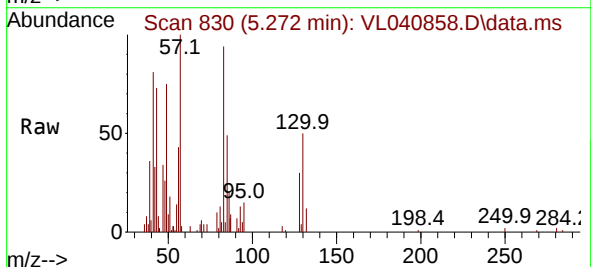
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-5

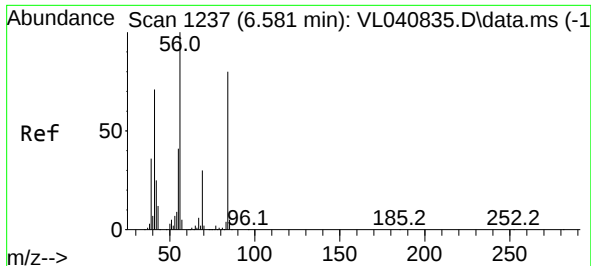
Tgt Ion: 57 Resp: 1317465
Ion Ratio Lower Upper
57 100
41 89.2 75.4 113.0
43 73.0 185.9 278.9#
56 52.8 42.6 63.8



#29
Chloroform
Concen: 0.128 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.016 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 83 Resp: 20768
Ion Ratio Lower Upper
83 100
85 48.3 51.4 77.0#

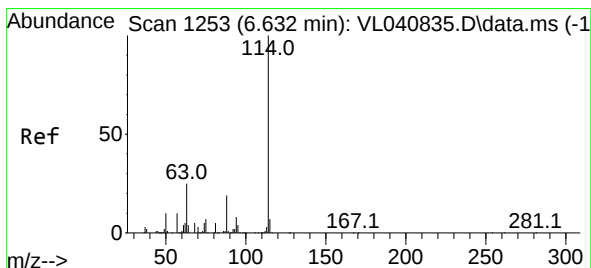
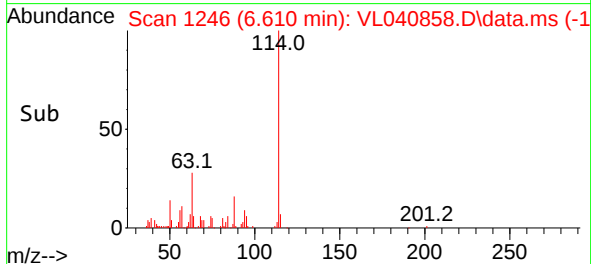
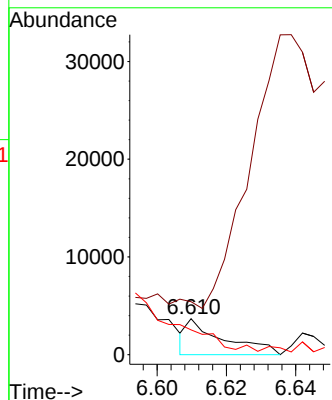
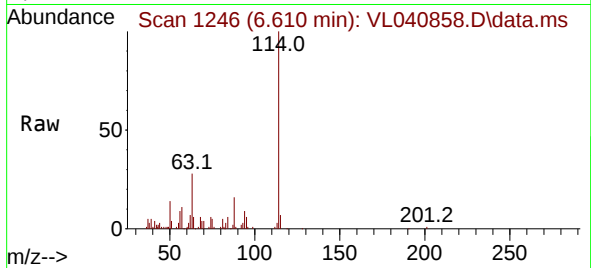




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.029 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

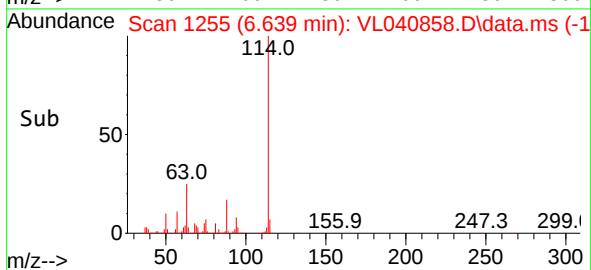
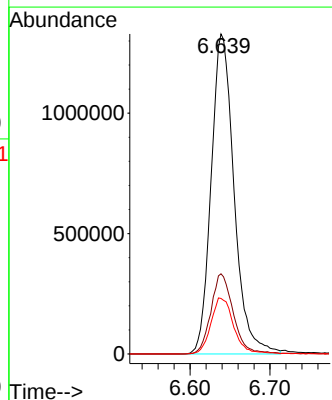
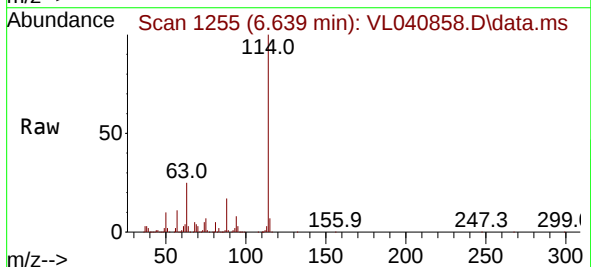
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-5

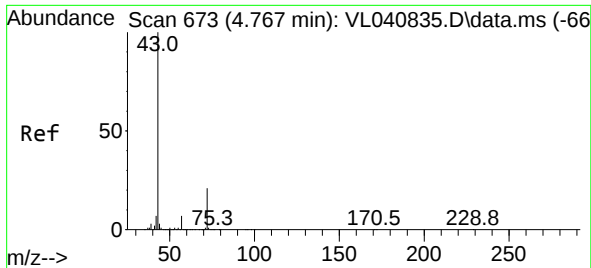
Tgt Ion: 84 Resp: 2705
Ion Ratio Lower Upper
84 100
56 0.0 109.3 163.9#
41 0.0 71.4 107.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.007 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 114 Resp: 2644681
Ion Ratio Lower Upper
114 100
63 24.7 20.9 31.3
88 17.6 14.3 21.5

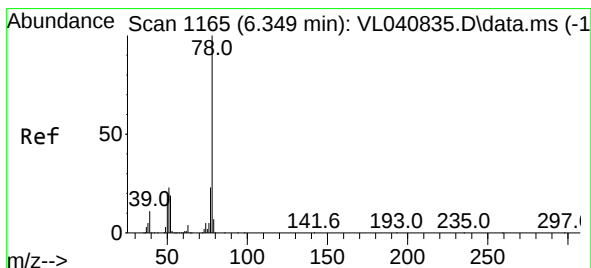
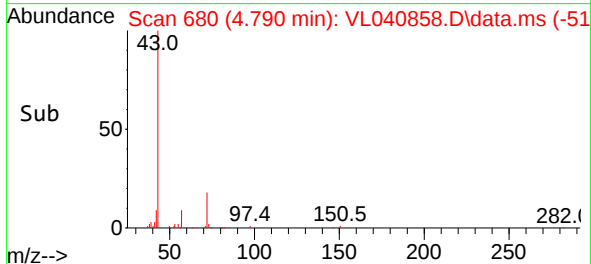
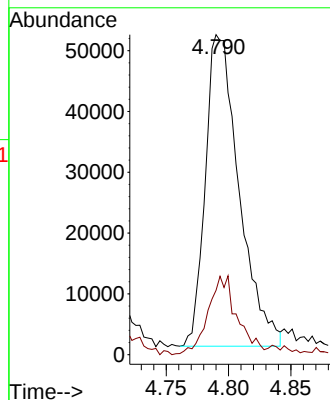
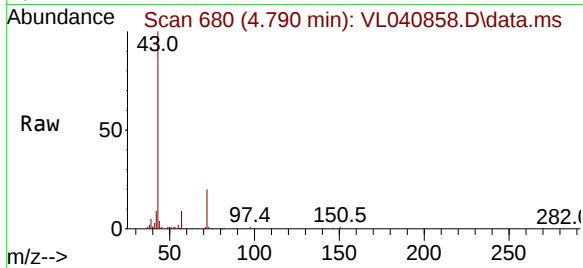




#34
2-Butanone
Concen: 0.716 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

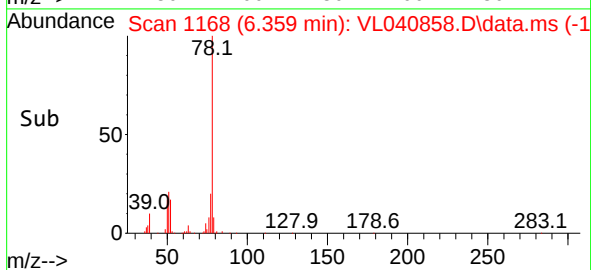
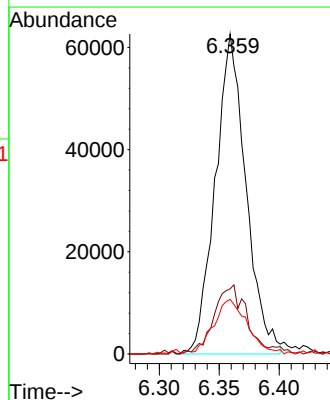
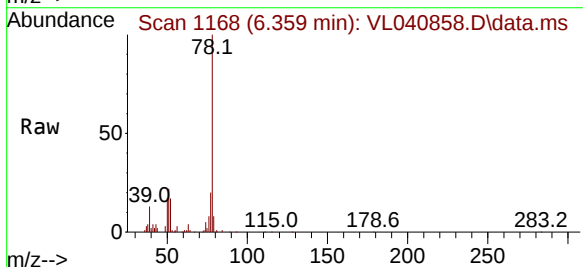
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-5

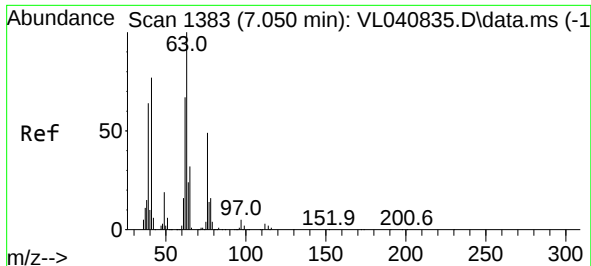
Tgt Ion: 43 Resp: 96512
Ion Ratio Lower Upper
43 100
72 23.8 17.2 25.8



#36
Benzene
Concen: 0.518 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 78 Resp: 111141
Ion Ratio Lower Upper
78 100
77 20.4 18.4 27.6
50 16.6 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.580 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.411 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-5

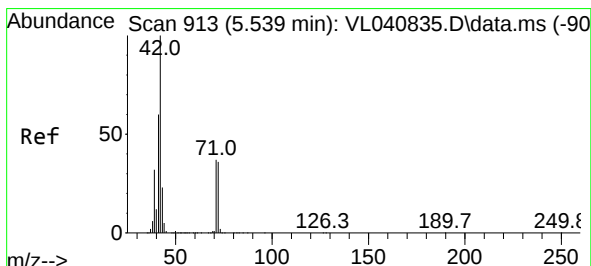
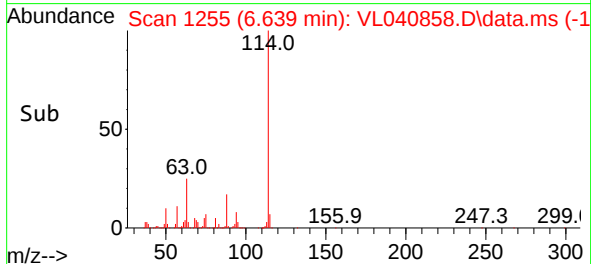
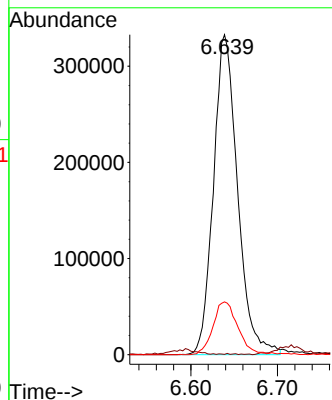
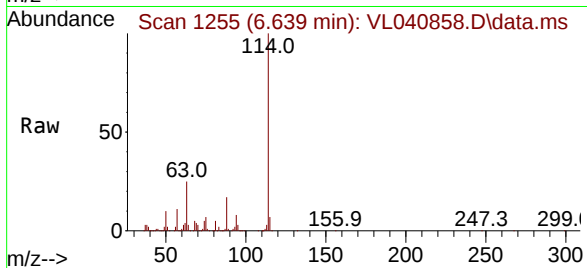
Tgt Ion: 63 Resp: 645051

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 16.4 53.9 80.9#



#41

Tetrahydrofuran

Concen: 5.918 ppbv

RT: 5.211 min Scan# 811

Delta R.T. -0.328 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

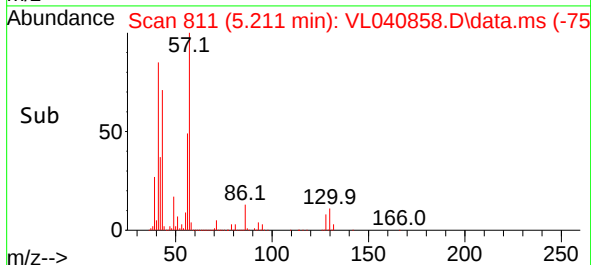
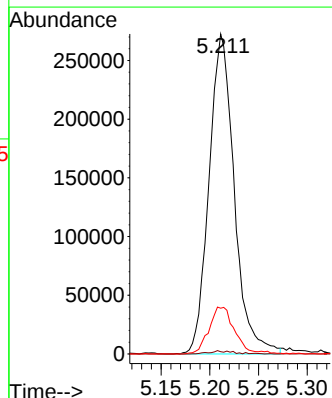
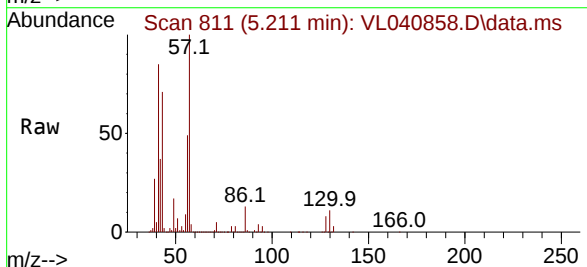
Tgt Ion: 42 Resp: 490902

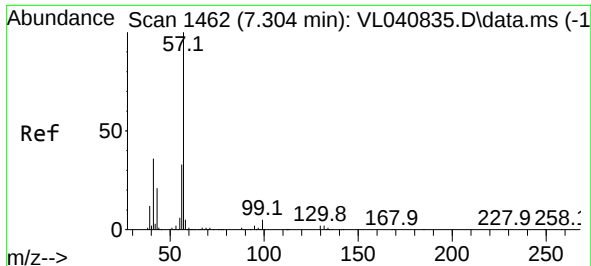
Ion Ratio Lower Upper

42 100

72 1.0 30.8 46.2#

71 15.2 30.0 45.0#





#44

2,2,4-Trimethylpentane

Concen: 0.183 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.007 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-5

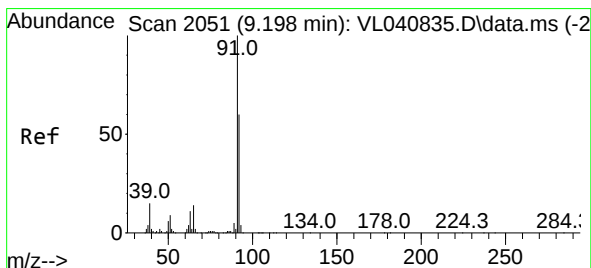
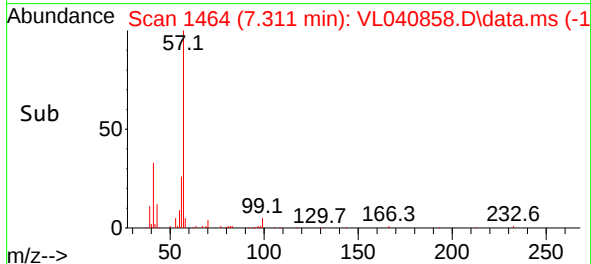
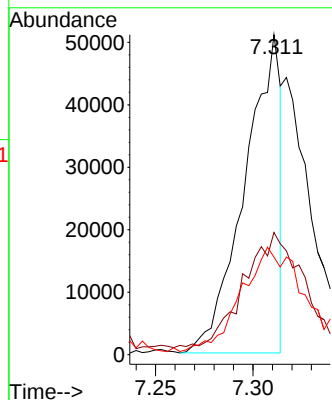
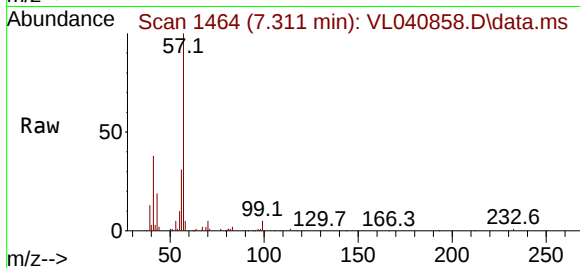
Tgt Ion: 57 Resp: 65304

Ion Ratio Lower Upper

57 100

41 69.3 29.0 43.6#

56 67.9 25.2 37.8#



#53

Toluene

Concen: 1.040 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. 0.000 min

Lab File: VL040858.D

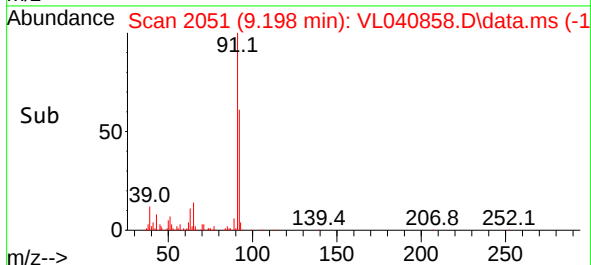
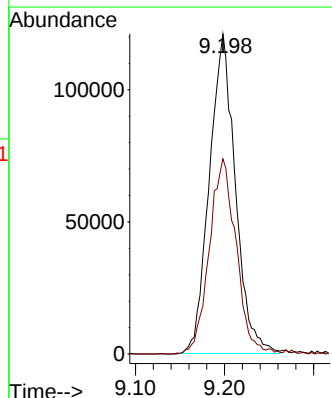
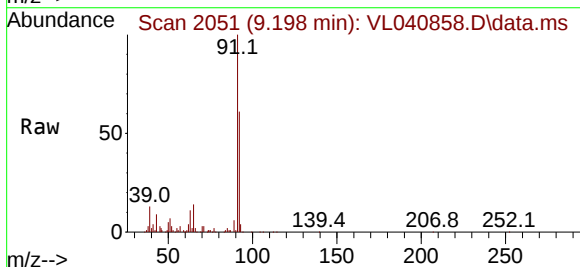
Acq: 14 Nov 2023 19:50

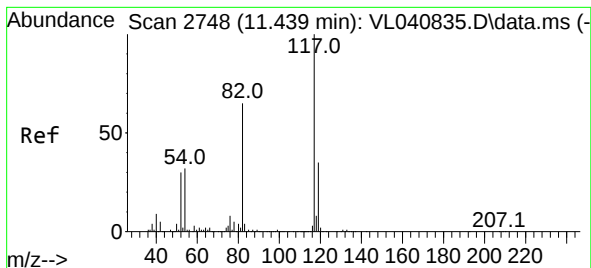
Tgt Ion: 91 Resp: 245741

Ion Ratio Lower Upper

91 100

92 62.8 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: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-5

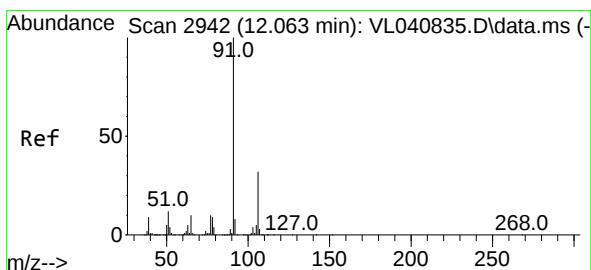
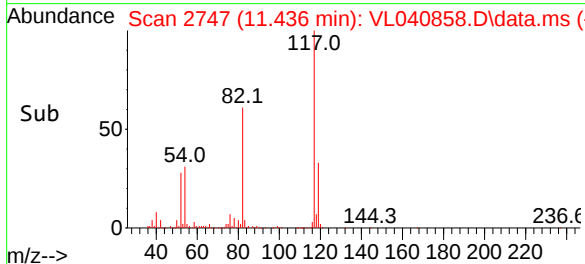
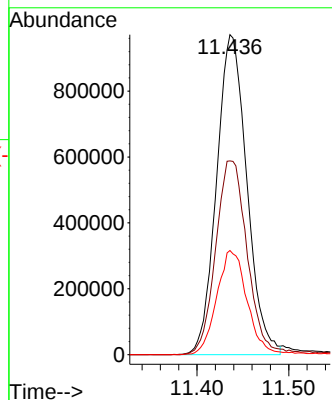
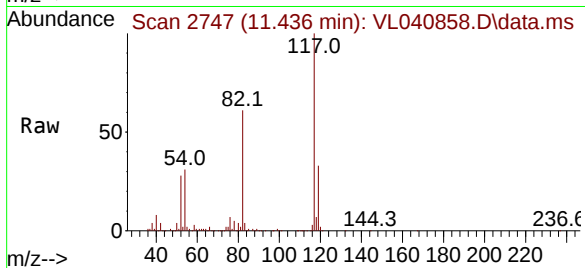
Tgt Ion:117 Resp: 2227278

Ion Ratio Lower Upper

117 100

82 64.9 50.6 75.8

119 33.5 23.3 34.9



#58

Ethyl Benzene

Concen: 0.094 ppbv

RT: 12.057 min Scan# 2940

Delta R.T. -0.006 min

Lab File: VL040858.D

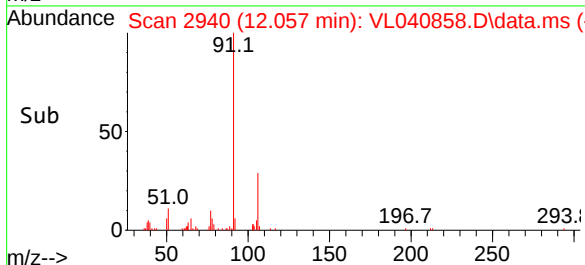
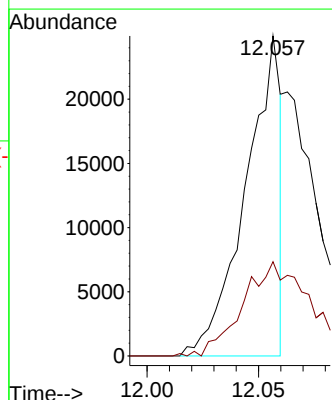
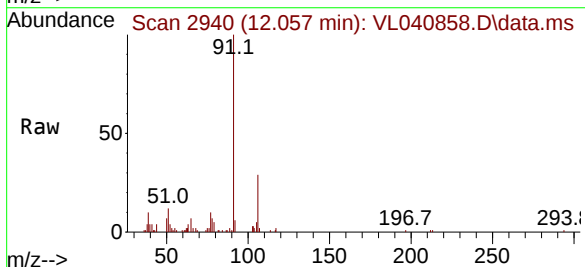
Acq: 14 Nov 2023 19:50

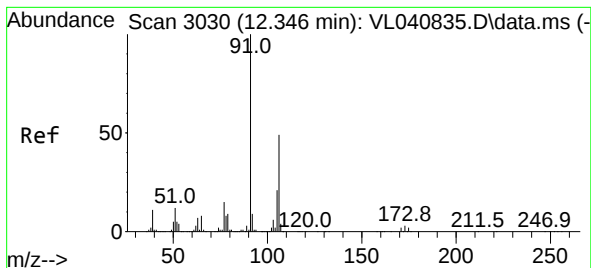
Tgt Ion: 91 Resp: 27342

Ion Ratio Lower Upper

91 100

106 28.7 25.2 37.8





#59

m/p-Xylene

Concen: 0.239 ppbv

RT: 12.327 min Scan# 3030

Delta R.T. -0.019 min

Lab File: VL040858.D

Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

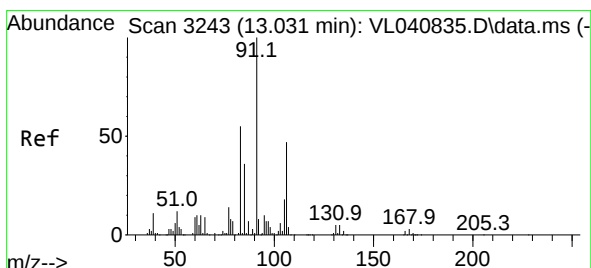
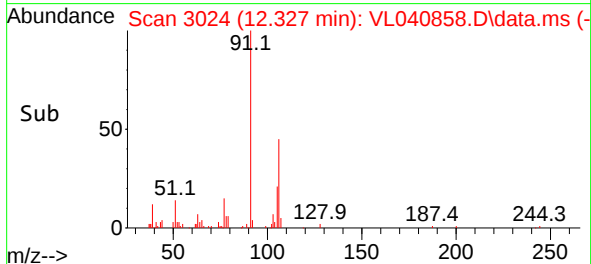
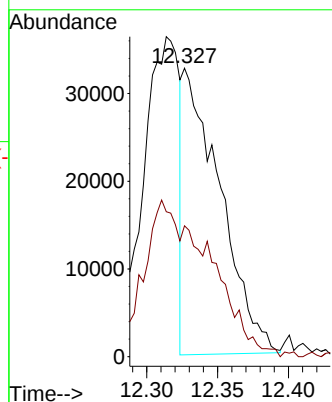
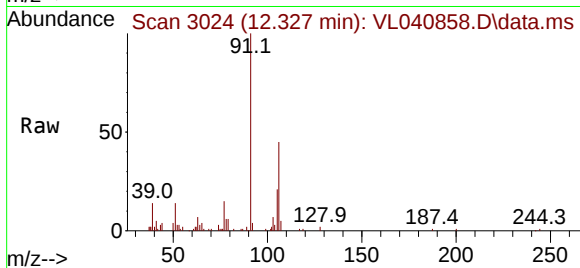
NT-IA-5

Tgt Ion: 91 Resp: 59217

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#



#60

o-Xylene

Concen: 0.205 ppbv

RT: 13.031 min Scan# 3243

Delta R.T. 0.000 min

Lab File: VL040858.D

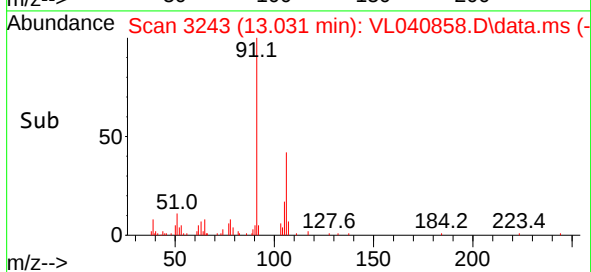
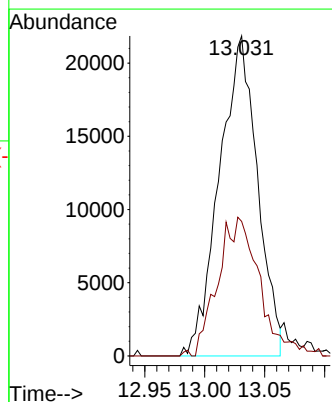
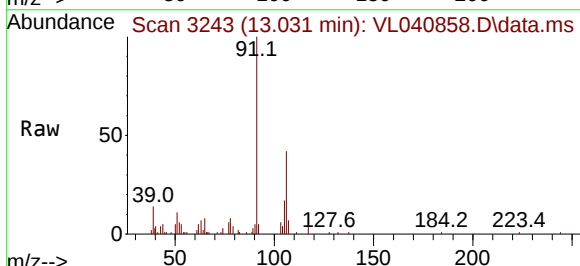
Acq: 14 Nov 2023 19:50

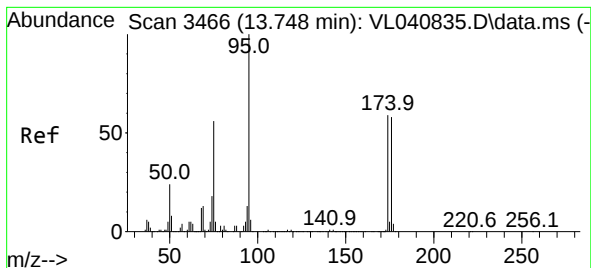
Tgt Ion: 91 Resp: 48233

Ion Ratio Lower Upper

91 100

106 48.2 22.9 68.5

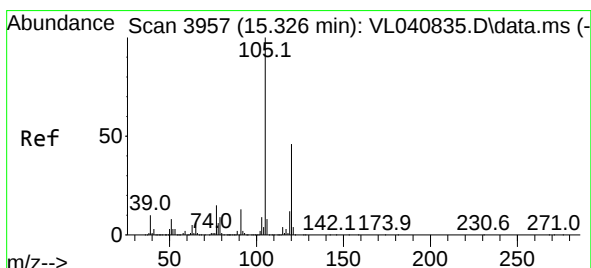
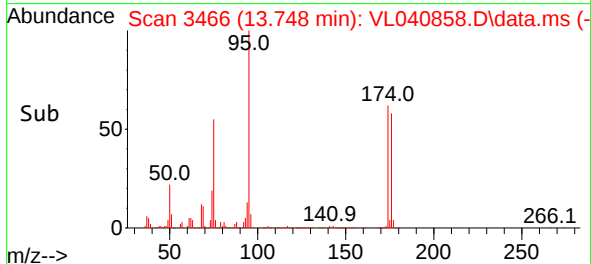
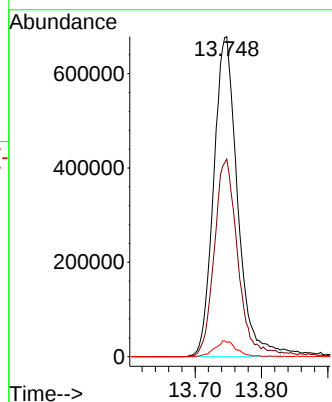
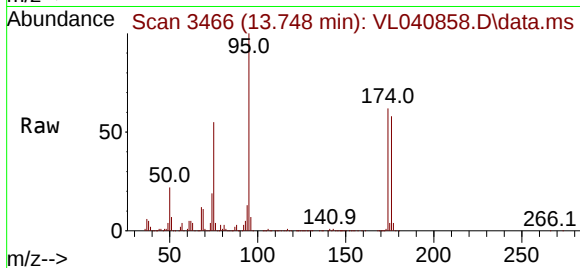




#68
1-Bromo-4-Fluorobenzene
Concen: 9.696 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. 0.000 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

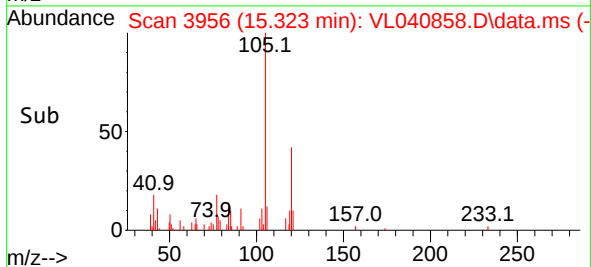
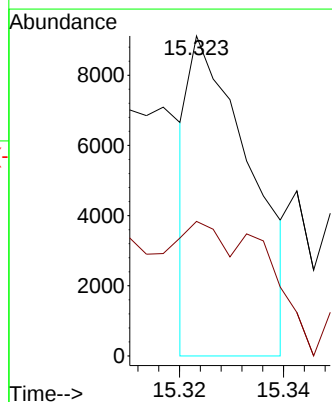
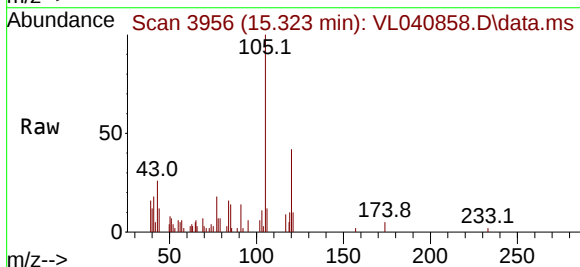
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-5

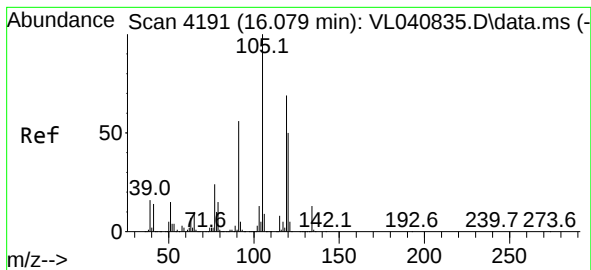
Tgt Ion: 95 Resp: 1690775
Ion Ratio Lower Upper
95 100
174 62.4 47.5 71.3
175 4.6 3.6 5.4



#73
1,3,5-Trimethylbenzene
Concen: 0.032 ppbv
RT: 15.323 min Scan# 3956
Delta R.T. -0.003 min
Lab File: VL040858.D
Acq: 14 Nov 2023 19:50

Tgt Ion: 105 Resp: 7387
Ion Ratio Lower Upper
105 100
120 35.6 36.8 55.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.118 ppbv

RT: 16.072 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL040858.D

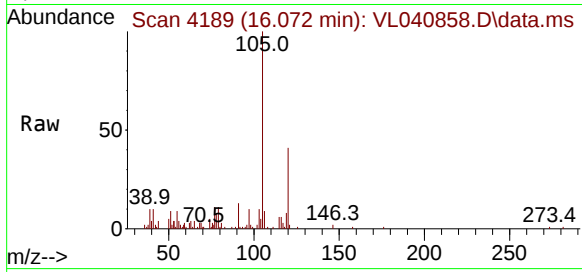
Acq: 14 Nov 2023 19:50

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-5



Tgt Ion:105 Resp: 30287

Ion Ratio Lower Upper

105 100

120 43.7 40.2 60.2

91 14.5 45.7 68.5#

77 10.0 19.2 28.8#

