

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040728.D
 Acq On : 27 Sep 2023 15:27
 Operator : SY/MD
 Sample : 04616-02DL10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 28 01:44:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

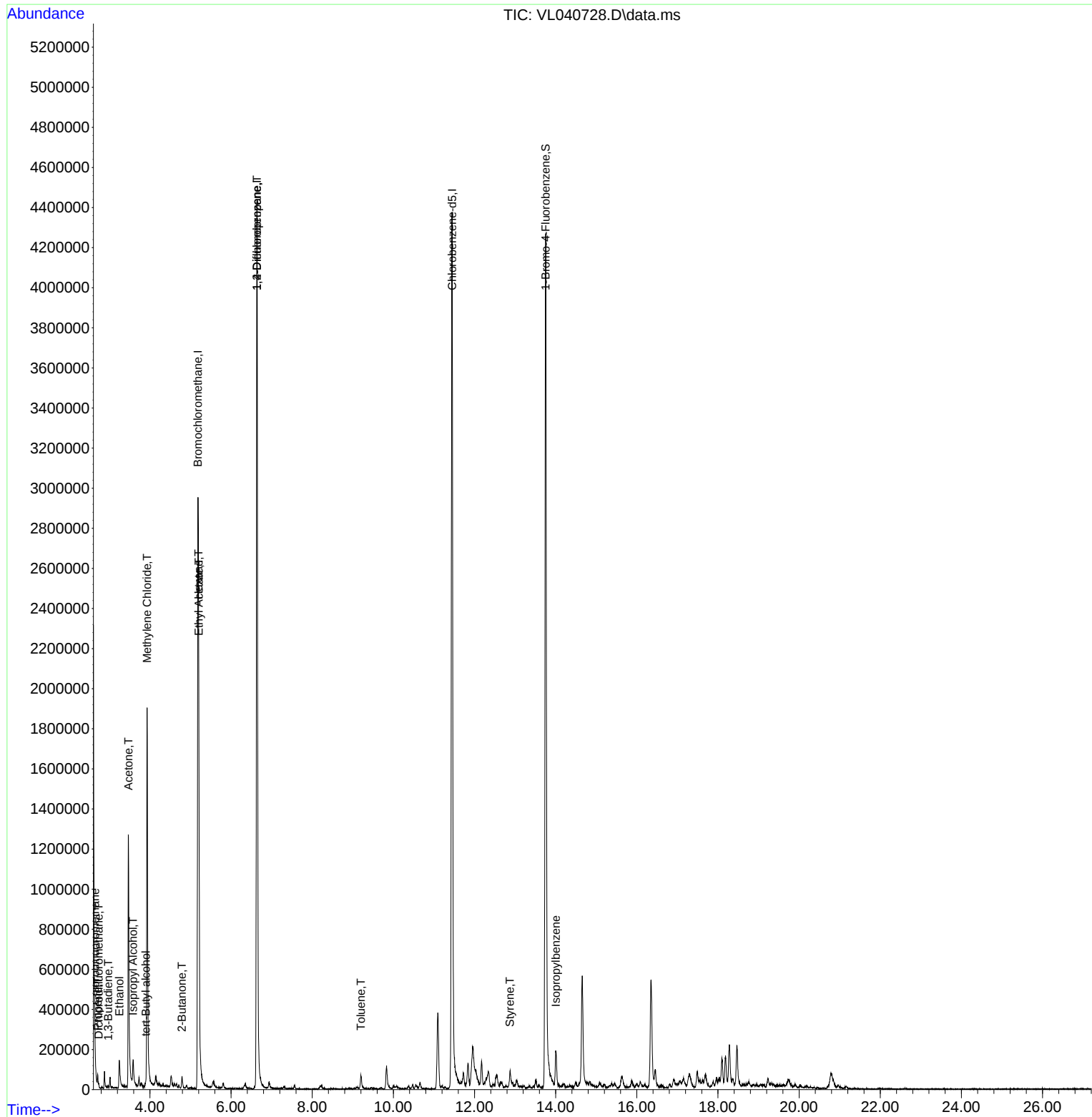
Internal Standards						
1) Bromochloromethane	5.182	49	1314997	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.639	114	3566814	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.446	117	3054873	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	2215984	9.389	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	10485	0.036	ppbv	92
3) Chlorodifluoromethane	2.652	51	15002	0.070	ppbv #	76
9) Propene	2.710	41	15501	0.251	ppbv #	72
13) Ethanol	3.247	45	155739	8.526	ppbv	99
15) Acetone	3.468	43	1315260	7.583	ppbv	97
16) 1,3-Butadiene	2.970	39	4422	0.058	ppbv #	25
17) tert-Butyl alcohol	3.899	59	21173	0.119	ppbv	96
19) Isopropyl Alcohol	3.584	45	141662	1.355	ppbv #	93
20) Methylene Chloride	3.931	84	640750	6.863	ppbv	92
25) Ethyl Acetate	5.205	43	380355	1.360	ppbv #	77
26) Hexane	5.201	57	579120	4.378	ppbv #	37
34) 2-Butanone	4.790	43	69068	0.385	ppbv	98
39) 1,2-Dichloropropane	6.639	63	834919	8.212	ppbv #	23
53) Toluene	9.198	91	29445	0.106	ppbv #	37
61) Styrene	12.873	104	37057	0.283	ppbv #	79
62) Isopropylbenzene	14.008	105	95451	0.203	ppbv #	50

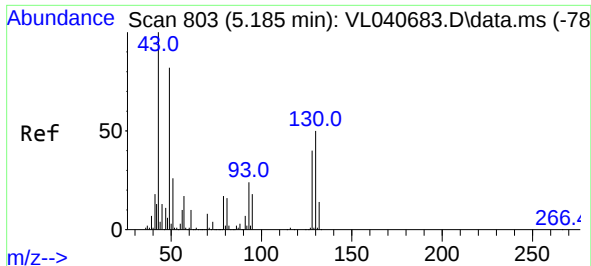
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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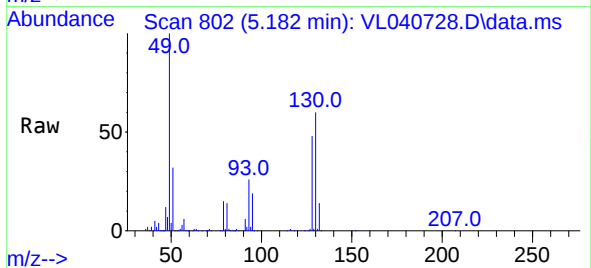
Quant Time: Sep 28 01:44:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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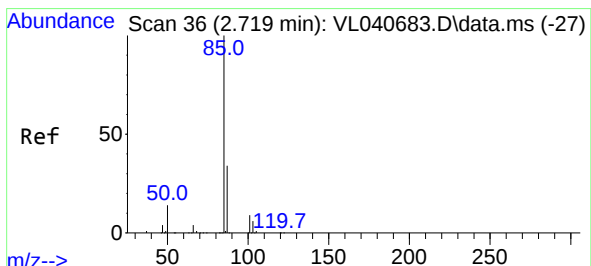
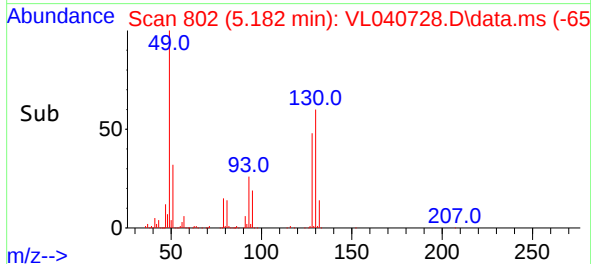
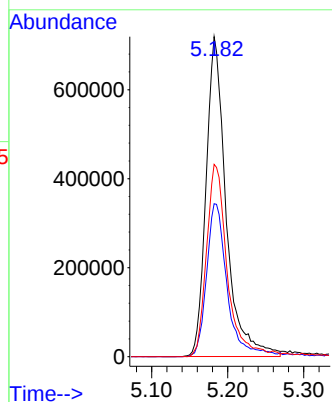


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. -0.016 min
 Lab File: VL040728.D
 Acq: 27 Sep 2023 15:27

Instrument :
 MSVOA_L
 ClientSampleId :

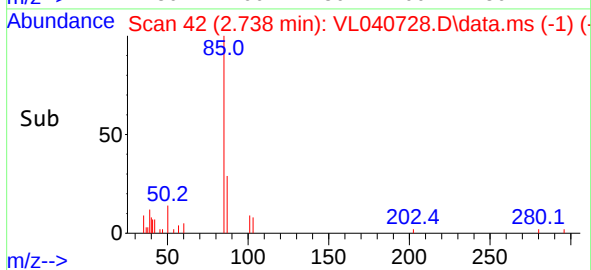
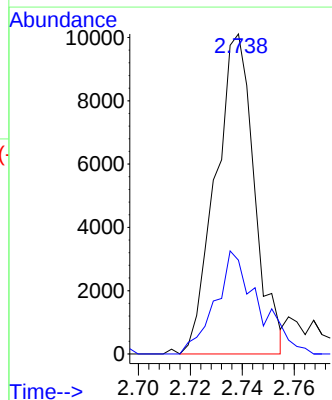
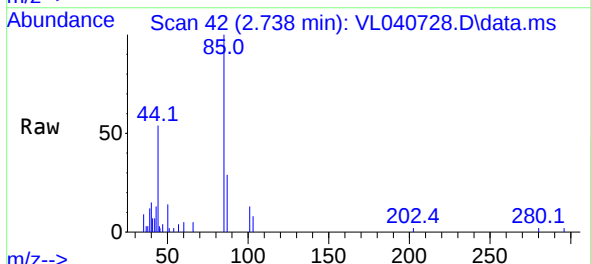


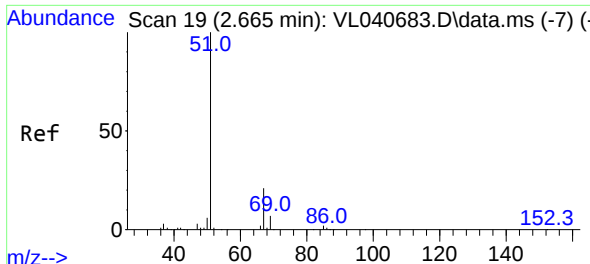
Tgt Ion: 49 Resp: 1314997
 Ion Ratio Lower Upper
 49 100
 128 51.4 25.4 76.0
 130 63.9 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.036 ppbv
 RT: 2.738 min Scan# 42
 Delta R.T. 0.006 min
 Lab File: VL040728.D
 Acq: 27 Sep 2023 15:27

Tgt Ion: 85 Resp: 10485
 Ion Ratio Lower Upper
 85 100
 87 29.3 27.2 40.8

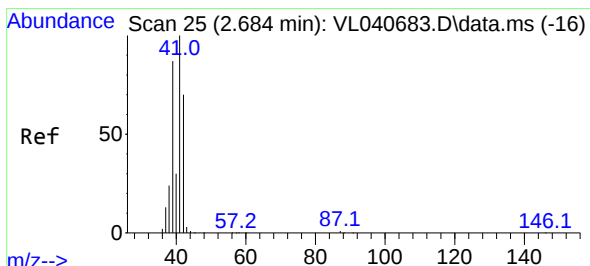
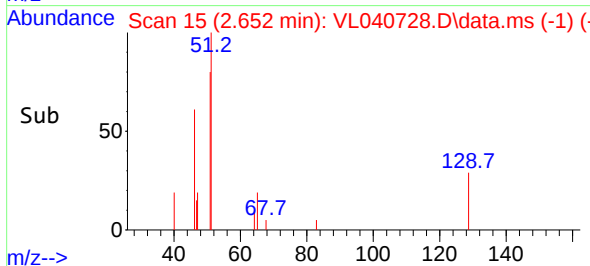
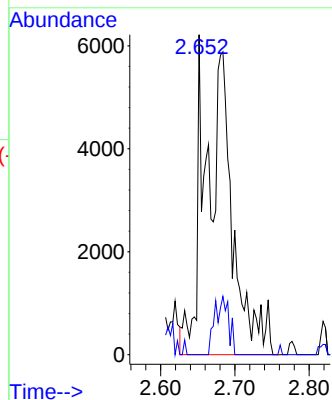
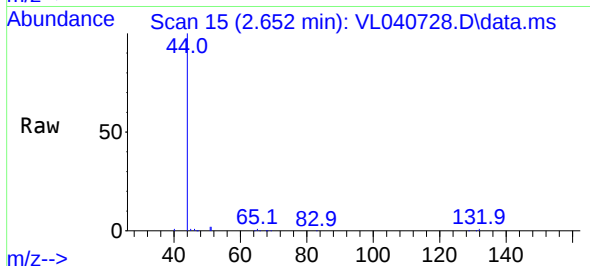




#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

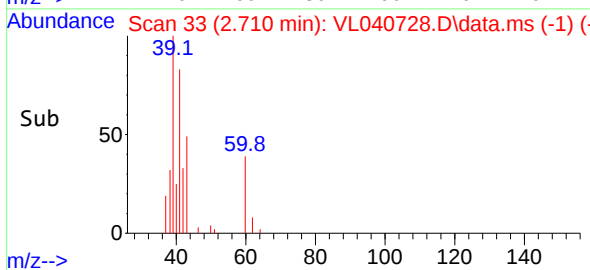
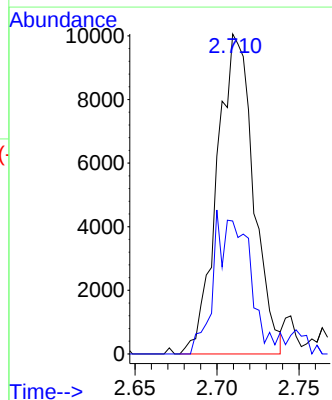
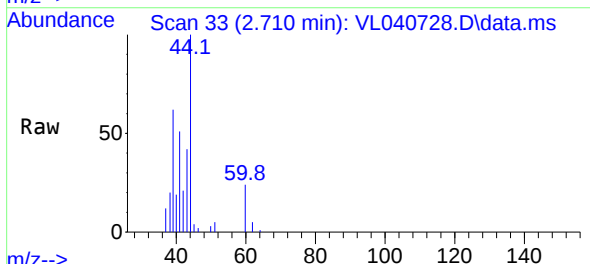
Instrument :
MSVOA_L
ClientSampleId :

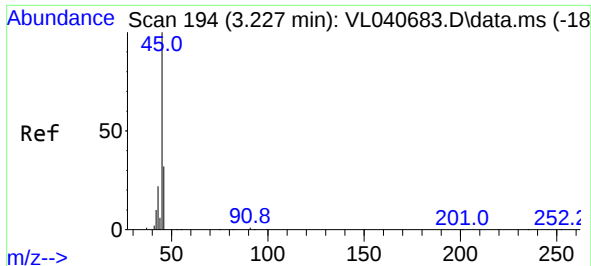
Tgt Ion: 51 Resp: 15002
Ion Ratio Lower Upper
51 100
67 9.7 16.7 25.1#



#9
Propene
Concen: 0.251 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Tgt Ion: 41 Resp: 15501
Ion Ratio Lower Upper
41 100
42 47.4 56.7 85.1#





#13

Ethanol

Concen: 8.526 ppbv

RT: 3.247 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL040728.D

Acq: 27 Sep 2023 15:27

Instrument :

MSVOA_L

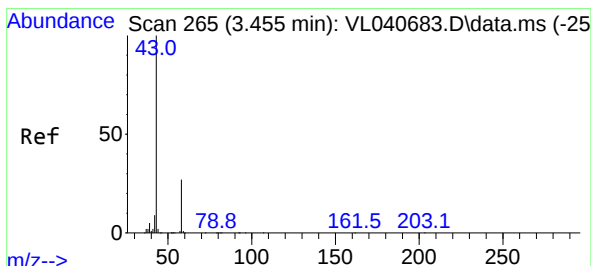
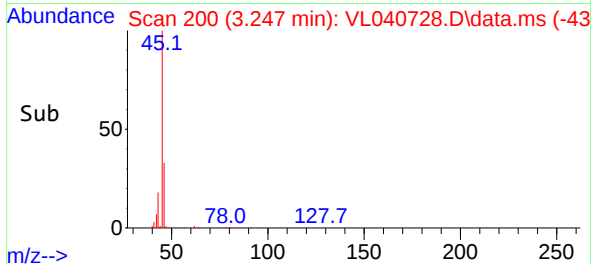
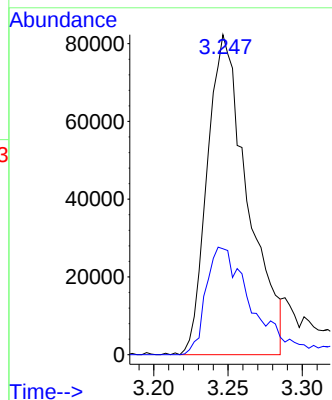
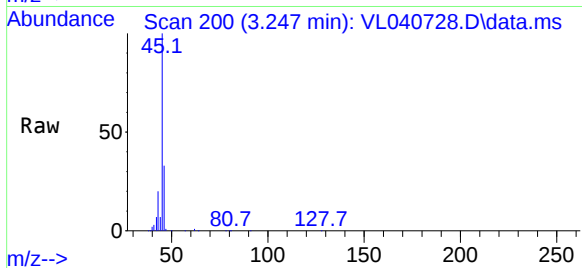
ClientSampleId :

Tgt Ion: 45 Resp: 155739

Ion Ratio Lower Upper

45 100

46 38.4 15.2 61.0



#15

Acetone

Concen: 7.583 ppbv

RT: 3.468 min Scan# 269

Delta R.T. -0.003 min

Lab File: VL040728.D

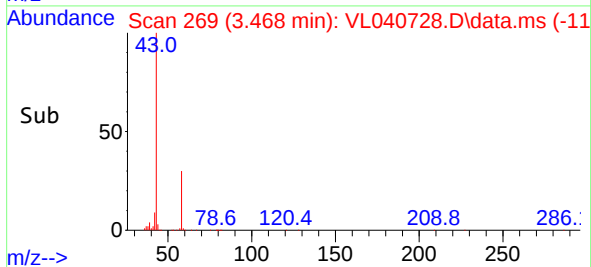
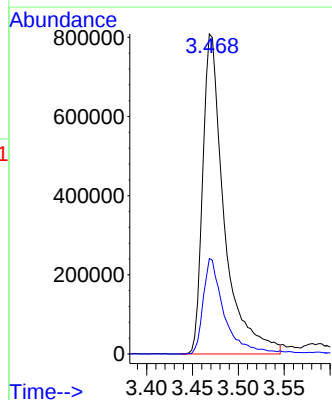
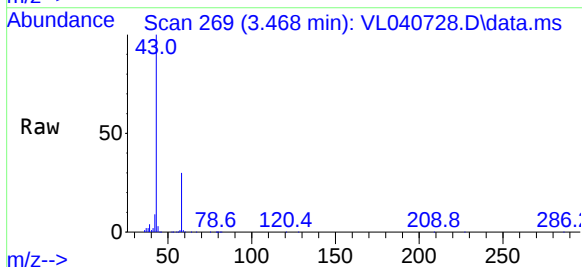
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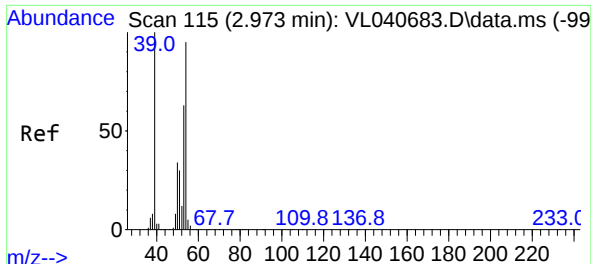
Tgt Ion: 43 Resp: 1315260

Ion Ratio Lower Upper

43 100

58 29.7 22.6 34.0

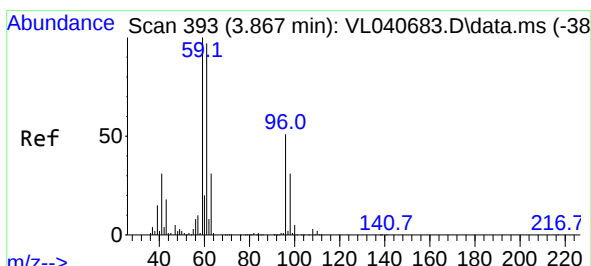
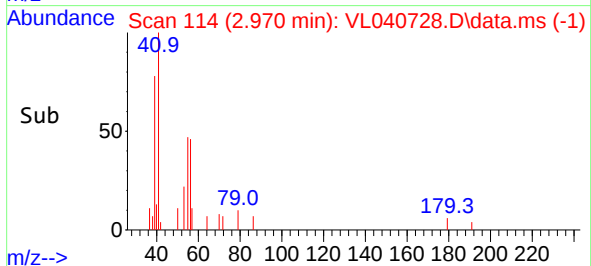
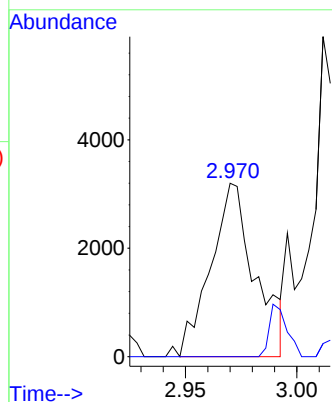
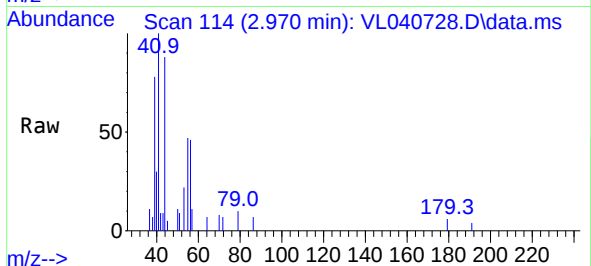




#16
1,3-Butadiene
Concen: 0.058 ppbv
RT: 2.970 min Scan# 115
Delta R.T. -0.019 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

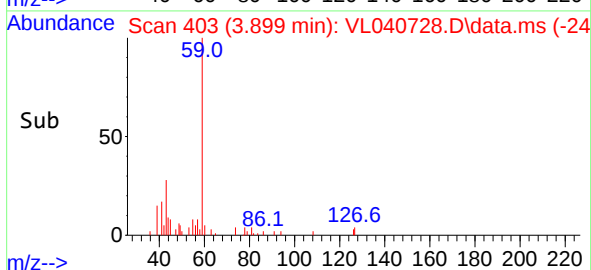
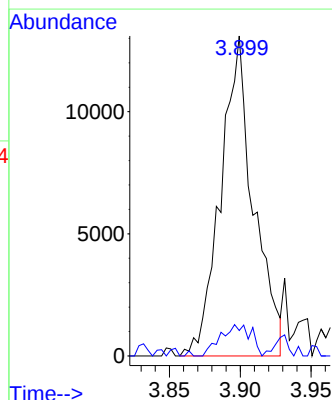
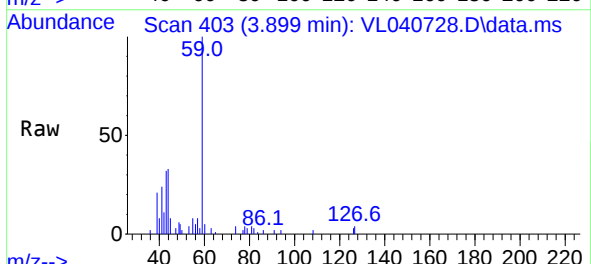
Instrument :
MSVOA_L
ClientSampleId :

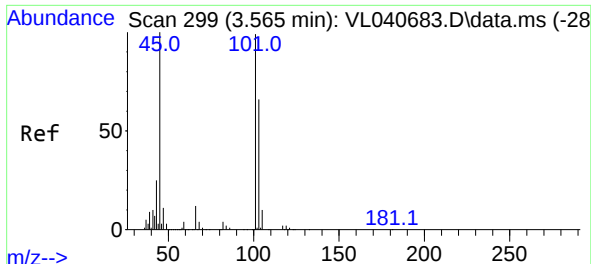
Tgt Ion: 39 Resp: 4422
Ion Ratio Lower Upper
39 100
54 14.3 64.8 97.2#



#17
tert-Butyl alcohol
Concen: 0.119 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.016 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Tgt Ion: 59 Resp: 21173
Ion Ratio Lower Upper
59 100
57 9.4 8.7 13.1





#19

Isopropyl Alcohol

Concen: 1.355 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.006 min

Lab File: VL040728.D

Acq: 27 Sep 2023 15:27

Instrument :

MSVOA_L

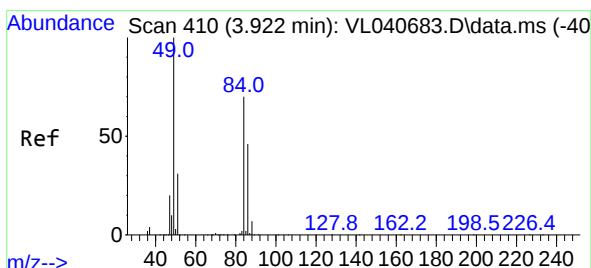
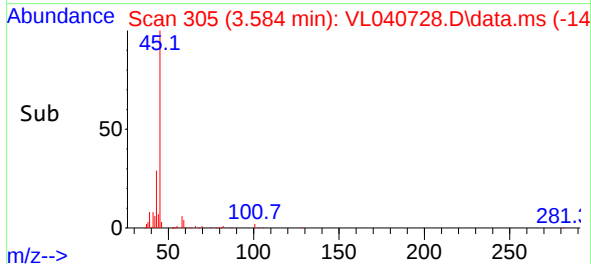
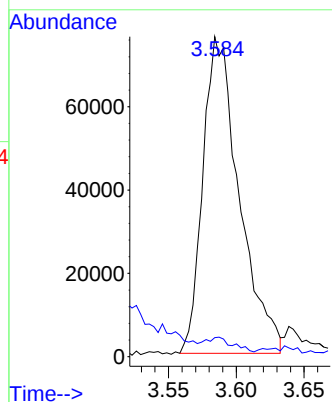
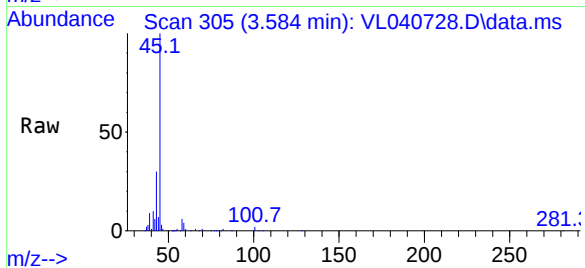
ClientSampleId :

Tgt Ion: 45 Resp: 141662

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 6.863 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.006 min

Lab File: VL040728.D

Acq: 27 Sep 2023 15:27

Tgt Ion: 84 Resp: 640750

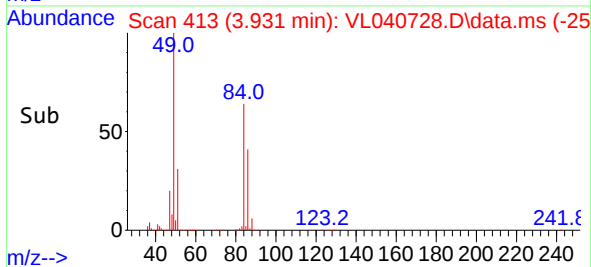
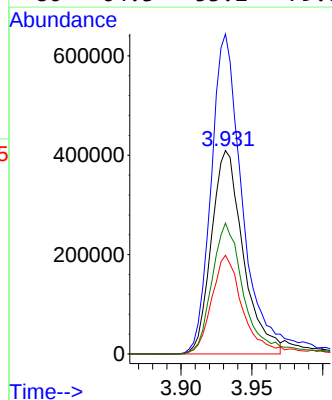
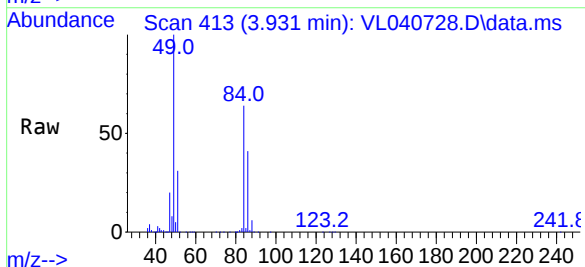
Ion Ratio Lower Upper

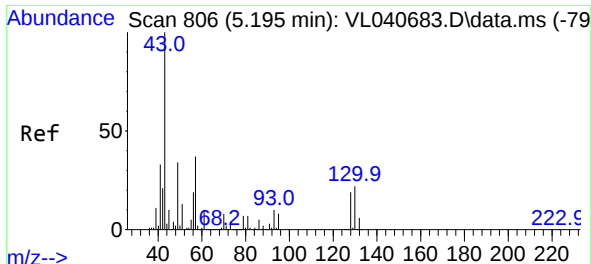
84 100

49 157.2 114.4 171.6

51 48.5 35.5 53.3

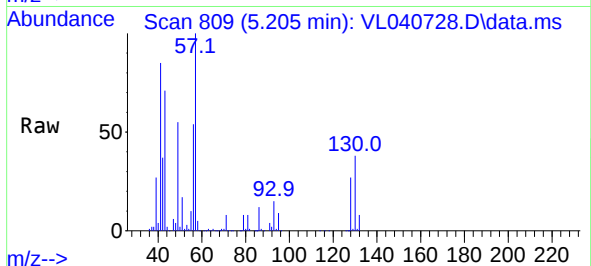
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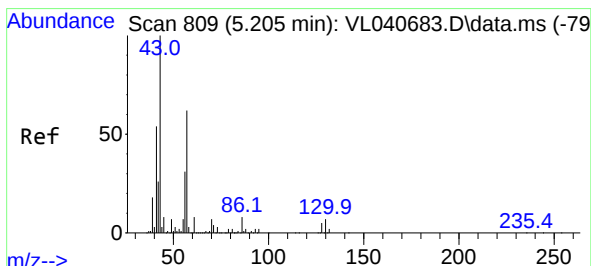
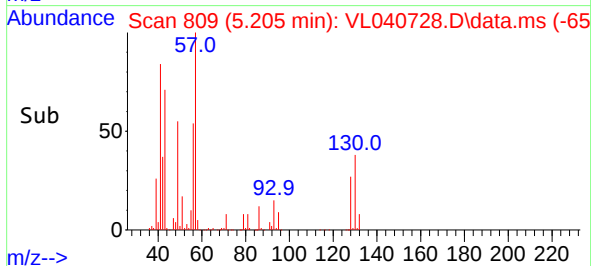
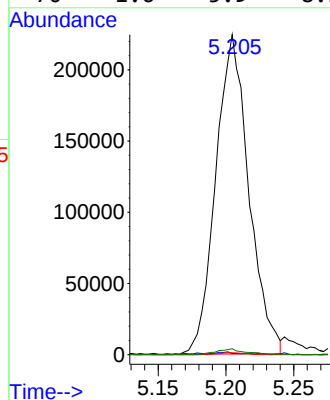


#25
Ethyl Acetate
Concen: 1.360 ppbv
RT: 5.205 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Instrument :
MSVOA_L
ClientSampleId :

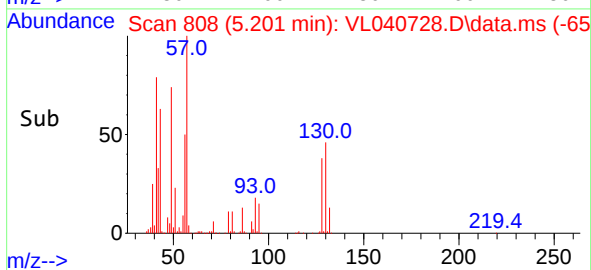
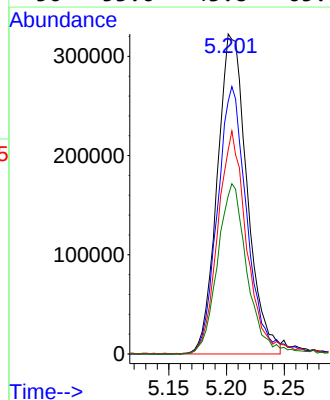
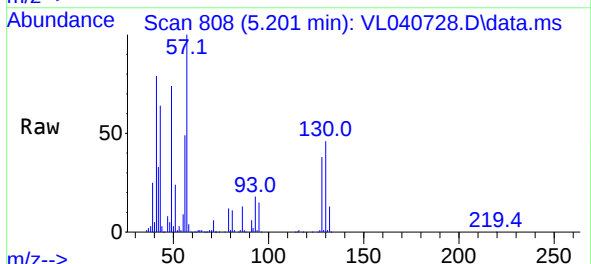


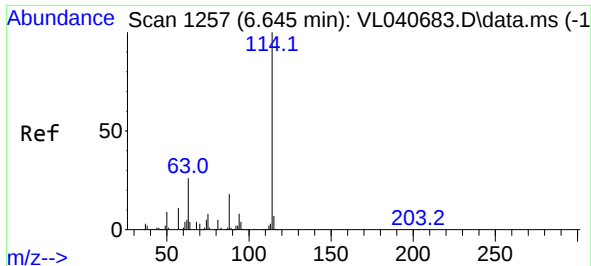
Tgt Ion: 43 Resp: 380355
Ion Ratio Lower Upper
43 100
45 0.8 8.2 12.4#
61 0.5 8.2 12.4#
70 1.6 5.9 8.9#



#26
Hexane
Concen: 4.378 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.019 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Tgt Ion: 57 Resp: 579120
Ion Ratio Lower Upper
57 100
41 84.5 75.2 112.8
43 68.5 185.6 278.4#
56 53.6 43.8 65.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.022 min

Lab File: VL040728.D

Acq: 27 Sep 2023 15:27

Instrument :

MSVOA_L

ClientSampleId :

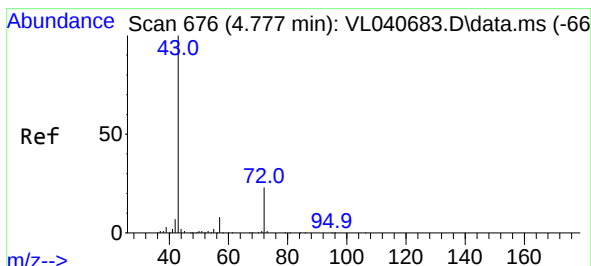
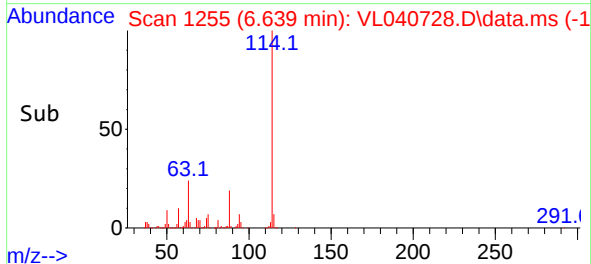
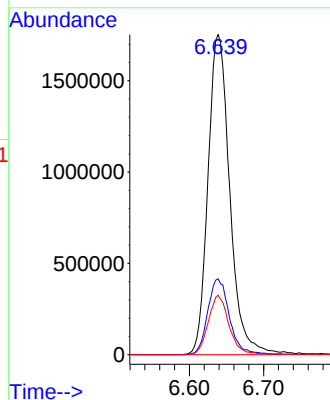
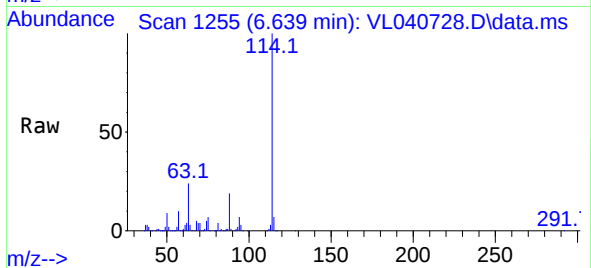
Tgt Ion:114 Resp: 3566814

Ion Ratio Lower Upper

114 100

63 23.9 21.1 31.7

88 17.8 14.5 21.7



#34

2-Butanone

Concen: 0.385 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.000 min

Lab File: VL040728.D

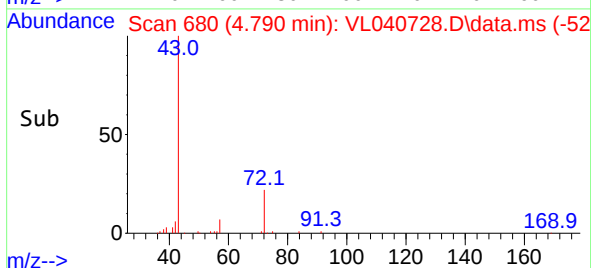
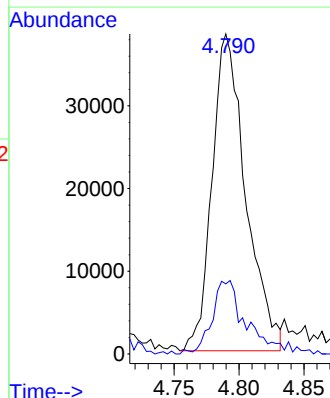
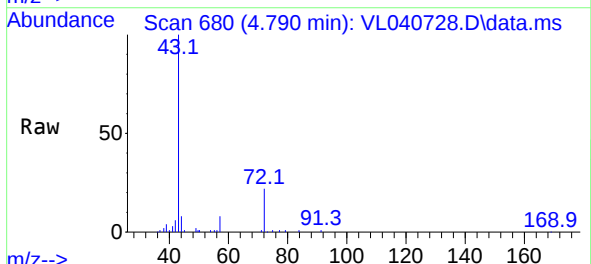
Acq: 27 Sep 2023 15:27

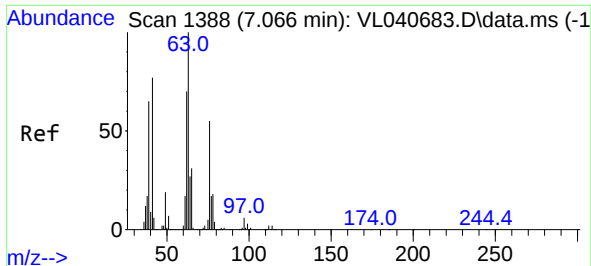
Tgt Ion: 43 Resp: 69068

Ion Ratio Lower Upper

43 100

72 24.3 18.6 27.8





#39

1,2-Dichloropropane

Concen: 8.212 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.444 min

Lab File: VL040728.D

Acq: 27 Sep 2023 15:27

Instrument :

MSVOA_L

ClientSampleId :

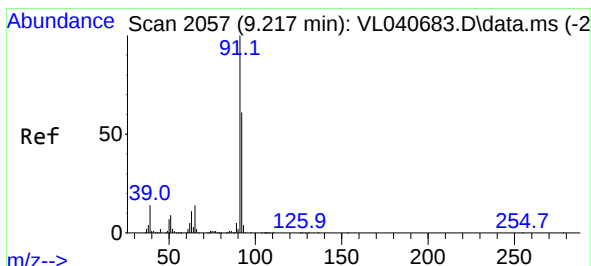
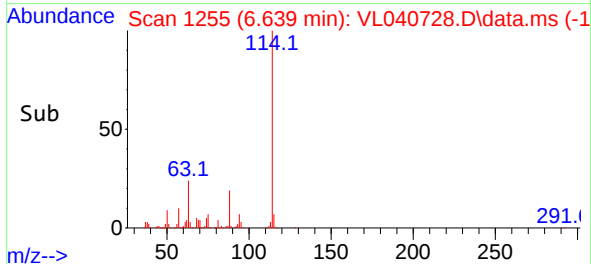
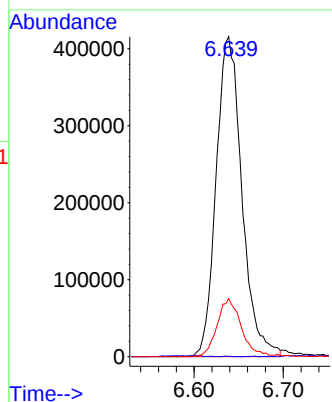
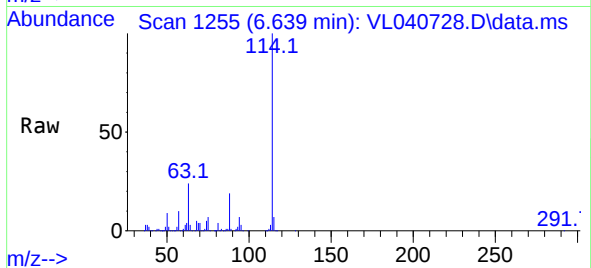
Tgt Ion: 63 Resp: 834919

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 18.1 55.8 83.8#



#53

Toluene

Concen: 0.106 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. -0.032 min

Lab File: VL040728.D

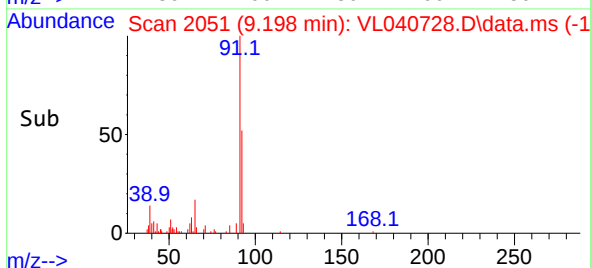
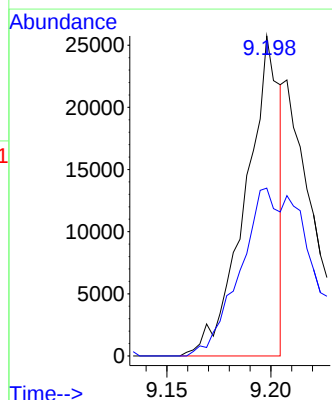
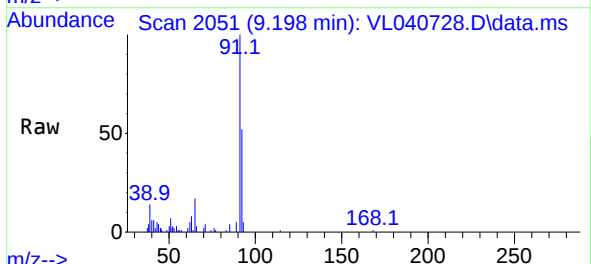
Acq: 27 Sep 2023 15:27

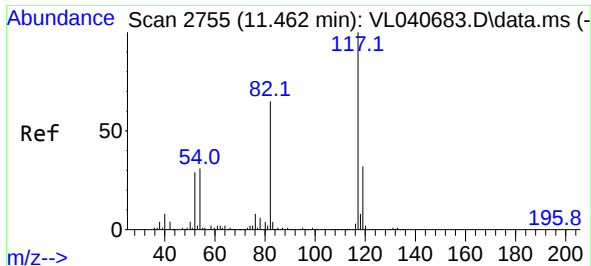
Tgt Ion: 91 Resp: 29445

Ion Ratio Lower Upper

91 100

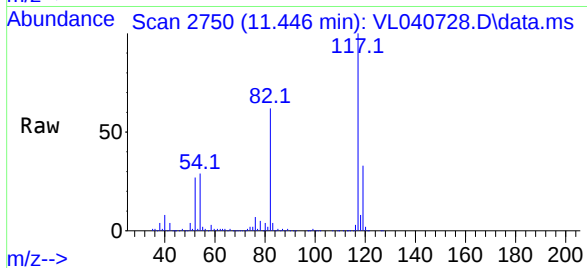
92 108.8 48.5 72.7#



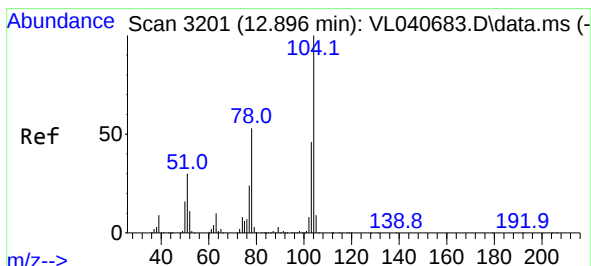
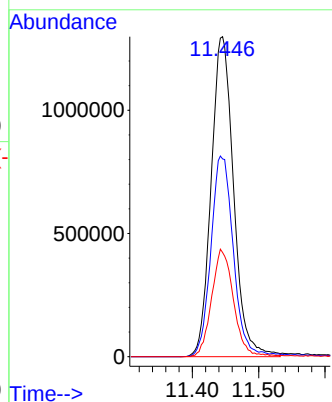
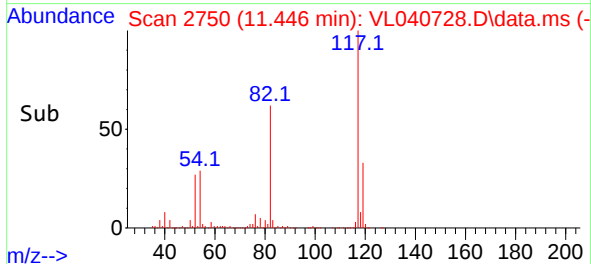


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. -0.032 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

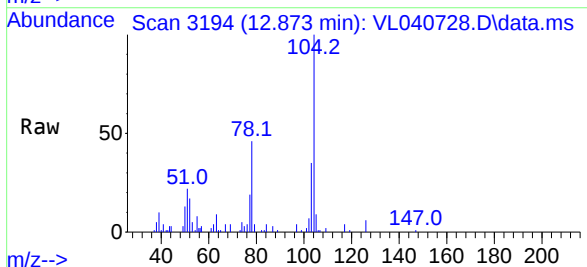
Instrument :
MSVOA_L
ClientSampleId :



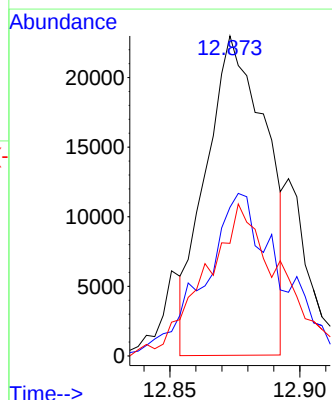
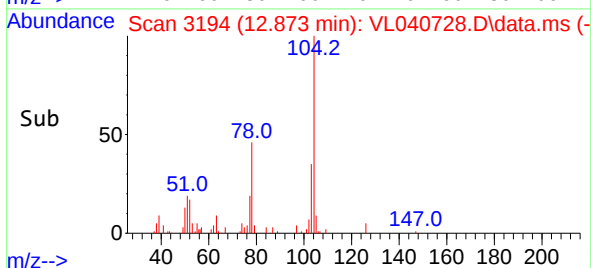
Tgt Ion:117 Resp: 3054873
Ion Ratio Lower Upper
117 100
82 64.3 51.4 77.0
119 33.0 24.7 37.1

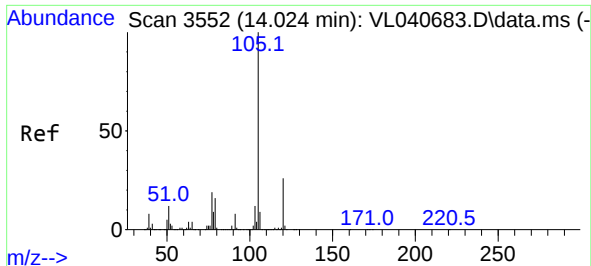


#61
Styrene
Concen: 0.283 ppbv
RT: 12.873 min Scan# 3194
Delta R.T. -0.032 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27



Tgt Ion:104 Resp: 37057
Ion Ratio Lower Upper
104 100
78 67.4 43.4 65.0#
103 62.9 37.2 55.8#

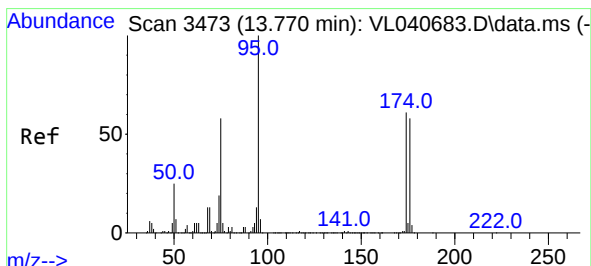
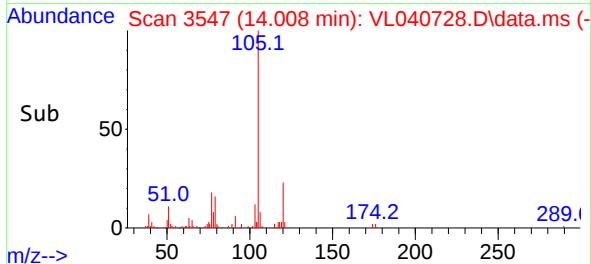
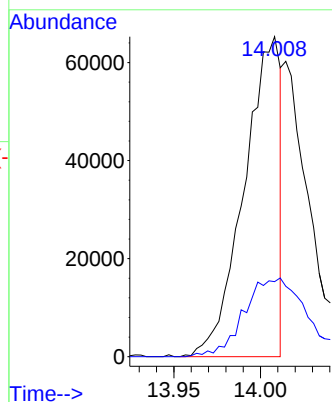
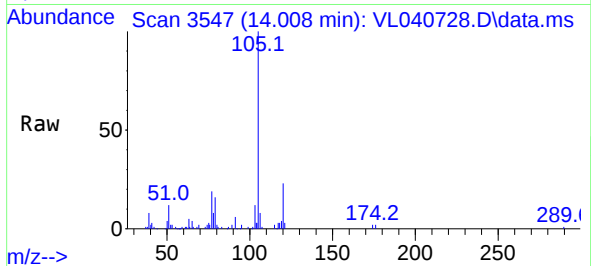




#62
Isopropylbenzene
Concen: 0.203 ppbv
RT: 14.008 min Scan# 31
Delta R.T. -0.029 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 95451
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.389 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. -0.032 min
Lab File: VL040728.D
Acq: 27 Sep 2023 15:27

Tgt Ion: 95 Resp: 2215984
Ion Ratio Lower Upper
95 100
174 68.2 48.9 73.3
175 5.1 3.5 5.3

