

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040862.D
 Acq On : 14 Nov 2023 22:29
 Operator : SY/MD
 Sample : 05275-06DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

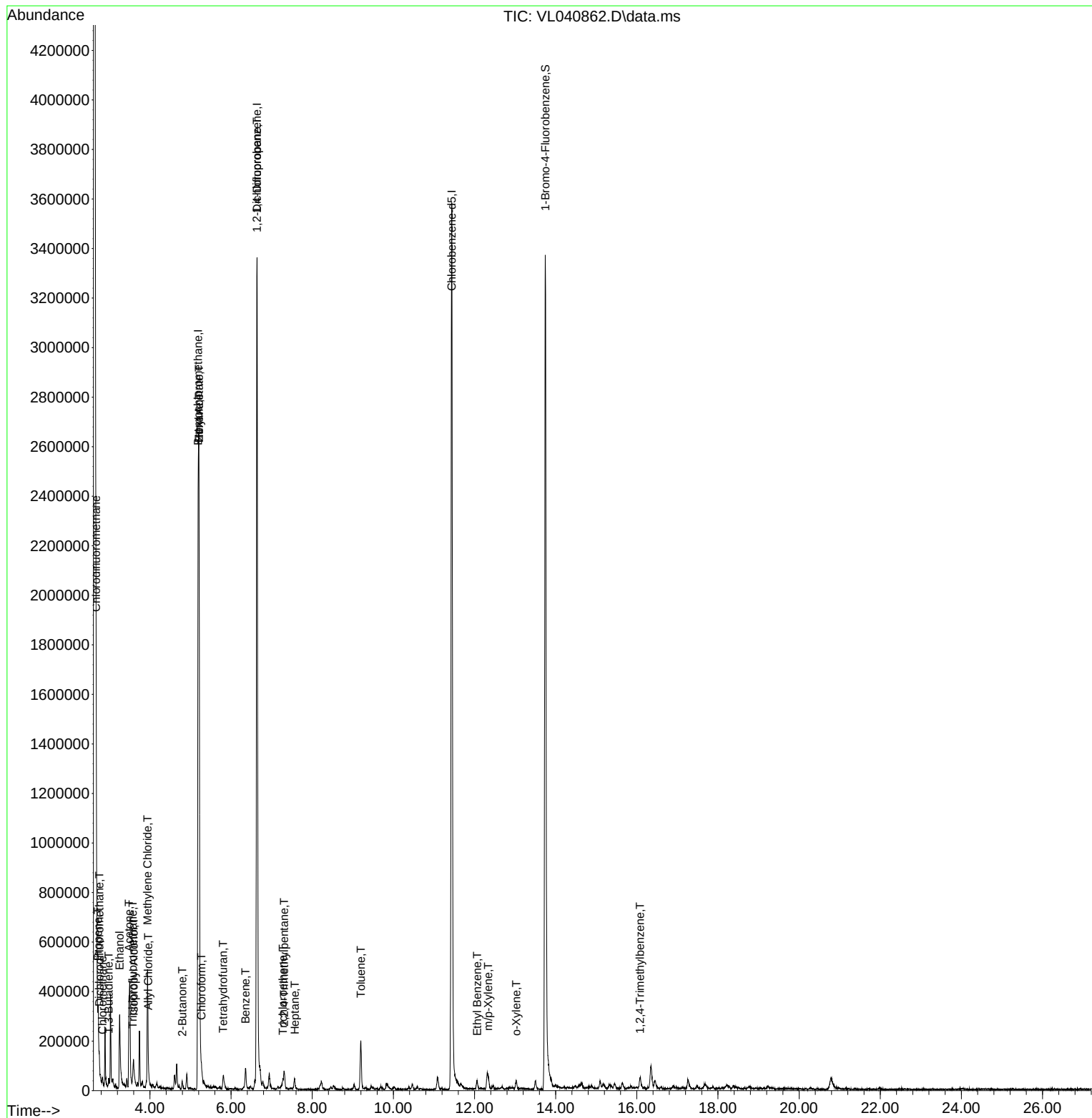
Quant Time: Nov 16 04:53:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

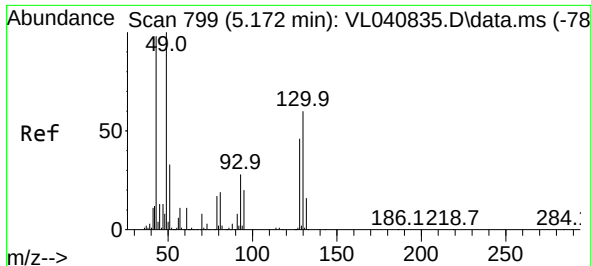
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.189	49	986516	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2611987	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2419715	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1786996	9.433	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	47653	0.238	ppbv	94
3) Chlorodifluoromethane	2.674	51	166978	1.060	ppbv #	64
4) Chloromethane	2.832	50	15411	0.272	ppbv #	76
9) Propene	2.722	41	27968	0.527	ppbv #	77
10) Heptane	7.568	43	7218	0.055	ppbv #	1
11) Trichlorofluoromethane	3.578	101	16972	0.110	ppbv	95
13) Ethanol	3.253	45	308375	29.918	ppbv #	100
15) Acetone	3.484	43	460617	4.384	ppbv	91
16) 1,3-Butadiene	2.983	39	5991	0.113	ppbv #	11
19) Isopropyl Alcohol	3.597	45	123490	1.953	ppbv #	97
20) Methylene Chloride	3.941	84	146964	3.389	ppbv	97
21) Allyl Chloride	3.960	41	4265	0.063	ppbv #	1
25) Ethyl Acetate	5.211	43	601968	2.767	ppbv #	77
26) Hexane	5.211	57	851366	8.842	ppbv #	40
29) Chloroform	5.272	83	6495	0.040	ppbv	88
34) 2-Butanone	4.796	43	40875	0.307	ppbv	93
36) Benzene	6.356	78	61273	0.289	ppbv	97
38) Trichloroethene	7.275	130	7557	0.092	ppbv #	73
39) 1,2-Dichloropropane	6.635	63	630208	7.498	ppbv #	23
41) Tetrahydrofuran	5.803	42	3655	0.045	ppbv #	40
44) 2,2,4-Trimethylpentane	7.307	57	58286	0.166	ppbv #	83
53) Toluene	9.195	91	134138	0.575	ppbv	96
58) Ethyl Benzene	12.063	91	14245	0.045	ppbv	100
59) m/p-Xylene	12.336	91	11433	0.043	ppbv #	32
60) o-Xylene	13.027	91	18732	0.073	ppbv	72
74) 1,2,4-Trimethylbenzene	16.079	105	9073	0.033	ppbv #	65

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

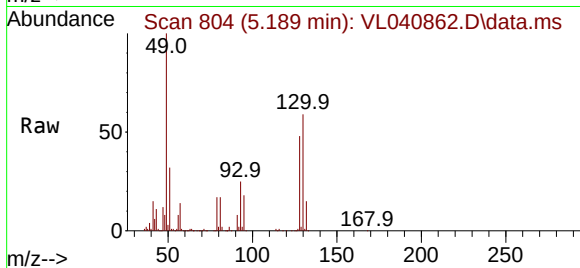
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
Response via : Initial Calibration



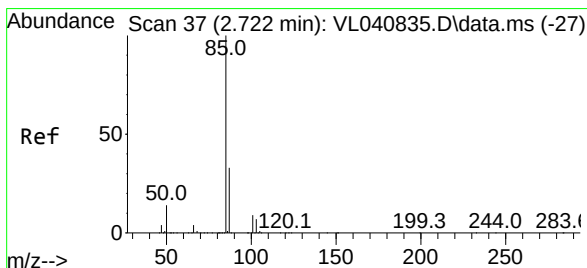
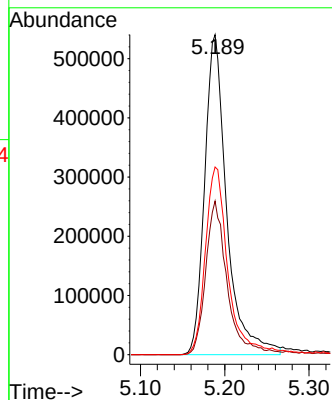
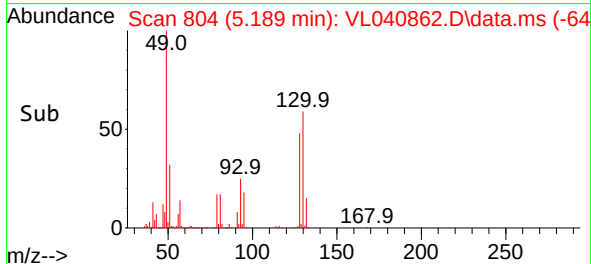


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. 0.017 min
 Lab File: VL040862.D
 Acq: 14 Nov 2023 22:29

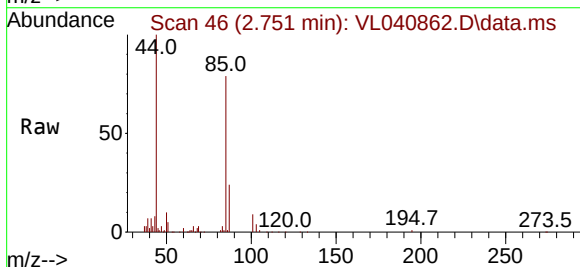
Instrument :
 MSVOA_L
 ClientSampleId :



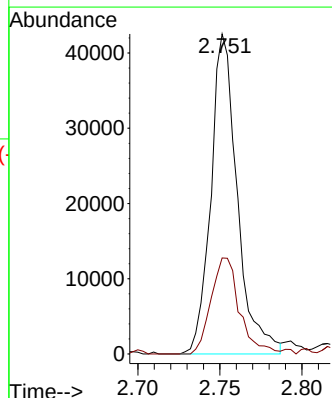
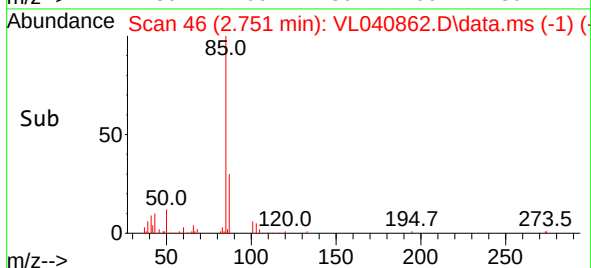
Tgt Ion: 49 Resp: 986516
 Ion Ratio Lower Upper
 49 100
 128 48.2 23.8 71.2
 130 60.9 30.9 92.8

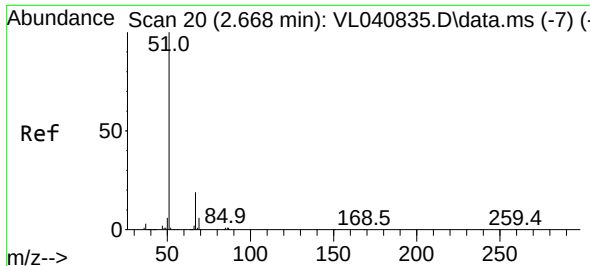


#2
 Dichlorodifluoromethane
 Concen: 0.238 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.029 min
 Lab File: VL040862.D
 Acq: 14 Nov 2023 22:29



Tgt Ion: 85 Resp: 47653
 Ion Ratio Lower Upper
 85 100
 87 30.0 26.7 40.1

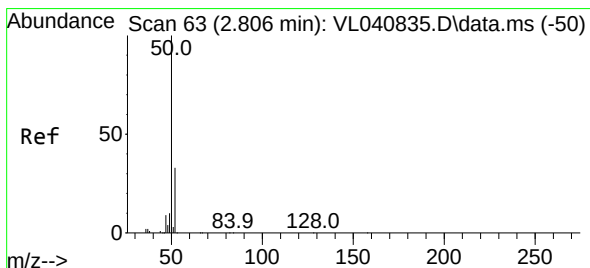
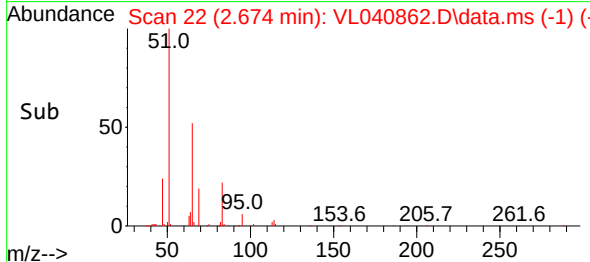
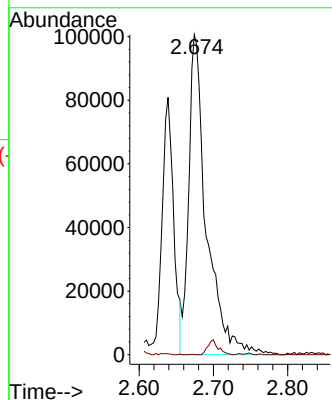
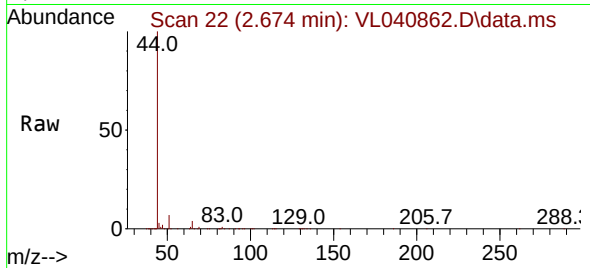




#3
Chlorodifluoromethane
Concen: 1.060 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

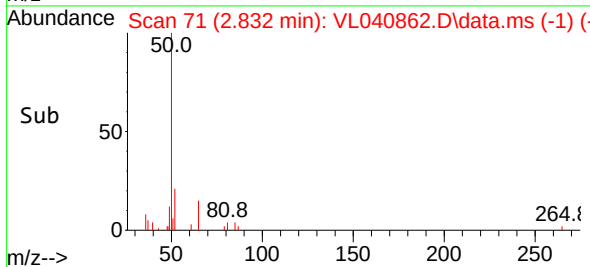
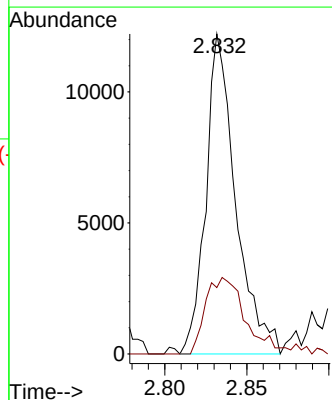
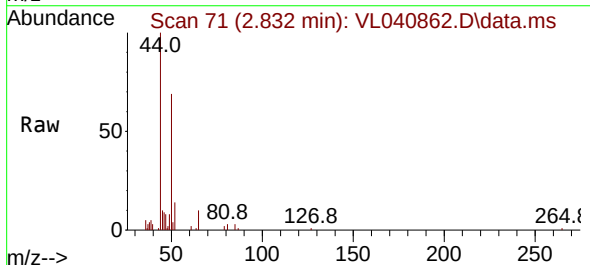
Instrument :
MSVOA_L
ClientSampleId :

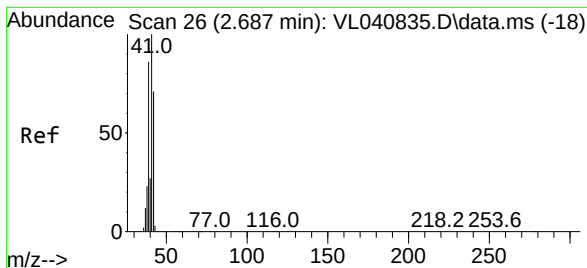
Tgt Ion: 51 Resp: 166978
Ion Ratio Lower Upper
51 100
67 2.7 15.0 22.4#



#4
Chloromethane
Concen: 0.272 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 50 Resp: 15411
Ion Ratio Lower Upper
50 100
52 19.6 26.5 39.7#





#9

Propene

Concen: 0.527 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.035 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

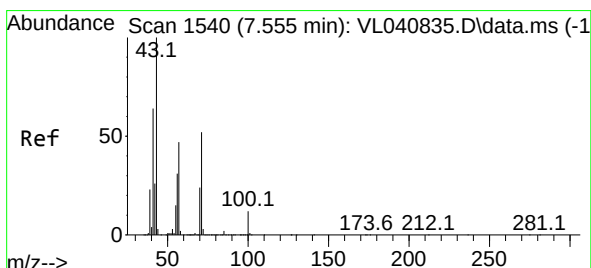
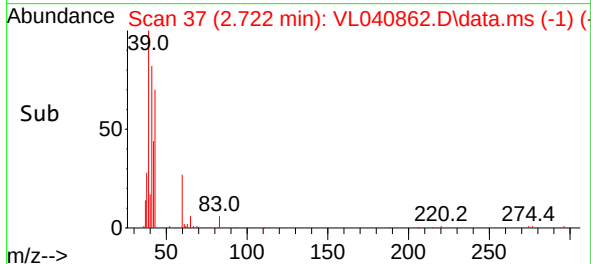
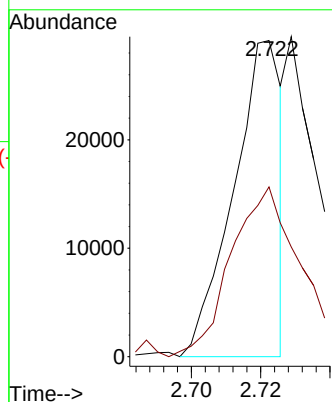
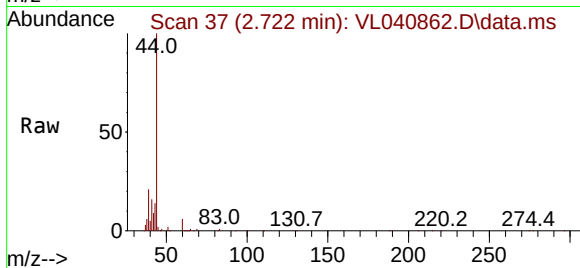
ClientSampleId :

Tgt Ion: 41 Resp: 27968

Ion Ratio Lower Upper

41 100

42 89.4 56.5 84.7#



#10

Heptane

Concen: 0.055 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. 0.013 min

Lab File: VL040862.D

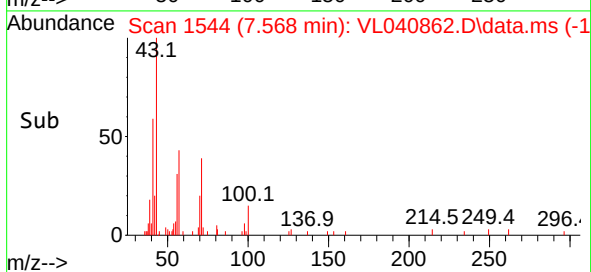
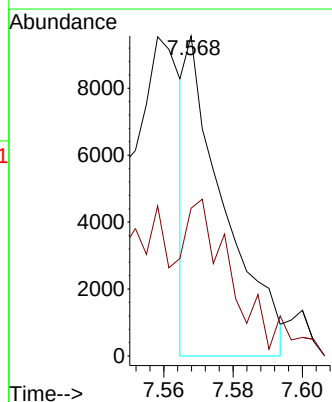
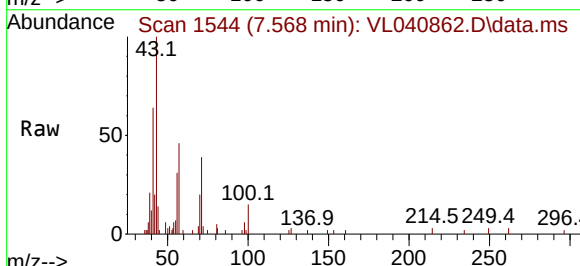
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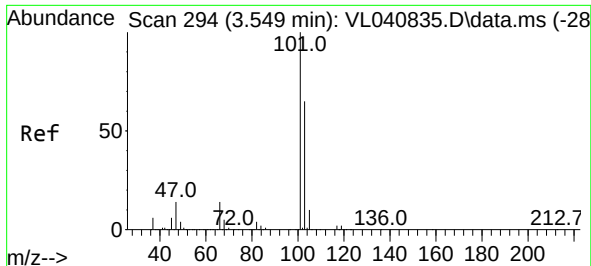
Tgt Ion: 43 Resp: 7218

Ion Ratio Lower Upper

43 100

57 135.1 39.4 59.0#

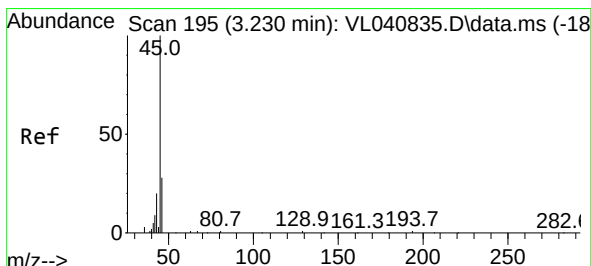
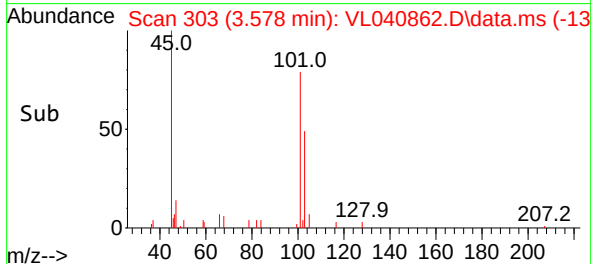
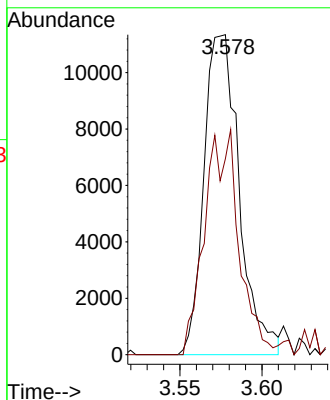
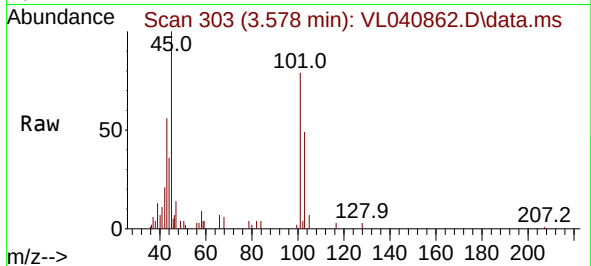




#11
Trichlorofluoromethane
Concen: 0.110 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.029 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

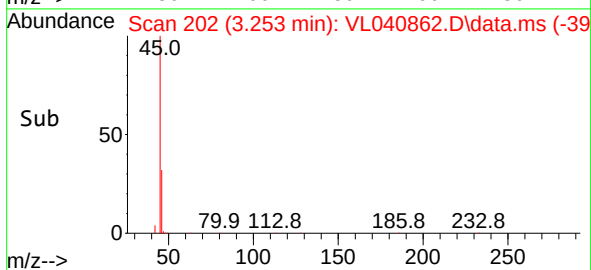
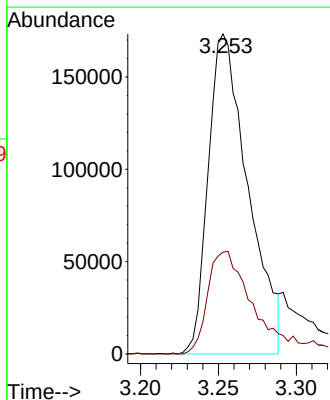
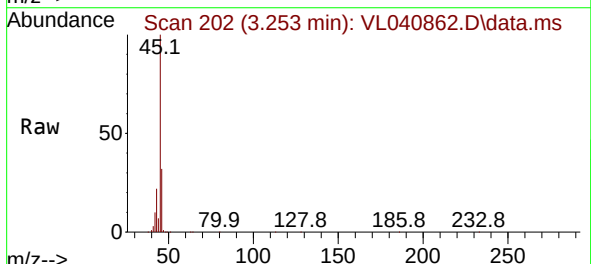
Instrument :
MSVOA_L
ClientSampleId :

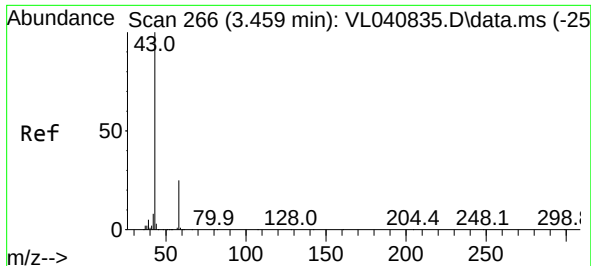
Tgt Ion:101 Resp: 16972
Ion Ratio Lower Upper
101 100
103 61.3 51.8 77.8



#13
Ethanol
Concen: 29.918 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.023 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 45 Resp: 308375
Ion Ratio Lower Upper
45 100
46 39.7 0.0 0.0#

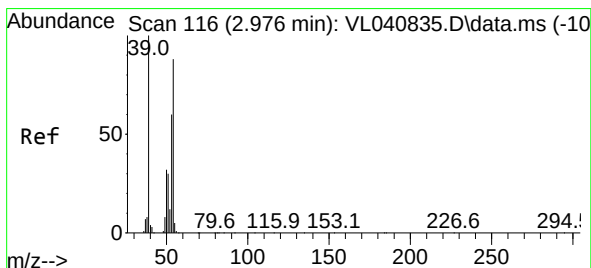
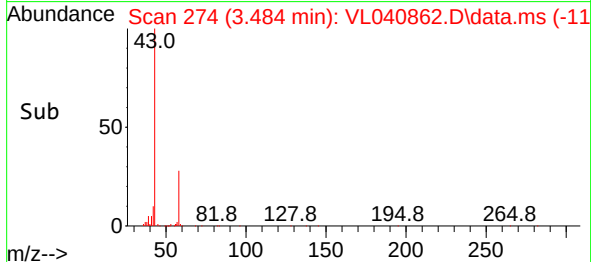
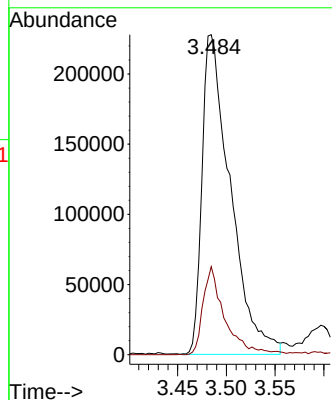
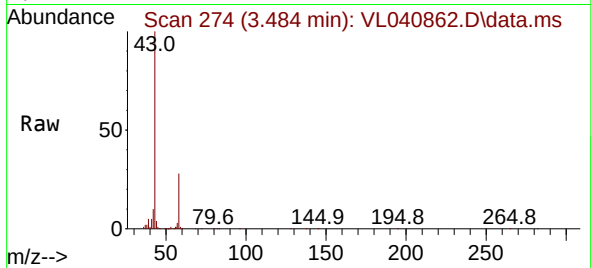




#15
Acetone
Concen: 4.384 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

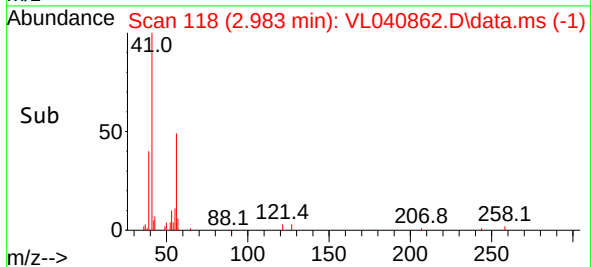
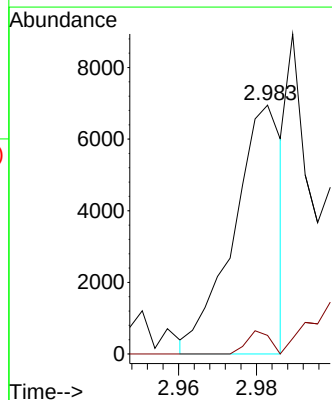
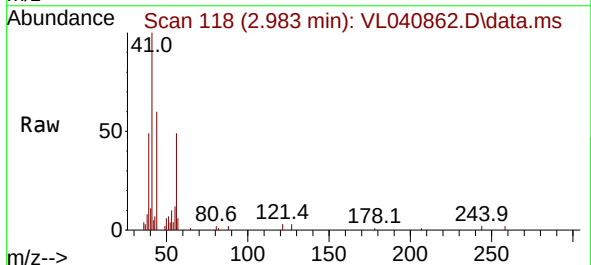
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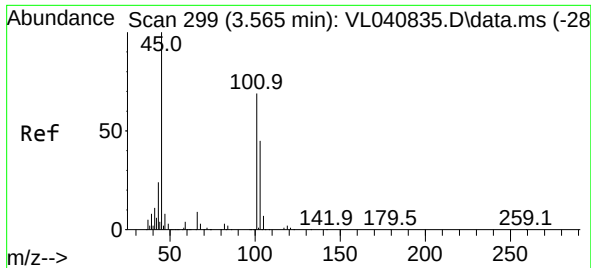
Tgt Ion: 43 Resp: 460617
Ion Ratio Lower Upper
43 100
58 21.6 20.9 31.3



#16
1,3-Butadiene
Concen: 0.113 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.006 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 39 Resp: 5991
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#19

Isopropyl Alcohol

Concen: 1.953 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.032 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

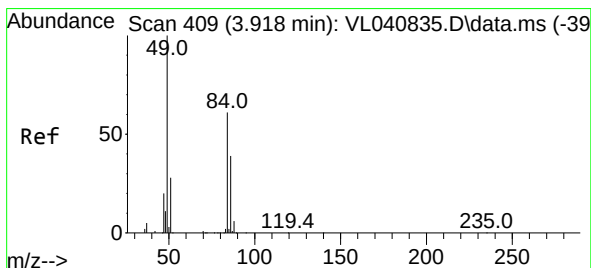
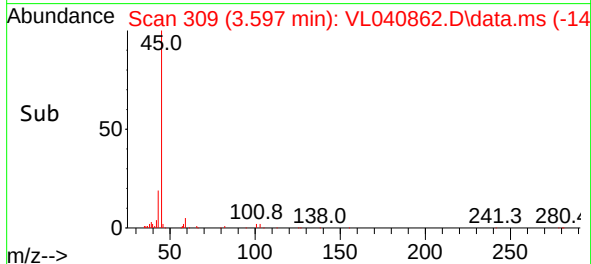
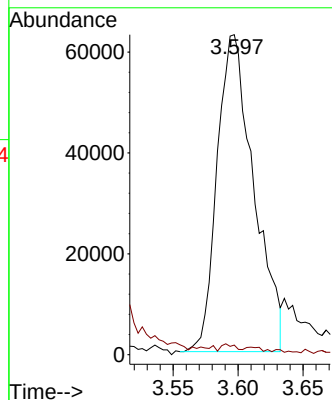
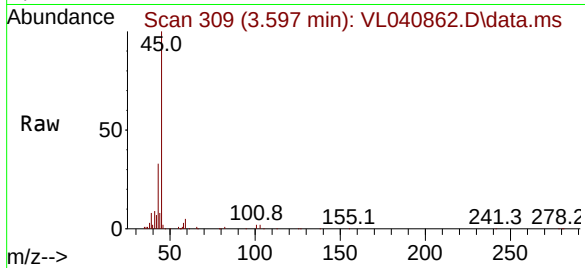
ClientSampleId :

Tgt Ion: 45 Resp: 123490

Ion Ratio Lower Upper

45 100

58 2.9 1.6 2.4#



#20

Methylene Chloride

Concen: 3.389 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.023 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Tgt Ion: 84 Resp: 146964

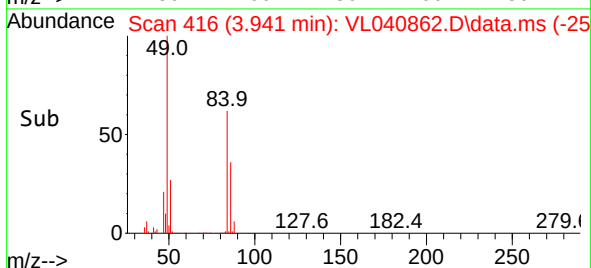
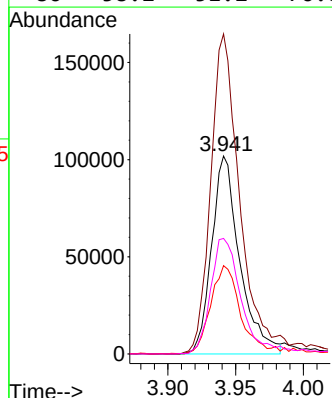
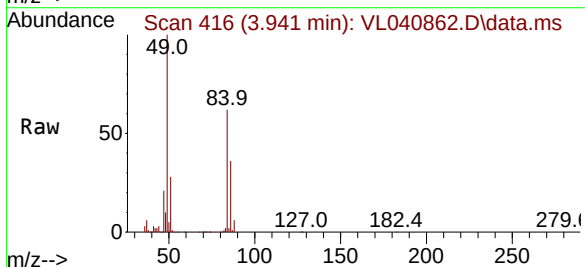
Ion Ratio Lower Upper

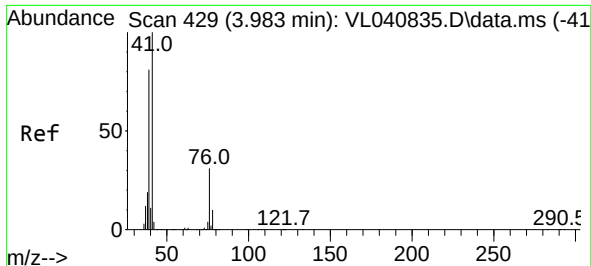
84 100

49 161.5 131.0 196.4

51 44.4 36.9 55.3

86 58.2 51.2 76.8





#21

Allyl Chloride

Concen: 0.063 ppbv

RT: 3.960 min Scan# 41

Delta R.T. -0.022 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

ClientSampleId :

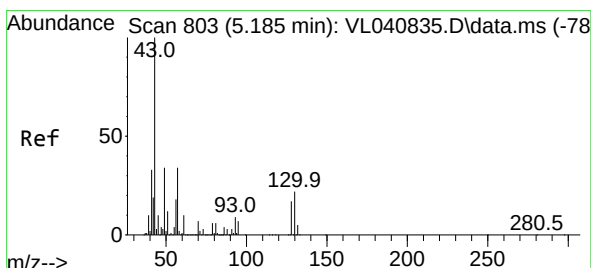
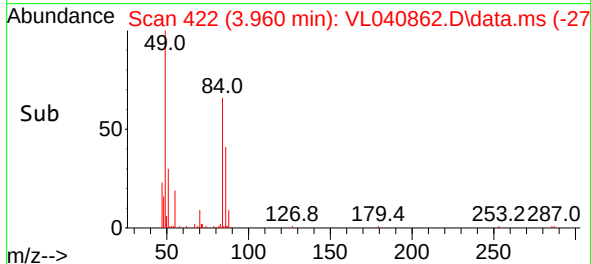
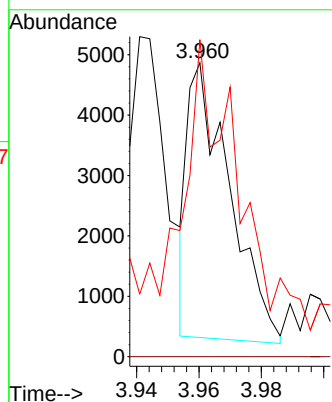
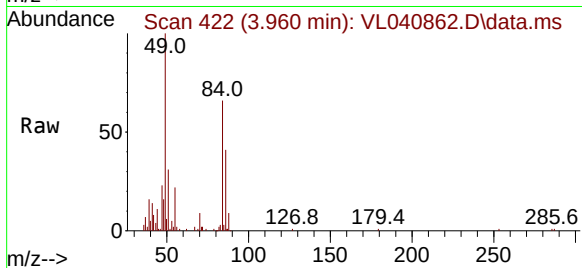
Tgt Ion: 41 Resp: 4265

Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

39 232.3 68.1 102.1#



#25

Ethyl Acetate

Concen: 2.767 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.026 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Tgt Ion: 43 Resp: 601968

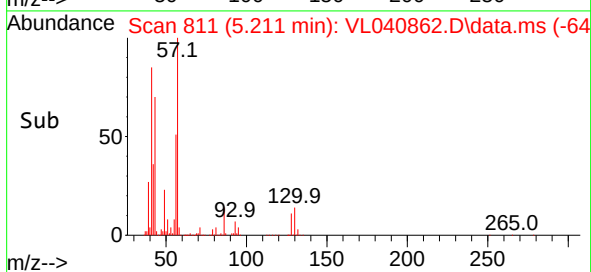
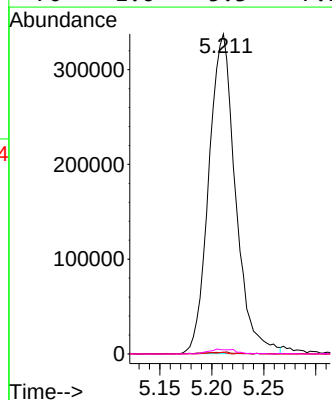
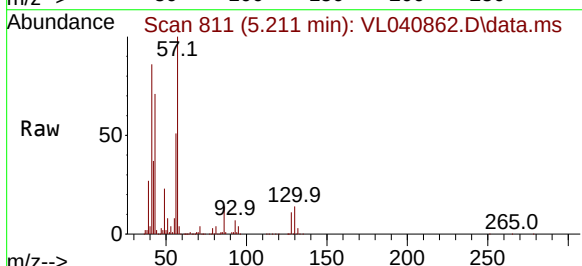
Ion Ratio Lower Upper

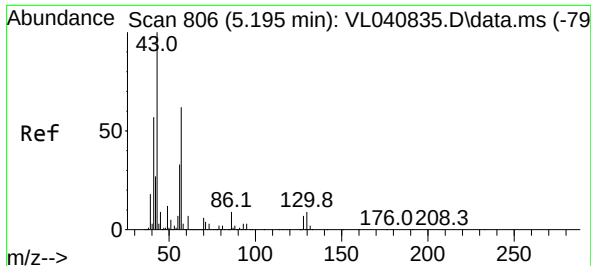
43 100

45 0.7 8.1 12.1#

61 0.4 7.8 11.6#

70 1.6 5.3 7.9#

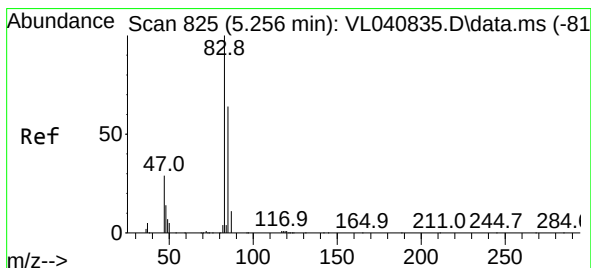
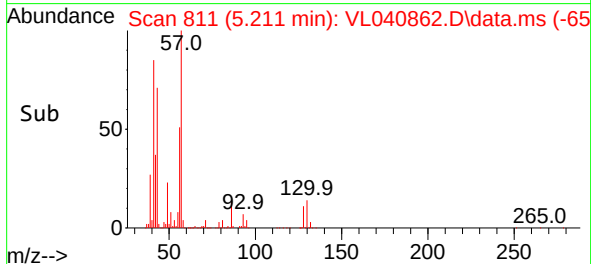
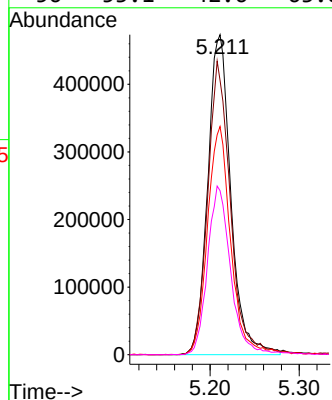
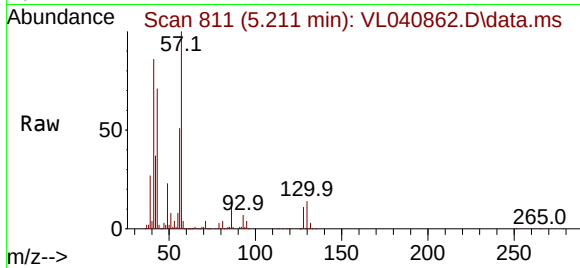




#26
Hexane
Concen: 8.842 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

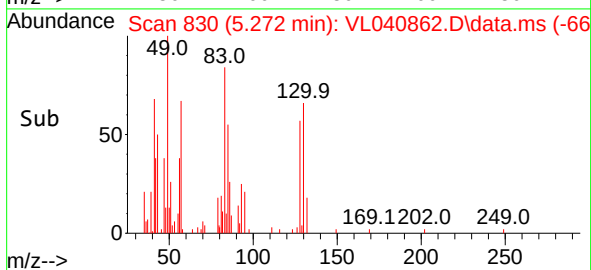
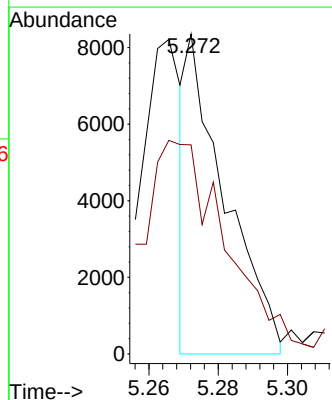
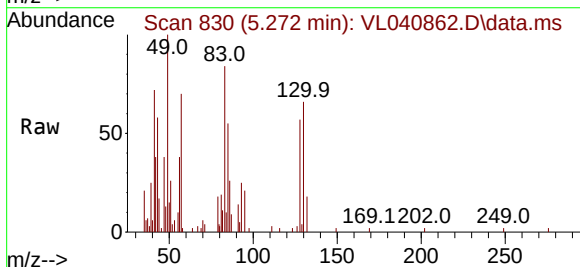
Instrument :
MSVOA_L
ClientSampleId :

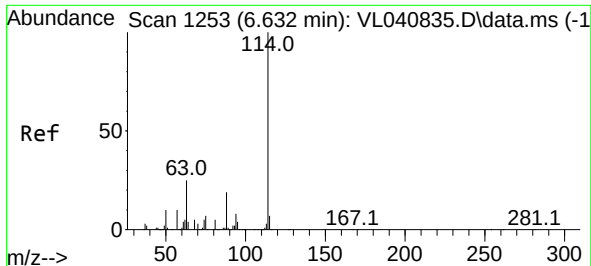
Tgt Ion: 57 Resp: 851366
Ion Ratio Lower Upper
57 100
41 90.9 75.4 113.0
43 72.4 185.9 278.9#
56 53.1 42.6 63.8



#29
Chloroform
Concen: 0.040 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.016 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 83 Resp: 6495
Ion Ratio Lower Upper
83 100
85 55.1 51.4 77.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

ClientSampleId :

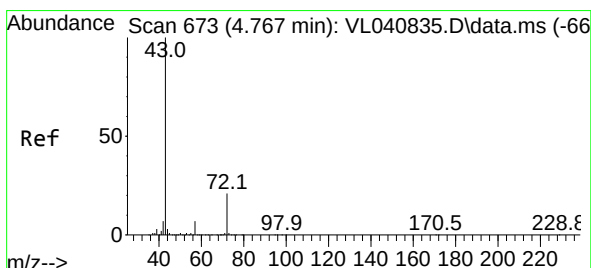
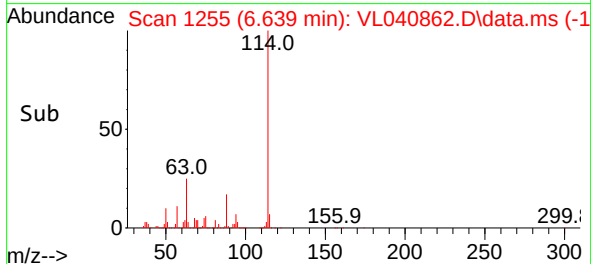
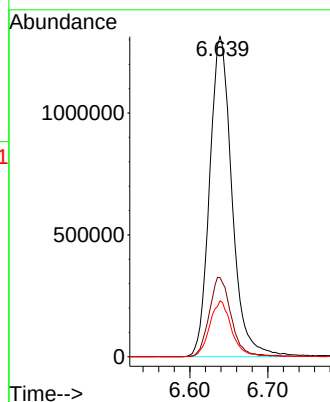
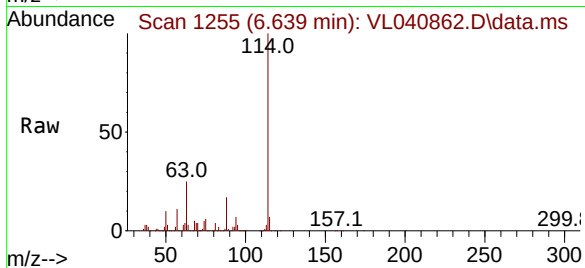
Tgt Ion:114 Resp: 2611987

Ion Ratio Lower Upper

114 100

63 24.7 20.9 31.3

88 17.2 14.3 21.5



#34

2-Butanone

Concen: 0.307 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.029 min

Lab File: VL040862.D

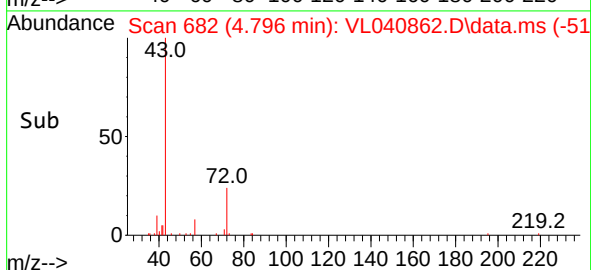
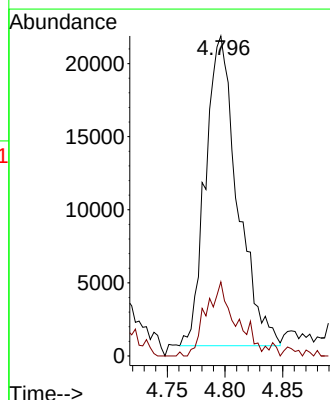
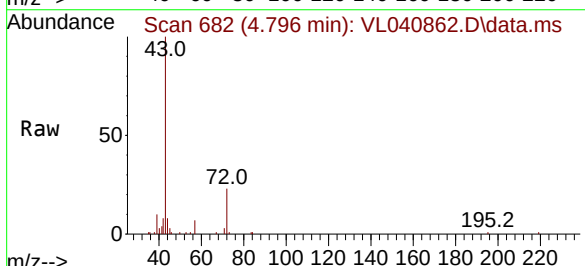
Acq: 14 Nov 2023 22:29

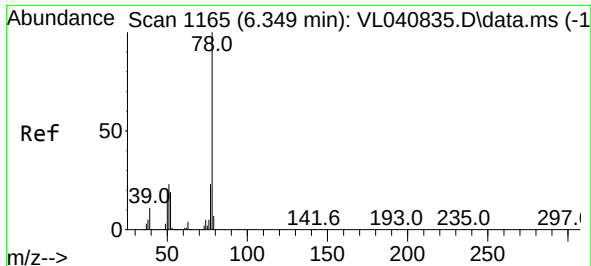
Tgt Ion: 43 Resp: 40875

Ion Ratio Lower Upper

43 100

72 24.7 17.2 25.8

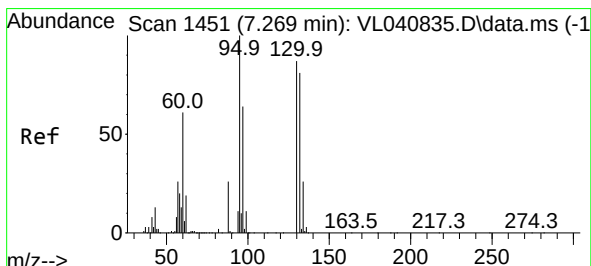
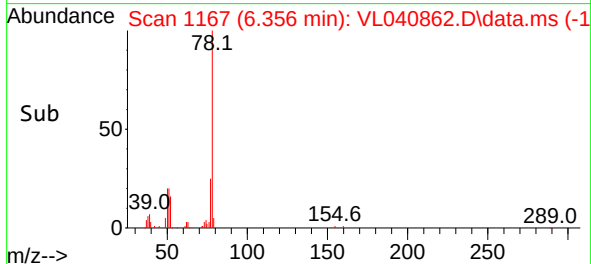
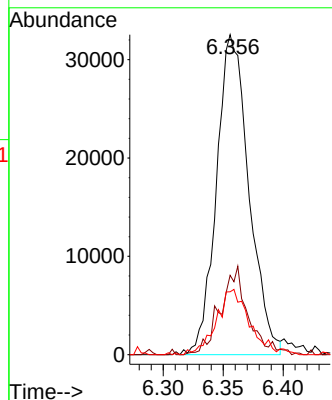
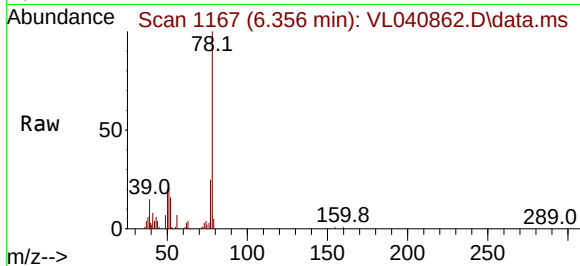




#36
Benzene
Concen: 0.289 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. 0.006 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

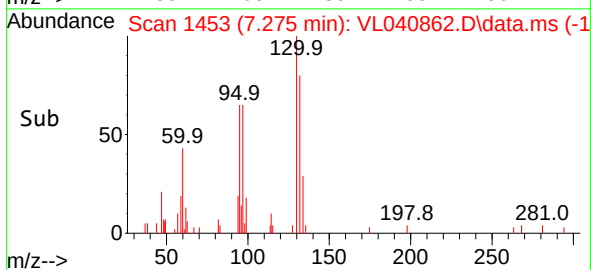
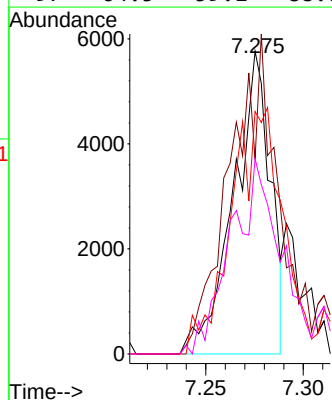
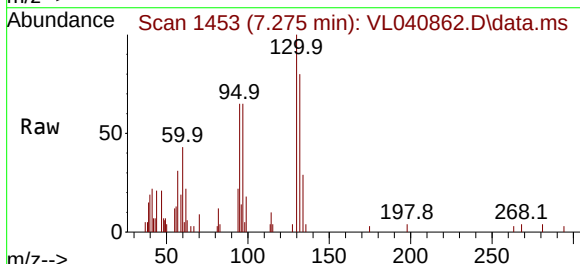
Instrument :
MSVOA_L
ClientSampleId :

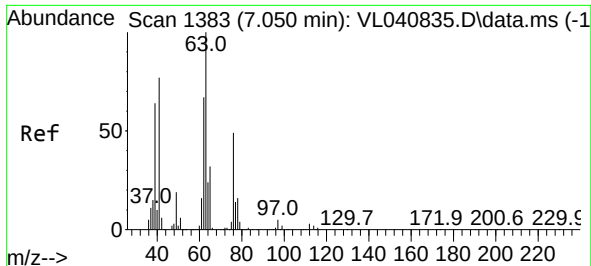
Tgt Ion: 78 Resp: 61273
Ion Ratio Lower Upper
78 100
77 24.8 18.4 27.6
50 19.7 16.2 24.2



#38
Trichloroethene
Concen: 0.092 ppbv
RT: 7.275 min Scan# 1453
Delta R.T. 0.006 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 130 Resp: 7557
Ion Ratio Lower Upper
130 100
95 64.5 92.4 138.6#
132 80.1 75.1 112.7
97 64.5 59.1 88.7





#39

1,2-Dichloropropane

Concen: 7.498 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.415 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

ClientSampleId :

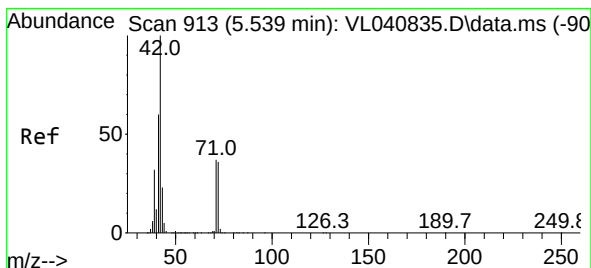
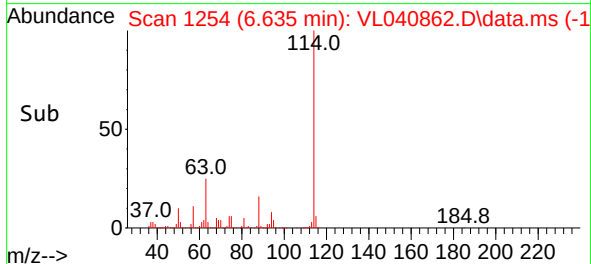
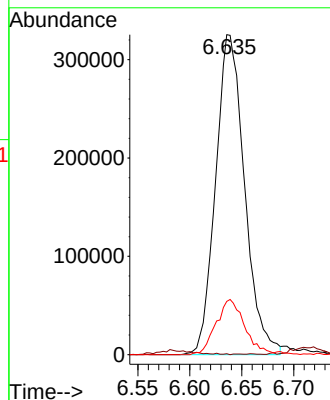
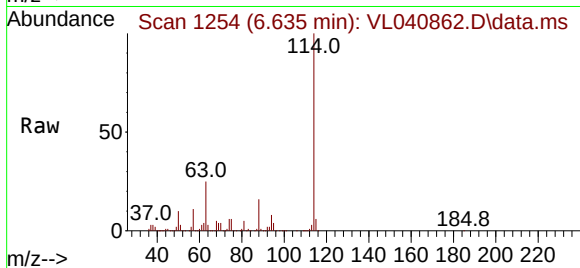
Tgt Ion: 63 Resp: 630208

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 16.7 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.045 ppbv

RT: 5.803 min Scan# 995

Delta R.T. 0.264 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

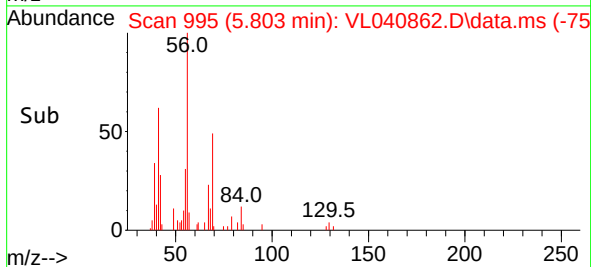
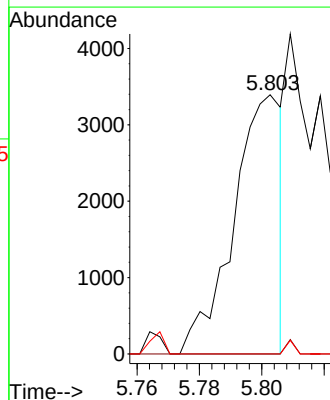
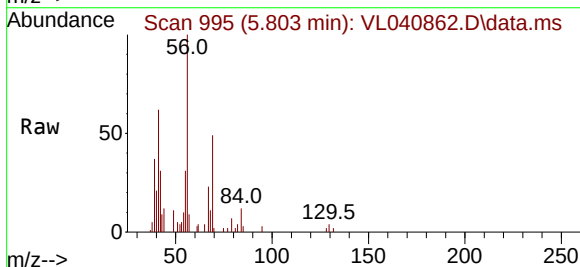
Tgt Ion: 42 Resp: 3655

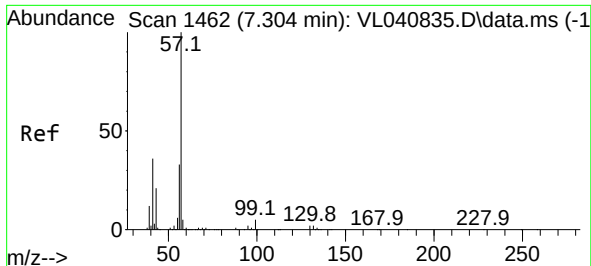
Ion Ratio Lower Upper

42 100

72 3.4 30.8 46.2#

71 0.0 30.0 45.0#

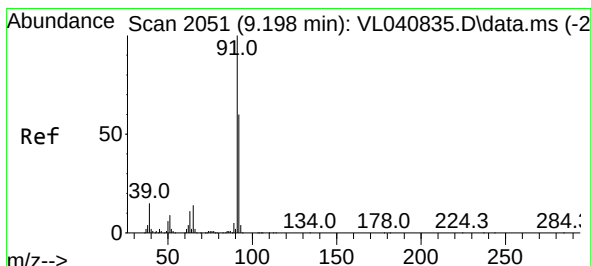
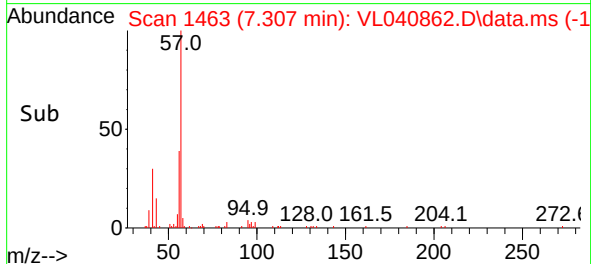
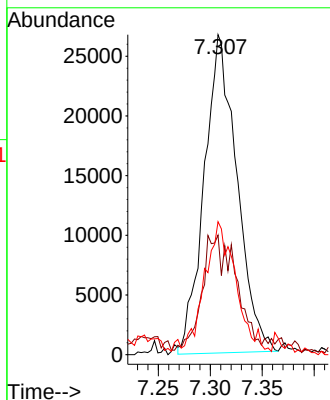
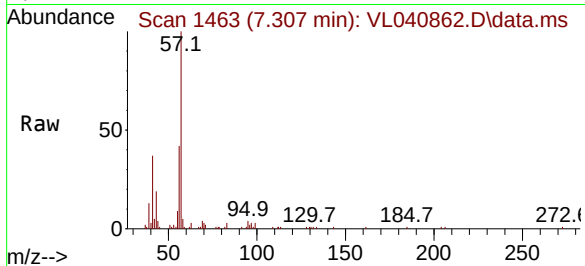




#44
2,2,4-Trimethylpentane
Concen: 0.166 ppbv
RT: 7.307 min Scan# 1462
Delta R.T. 0.003 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

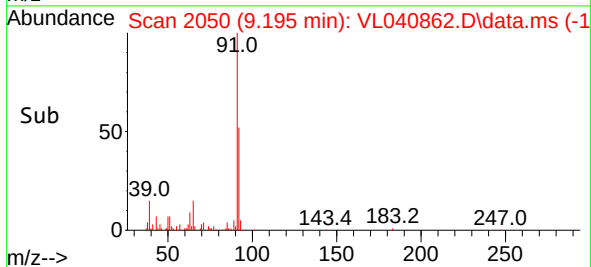
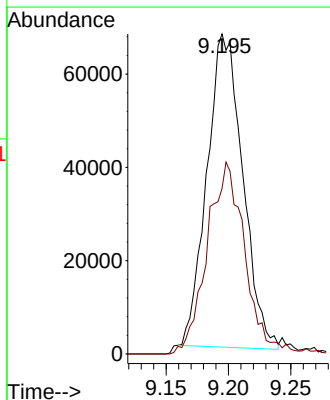
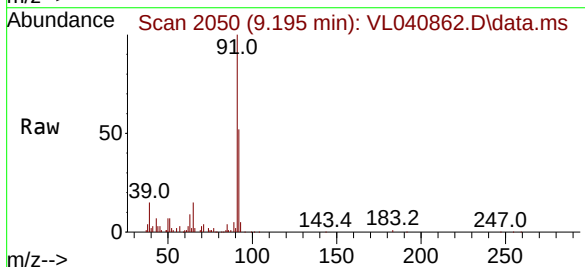
Instrument :
MSVOA_L
ClientSampleId :

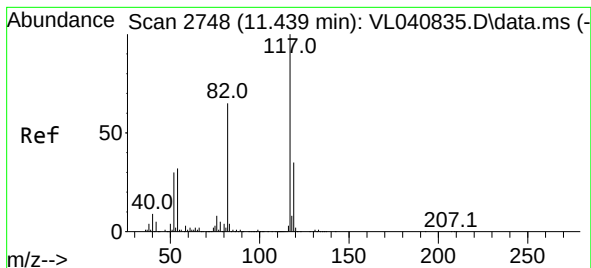
Tgt Ion: 57 Resp: 58286
Ion Ratio Lower Upper
57 100
41 45.5 29.0 43.6#
56 41.5 25.2 37.8#



#53
Toluene
Concen: 0.575 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. -0.003 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 91 Resp: 134138
Ion Ratio Lower Upper
91 100
92 64.9 49.4 74.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.436 min Scan# 2748

Delta R.T. -0.003 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

ClientSampleId :

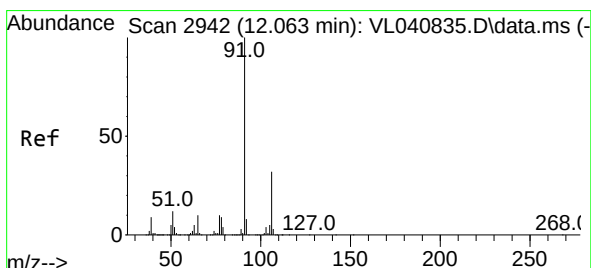
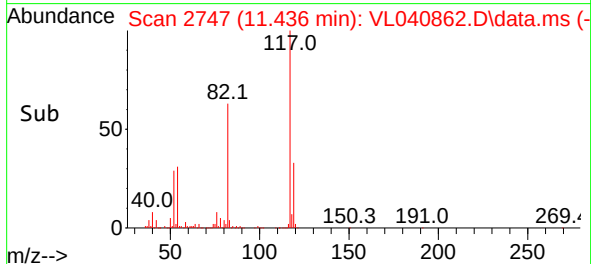
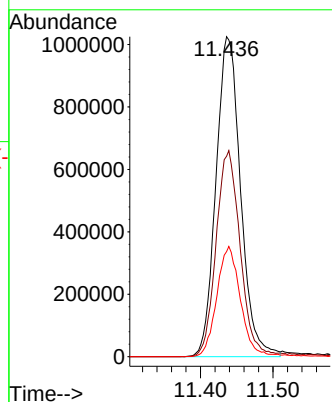
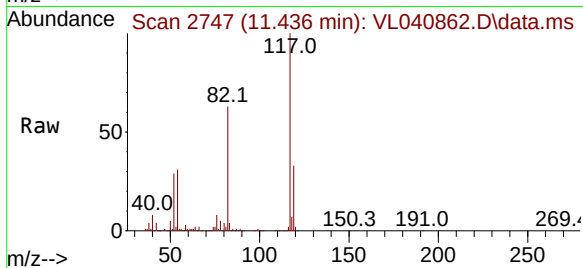
Tgt Ion:117 Resp: 2419715

Ion Ratio Lower Upper

117 100

82 64.5 50.6 75.8

119 33.6 23.3 34.9



#58

Ethyl Benzene

Concen: 0.045 ppbv

RT: 12.063 min Scan# 2942

Delta R.T. 0.000 min

Lab File: VL040862.D

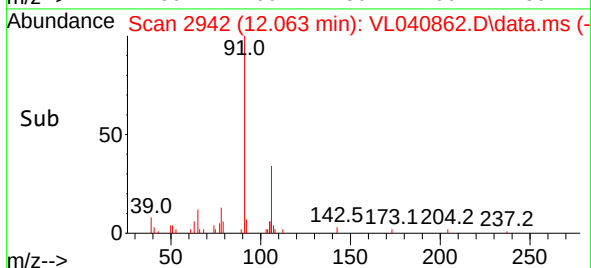
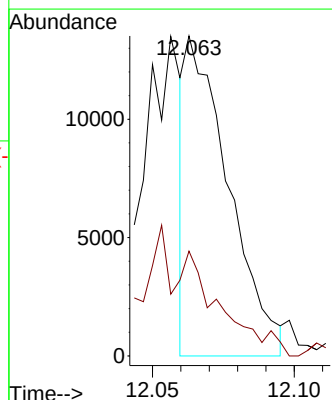
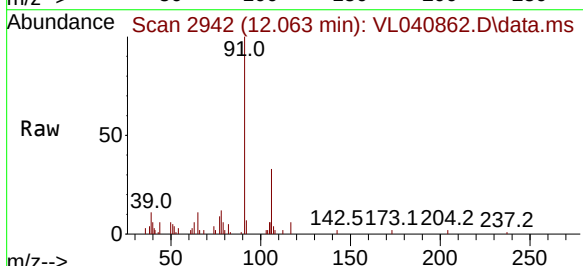
Acq: 14 Nov 2023 22:29

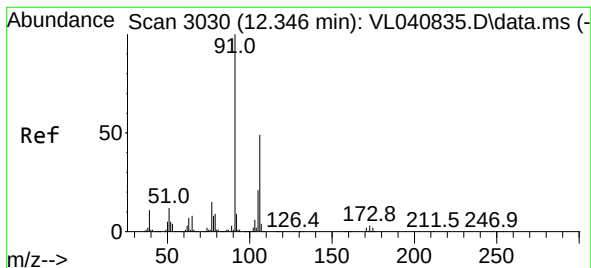
Tgt Ion: 91 Resp: 14245

Ion Ratio Lower Upper

91 100

106 31.3 25.2 37.8





#59

m/p-Xylene

Concen: 0.043 ppbv

RT: 12.336 min Scan# 3030

Delta R.T. -0.010 min

Lab File: VL040862.D

Acq: 14 Nov 2023 22:29

Instrument :

MSVOA_L

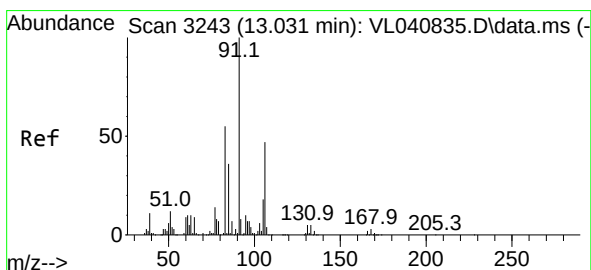
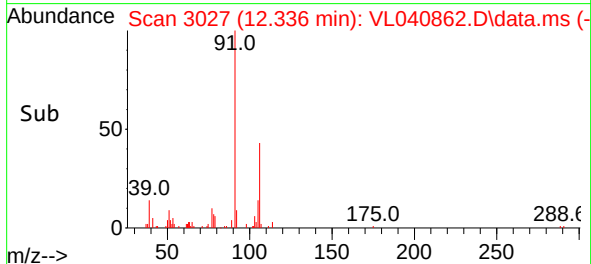
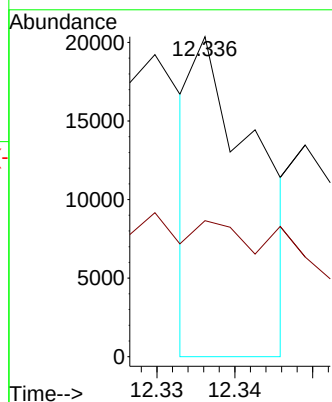
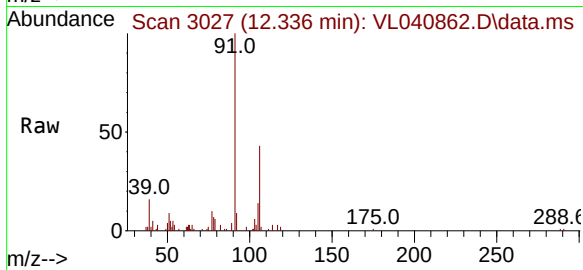
ClientSampleId :

Tgt Ion: 91 Resp: 11433

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#



#60

o-Xylene

Concen: 0.073 ppbv

RT: 13.027 min Scan# 3242

Delta R.T. -0.003 min

Lab File: VL040862.D

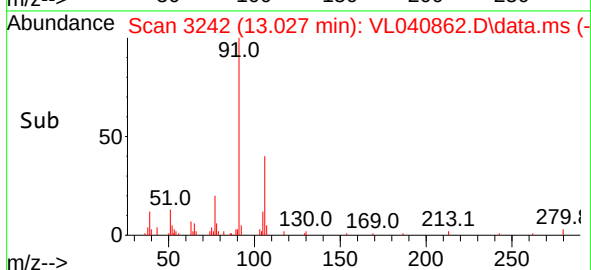
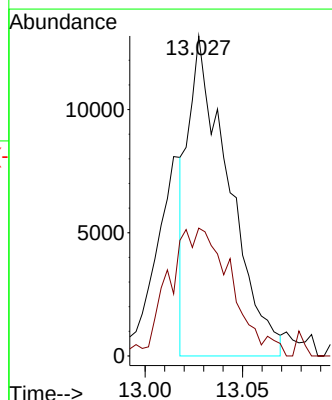
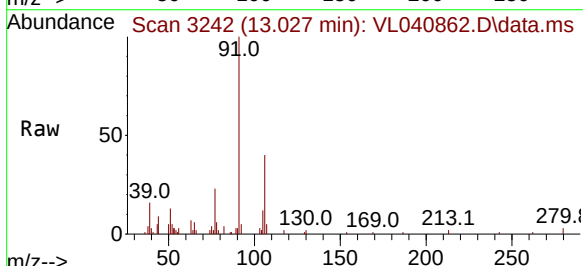
Acq: 14 Nov 2023 22:29

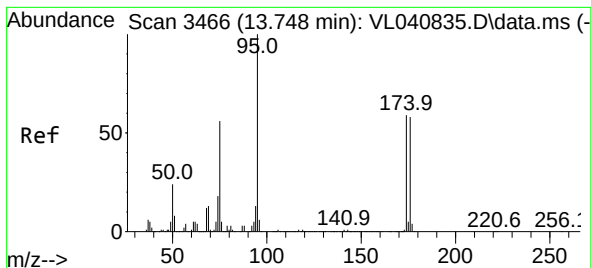
Tgt Ion: 91 Resp: 18732

Ion Ratio Lower Upper

91 100

106 64.1 22.9 68.5

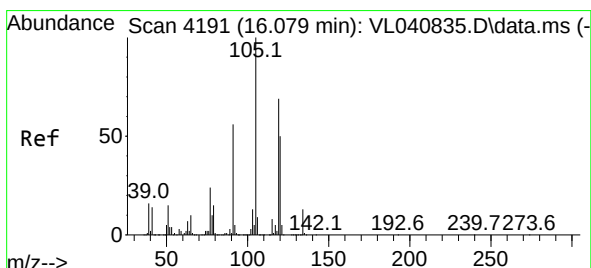
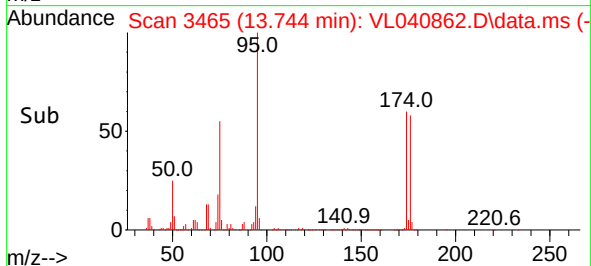
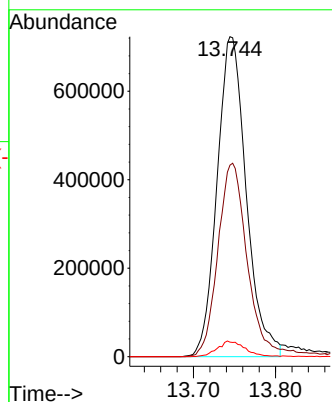
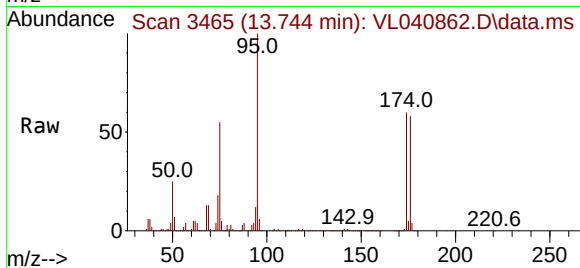




#68
1-Bromo-4-Fluorobenzene
Concen: 9.433 ppbv
RT: 13.744 min Scan# 3466
Delta R.T. -0.003 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1786996
Ion Ratio Lower Upper
95 100
174 62.9 47.5 71.3
175 4.7 3.6 5.4



#74
1,2,4-Trimethylbenzene
Concen: 0.033 ppbv
RT: 16.079 min Scan# 4191
Delta R.T. 0.000 min
Lab File: VL040862.D
Acq: 14 Nov 2023 22:29

Tgt Ion: 105 Resp: 9073
Ion Ratio Lower Upper
105 100
120 52.9 40.2 60.2
91 0.0 45.7 68.5#
77 23.6 19.2 28.8

