

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040829.D
 Acq On : 9 Nov 2023 9:59
 Operator : SY/MD
 Sample : 05276-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4DL

Quant Time: Nov 10 04:50:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.221	49	1149329	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2774978	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2357678	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1717328	9.899	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

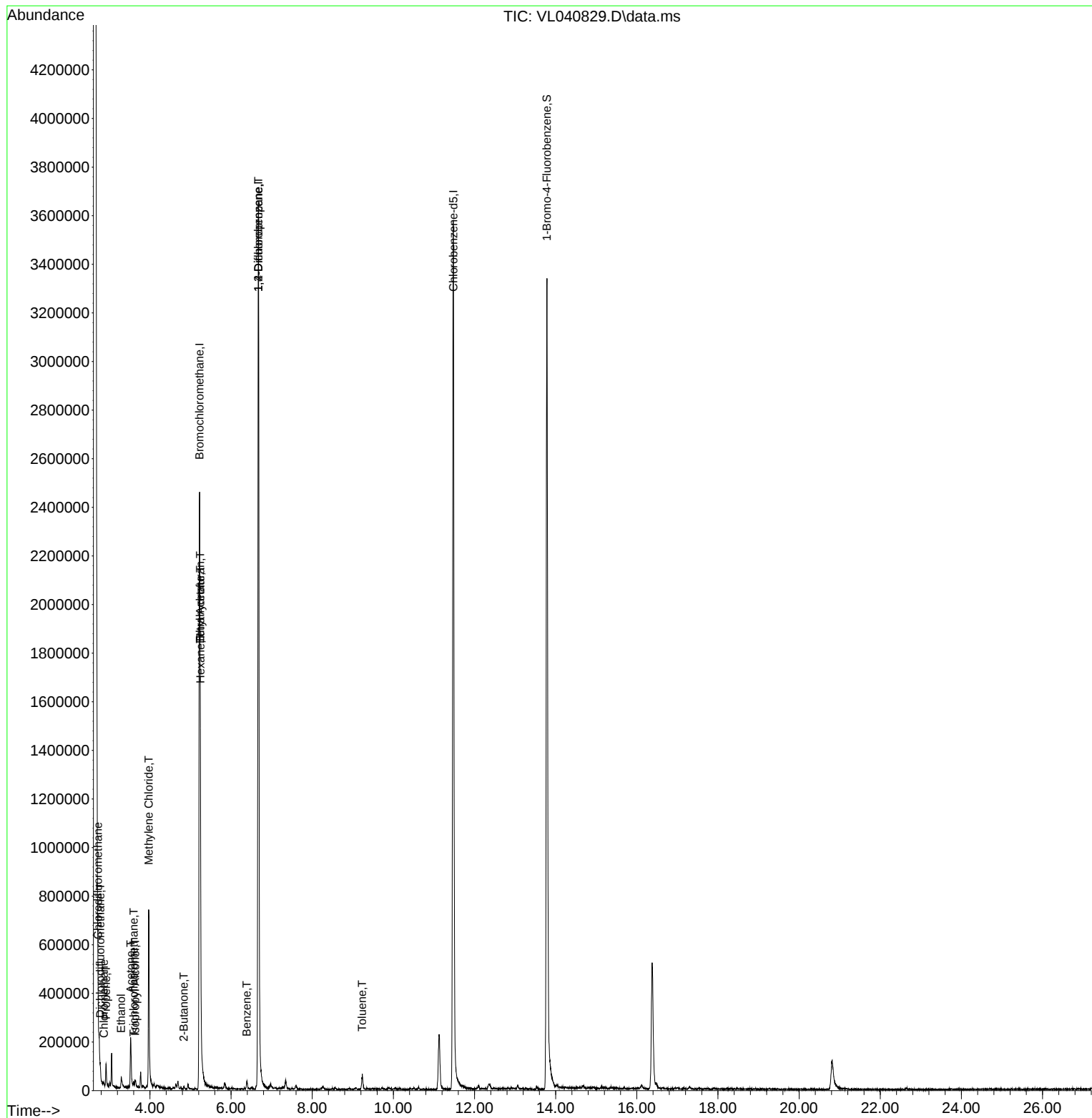
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.774	85	26582	0.131	ppbv	92
3) Chlorodifluoromethane	2.722	51	29009	0.172	ppbv #	86
4) Chloromethane	2.864	50	2922	0.044	ppbv	93
9) Propene	2.919	41	24720	0.394	ppbv	94
11) Trichlorofluoromethane	3.600	101	9675	0.062	ppbv	90
13) Ethanol	3.292	45	33104	2.338	ppbv #	55
15) Acetone	3.523	43	194676	1.638	ppbv	97
19) Isopropyl Alcohol	3.636	45	33060	0.432	ppbv #	50
20) Methylene Chloride	3.970	84	232494	4.698	ppbv	94
25) Ethyl Acetate	5.240	43	263086	1.011	ppbv #	76
26) Hexane	5.243	57	372184	3.128	ppbv #	40
34) 2-Butanone	4.835	43	14776	0.118	ppbv #	86
36) Benzene	6.388	78	9545	0.045	ppbv #	86
39) 1,2-Dichloropropane	6.674	63	687869	8.249	ppbv #	28
41) Tetrahydrofuran	5.240	42	147545	1.696	ppbv #	50
53) Toluene	9.230	91	36029	0.142	ppbv	94

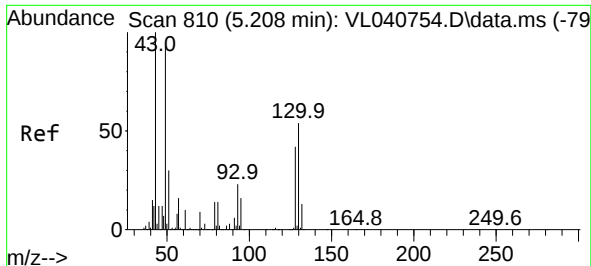
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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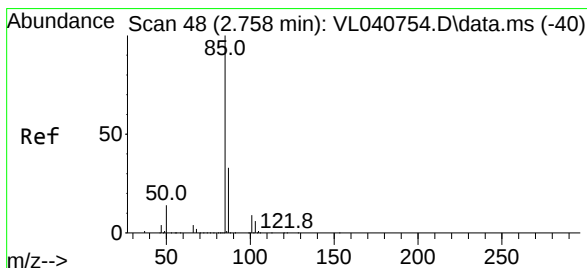
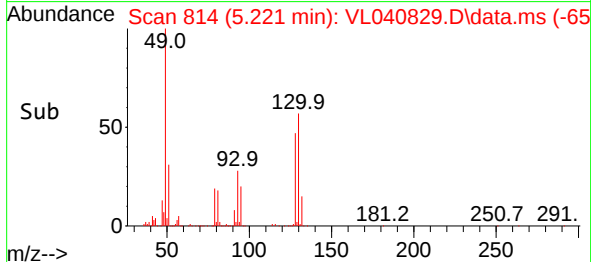
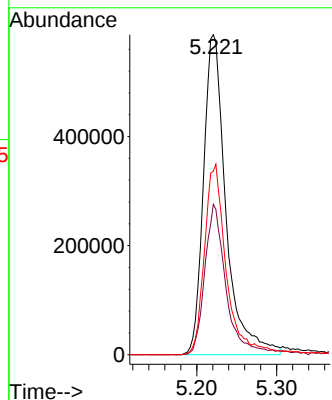
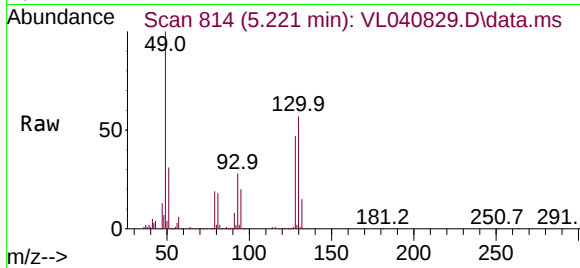




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.221 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL040829.D
 Acq: 9 Nov 2023 9:59

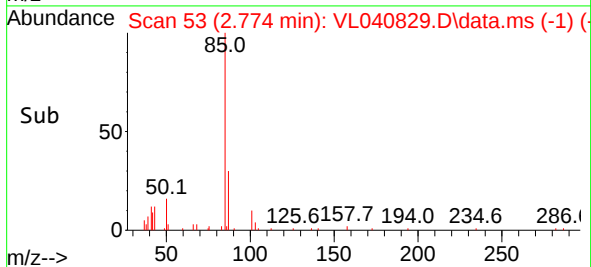
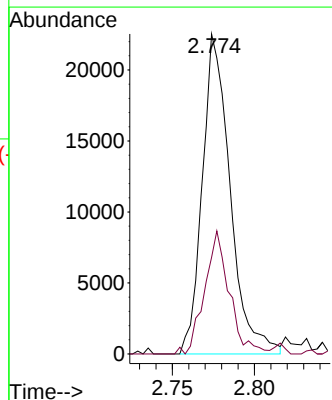
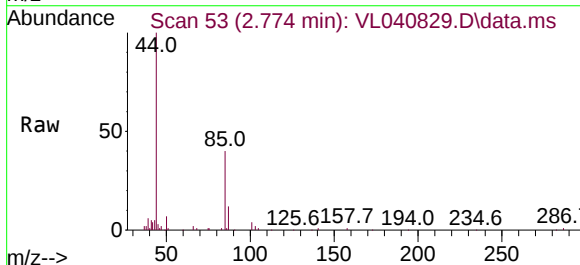
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4DL

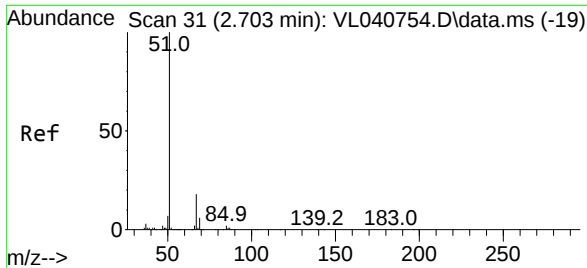
Tgt Ion: 49 Resp: 1149329
 Ion Ratio Lower Upper
 49 100
 128 45.6 23.9 71.7
 130 59.2 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.131 ppbv
 RT: 2.774 min Scan# 53
 Delta R.T. 0.003 min
 Lab File: VL040829.D
 Acq: 9 Nov 2023 9:59

Tgt Ion: 85 Resp: 26582
 Ion Ratio Lower Upper
 85 100
 87 28.0 26.0 39.0

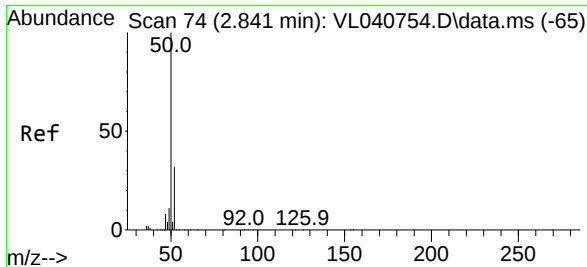
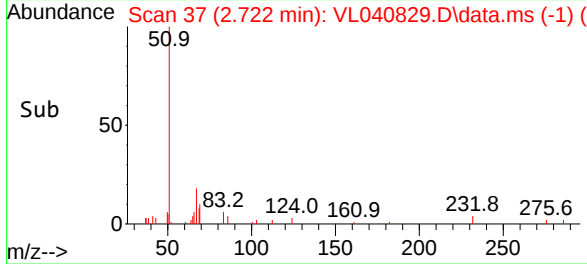
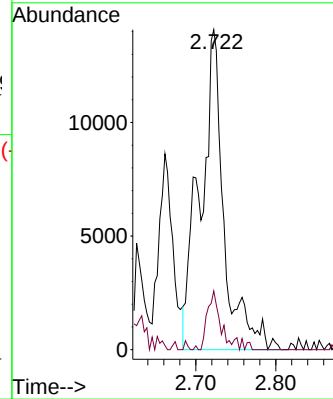
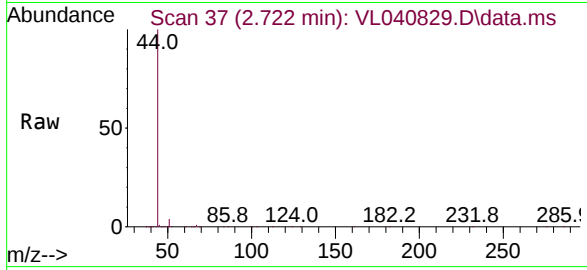




#3
Chlorodifluoromethane
Concen: 0.172 ppbv
RT: 2.722 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

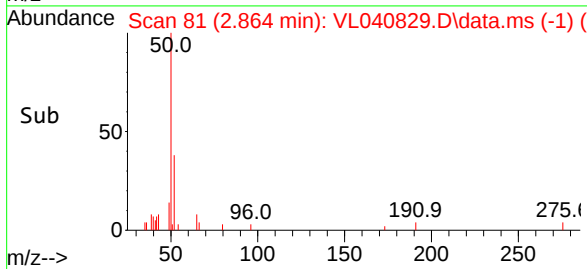
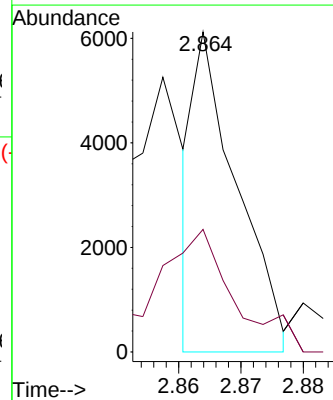
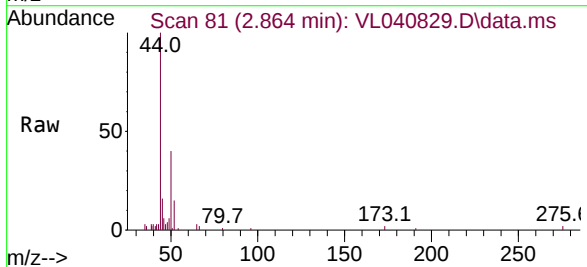
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

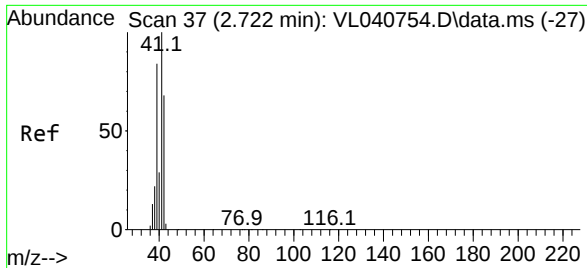
Tgt Ion: 51 Resp: 29009
Ion Ratio Lower Upper
51 100
67 11.2 13.8 20.6#



#4
Chloromethane
Concen: 0.044 ppbv
RT: 2.864 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 50 Resp: 2922
Ion Ratio Lower Upper
50 100
52 27.7 25.3 37.9

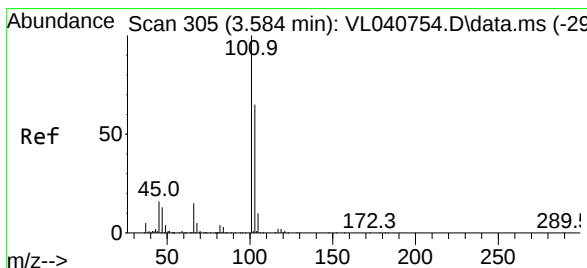
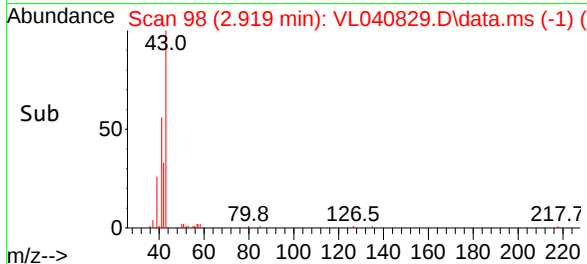
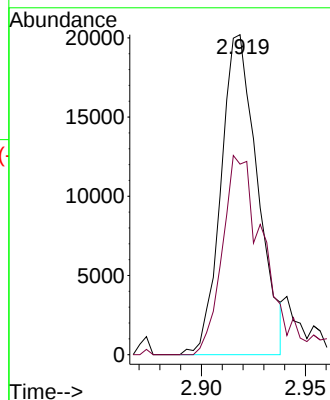
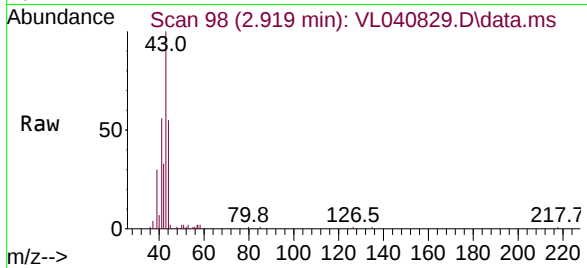




#9
Propene
Concen: 0.394 ppbv
RT: 2.919 min Scan# 91
Delta R.T. 0.183 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

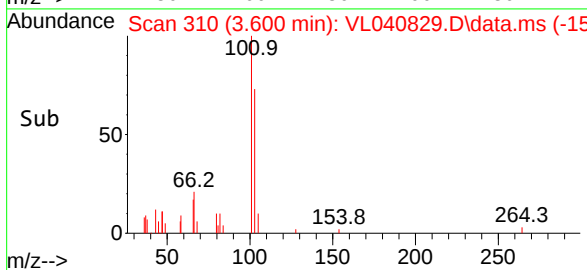
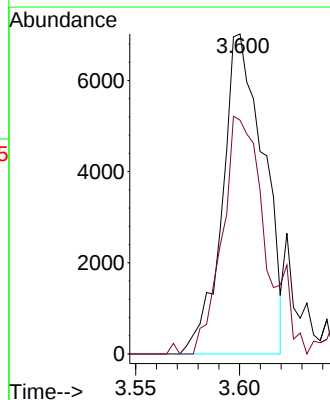
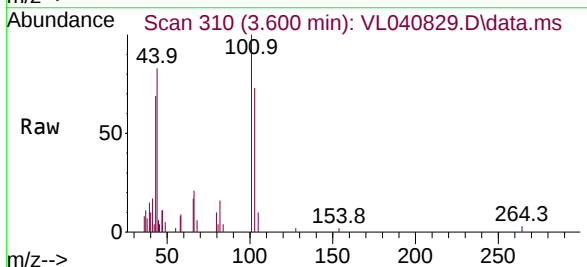
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

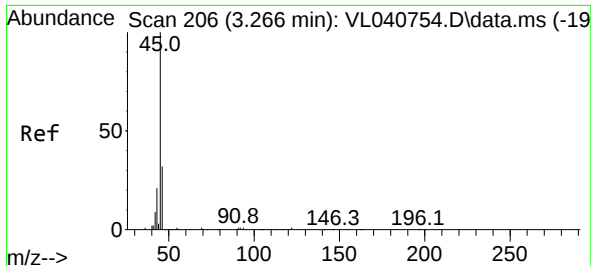
Tgt Ion: 41 Resp: 24720
Ion Ratio Lower Upper
41 100
42 76.7 57.1 85.7



#11
Trichlorofluoromethane
Concen: 0.062 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.007 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 101 Resp: 9675
Ion Ratio Lower Upper
101 100
103 73.0 52.2 78.2

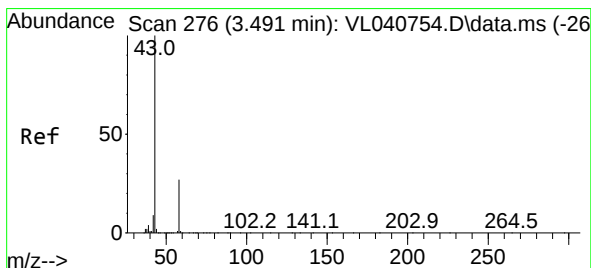
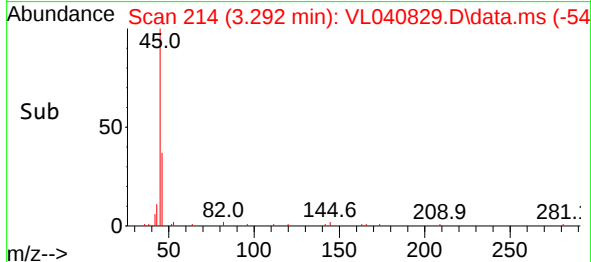
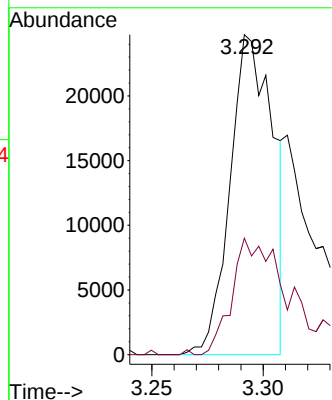
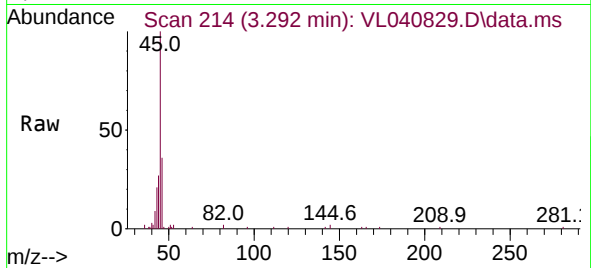




#13
Ethanol
Concen: 2.338 ppbv
RT: 3.292 min Scan# 214
Delta R.T. 0.013 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

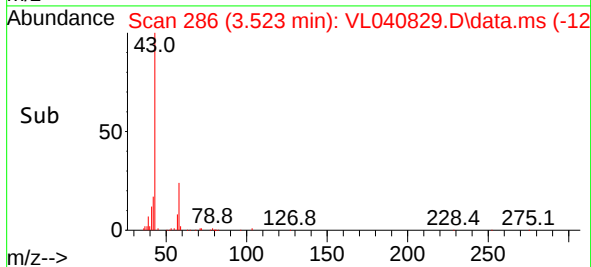
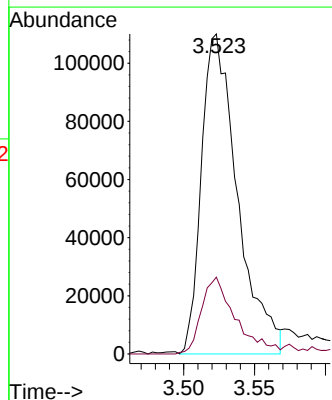
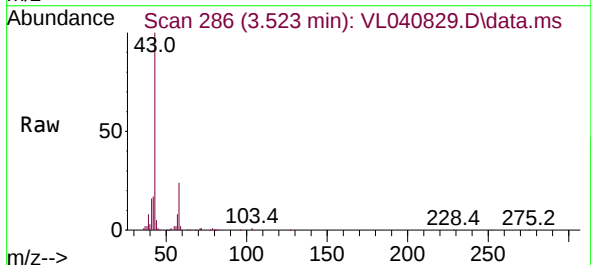
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

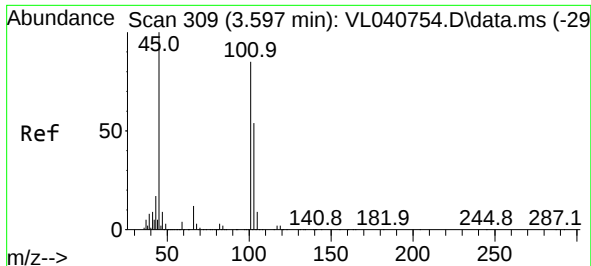
Tgt Ion: 45 Resp: 33104
Ion Ratio Lower Upper
45 100
46 62.9 14.6 58.2#



#15
Acetone
Concen: 1.638 ppbv
RT: 3.523 min Scan# 286
Delta R.T. 0.023 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 43 Resp: 194676
Ion Ratio Lower Upper
43 100
58 25.3 21.6 32.4





#19

Isopropyl Alcohol

Concen: 0.432 ppbv

RT: 3.636 min Scan# 31

Delta R.T. 0.029 min

Lab File: VL040829.D

Acq: 9 Nov 2023 9:59

Instrument :

MSVOA_L

ClientSampleId :

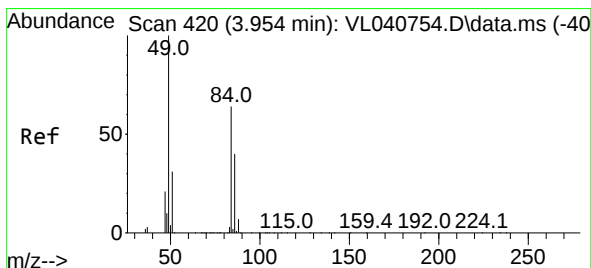
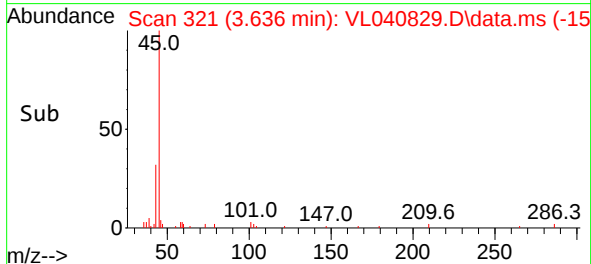
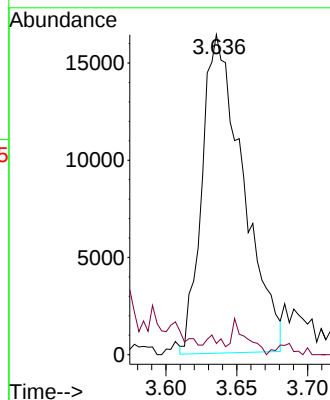
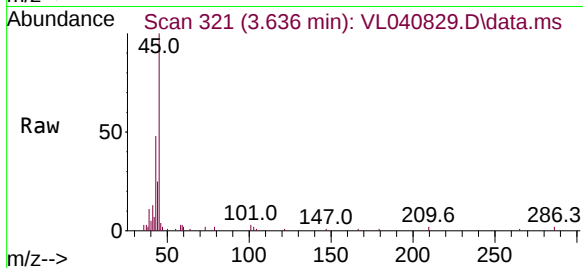
SH-IA-4DL

Tgt Ion: 45 Resp: 33060

Ion Ratio Lower Upper

45 100

58 7.7 30.3 45.5#



#20

Methylene Chloride

Concen: 4.698 ppbv

RT: 3.970 min Scan# 425

Delta R.T. 0.010 min

Lab File: VL040829.D

Acq: 9 Nov 2023 9:59

Tgt Ion: 84 Resp: 232494

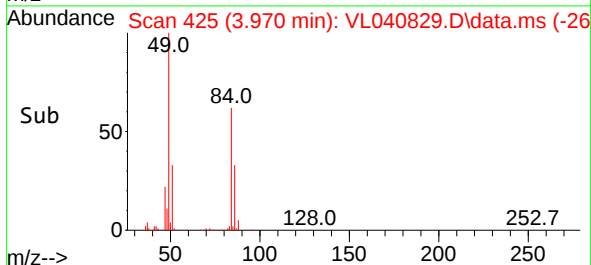
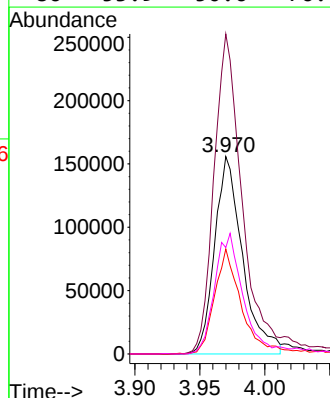
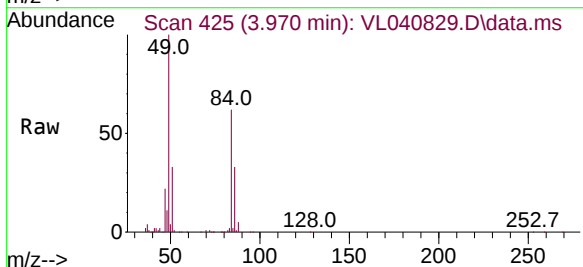
Ion Ratio Lower Upper

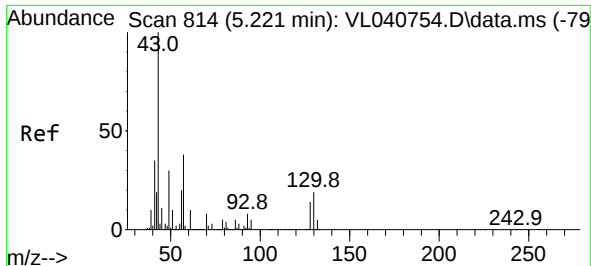
84 100

49 162.0 125.6 188.4

51 52.8 38.9 58.3

86 53.9 50.6 76.0

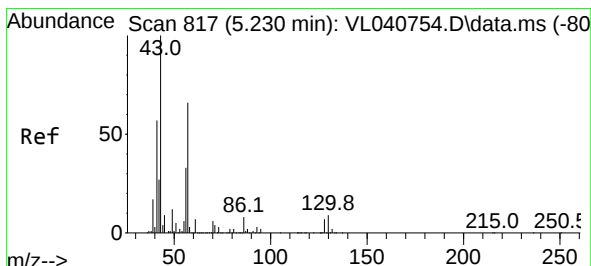
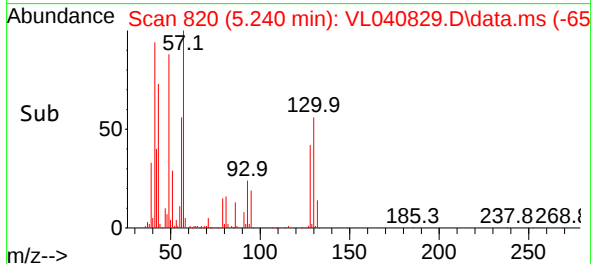
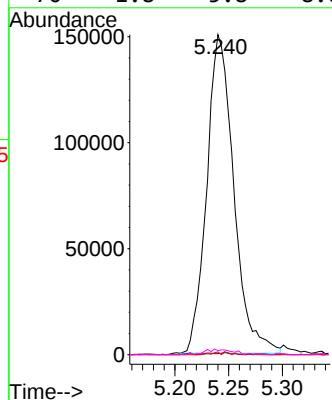
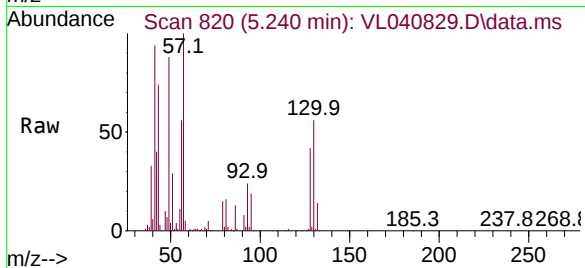




#25
Ethyl Acetate
Concen: 1.011 ppbv
RT: 5.240 min Scan# 814
Delta R.T. 0.019 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

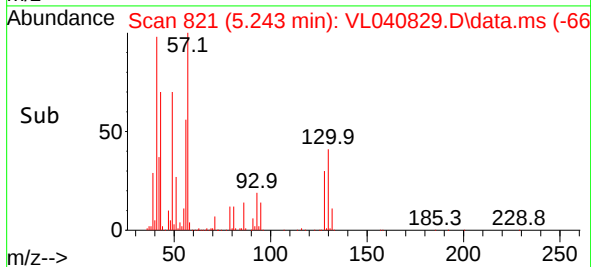
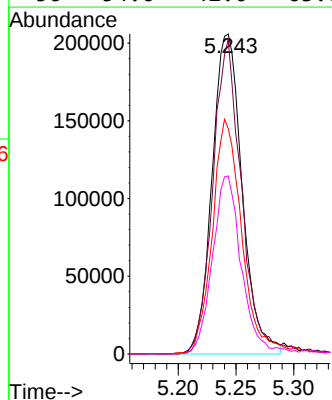
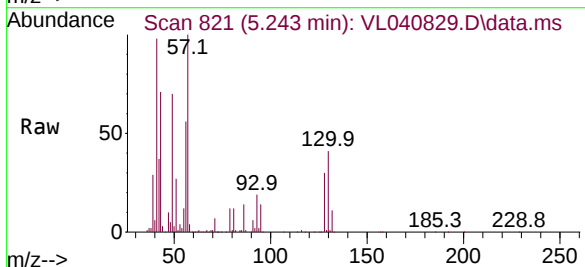
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

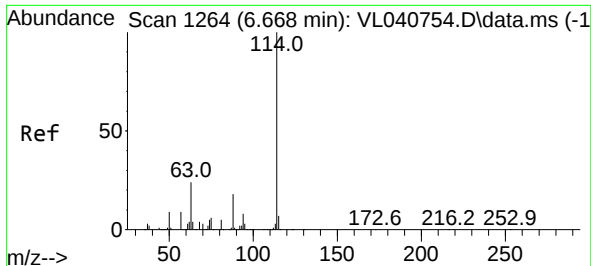
Tgt Ion: 43 Resp: 263086
Ion Ratio Lower Upper
43 100
45 0.1 8.2 12.4#
61 0.2 8.2 12.2#
70 1.8 5.8 8.6#



#26
Hexane
Concen: 3.128 ppbv
RT: 5.243 min Scan# 821
Delta R.T. 0.016 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 57 Resp: 372184
Ion Ratio Lower Upper
57 100
41 95.7 71.4 107.2
43 72.9 182.3 273.5#
56 54.6 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040829.D

Acq: 9 Nov 2023 9:59

Instrument :

MSVOA_L

ClientSampleId :

SH-IA-4DL

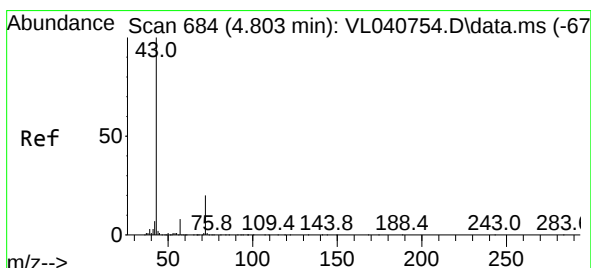
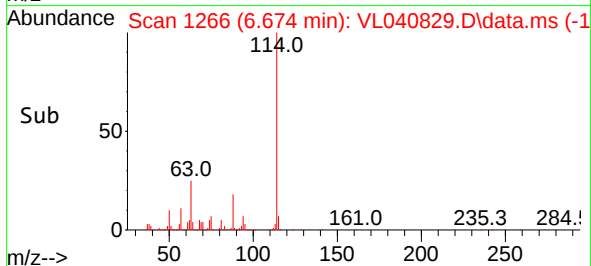
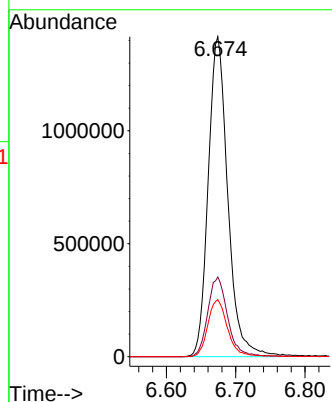
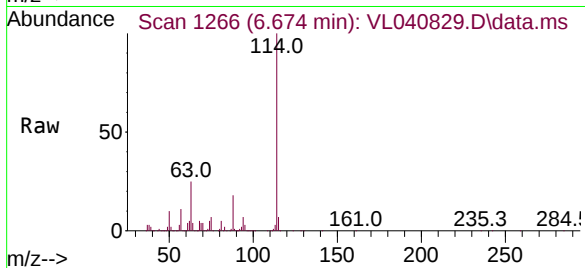
Tgt Ion:114 Resp: 2774978

Ion Ratio Lower Upper

114 100

63 25.5 19.8 29.6

88 18.1 14.2 21.2



#34

2-Butanone

Concen: 0.118 ppbv

RT: 4.835 min Scan# 694

Delta R.T. 0.029 min

Lab File: VL040829.D

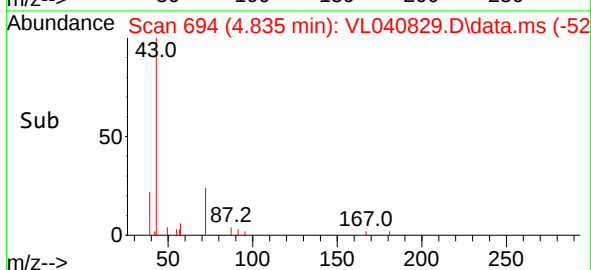
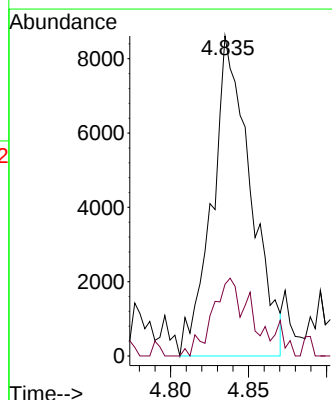
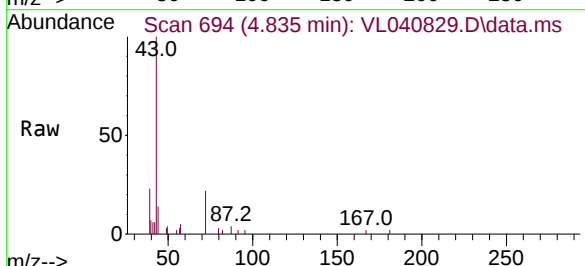
Acq: 9 Nov 2023 9:59

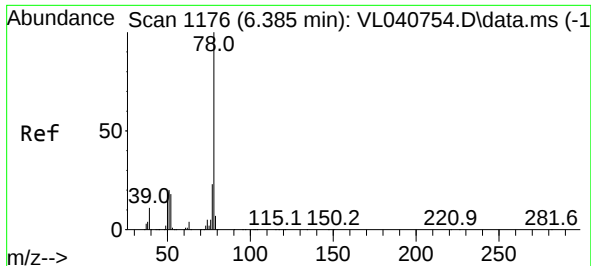
Tgt Ion: 43 Resp: 14776

Ion Ratio Lower Upper

43 100

72 27.3 16.8 25.2#

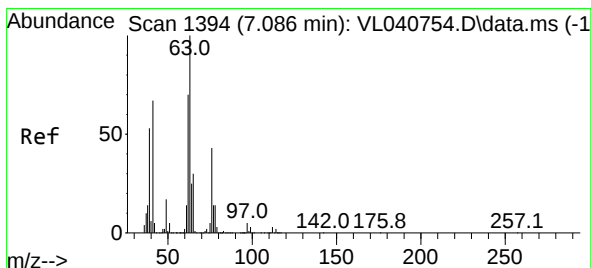
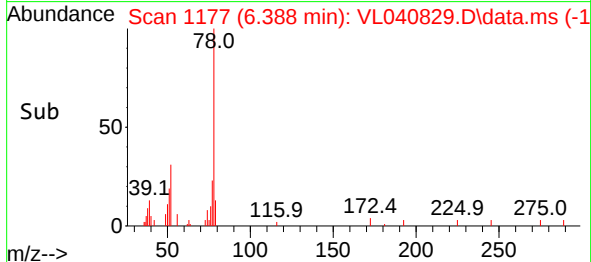
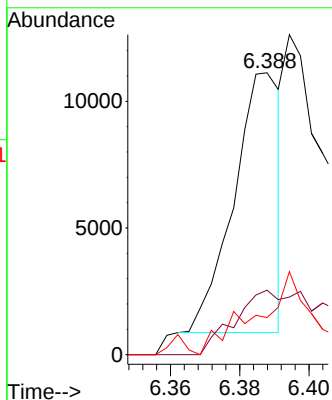
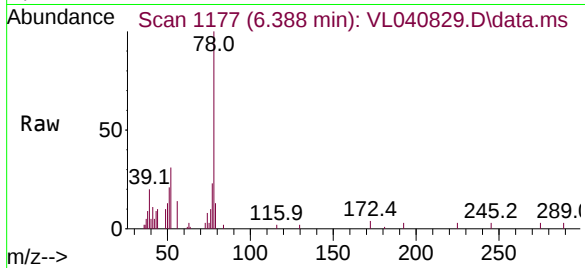




#36
Benzene
Concen: 0.045 ppbv
RT: 6.388 min Scan# 1176
Delta R.T. 0.007 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

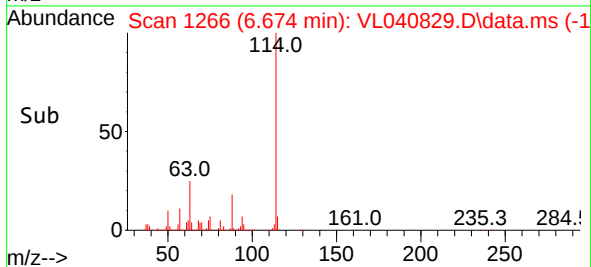
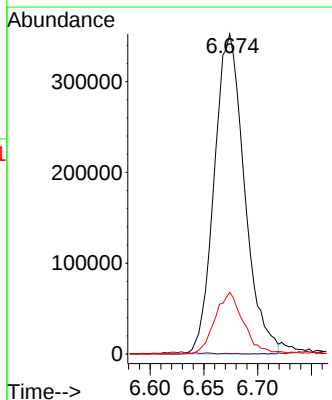
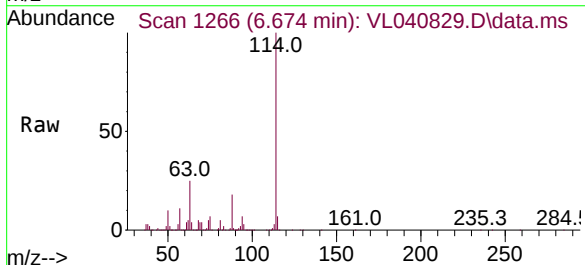
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

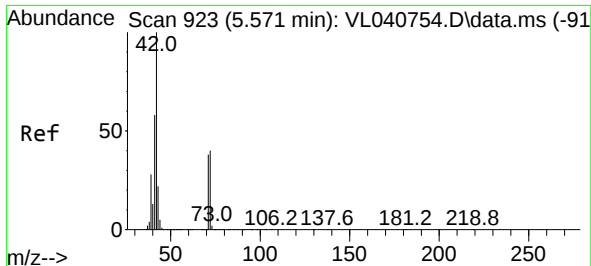
Tgt Ion: 78 Resp: 9545
Ion Ratio Lower Upper
78 100
77 24.8 18.4 27.6
50 6.6 15.0 22.4#



#39
1,2-Dichloropropane
Concen: 8.249 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.408 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 63 Resp: 687869
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 19.2 55.7 83.5#

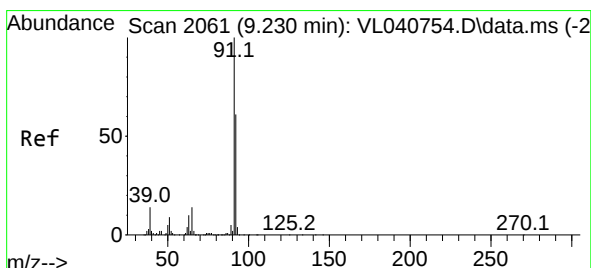
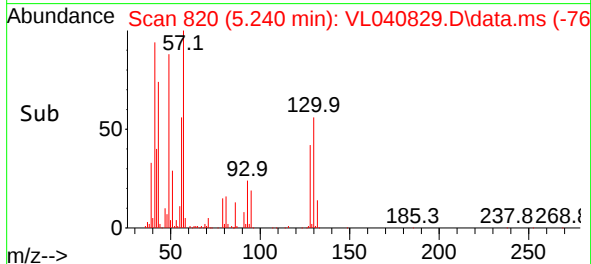
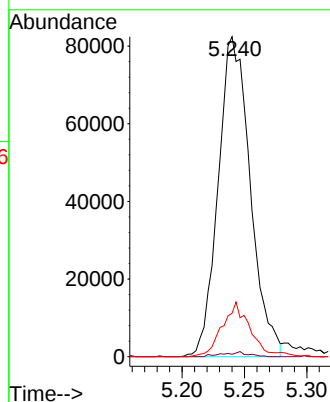
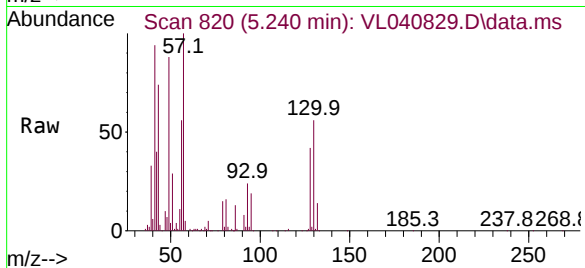




#41
Tetrahydrofuran
Concen: 1.696 ppbv
RT: 5.240 min Scan# 81
Delta R.T. -0.331 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

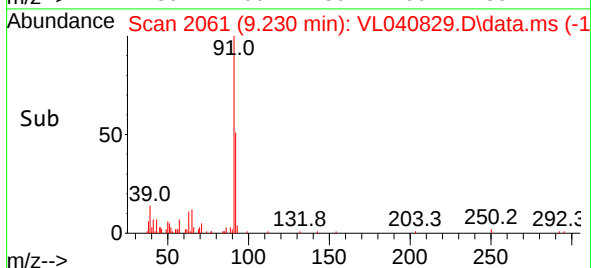
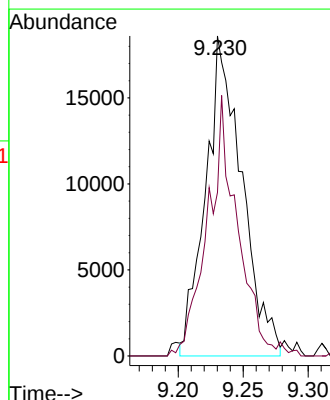
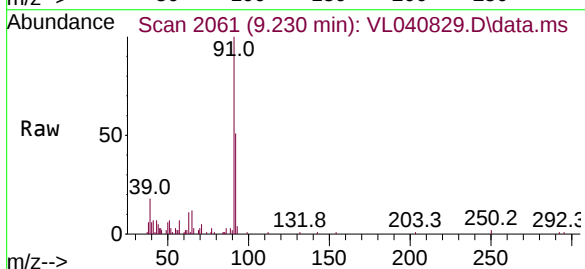
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

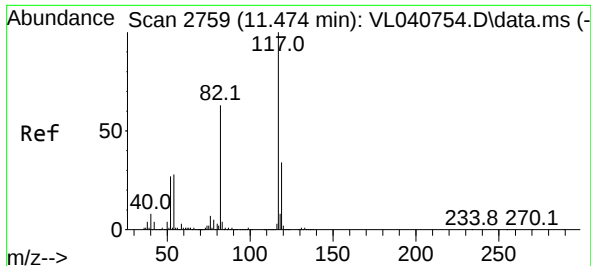
Tgt Ion: 42 Resp: 147545
Ion Ratio Lower Upper
42 100
72 1.2 31.1 46.7#
71 15.1 29.7 44.5#



#53
Toluene
Concen: 0.142 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.010 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 91 Resp: 36029
Ion Ratio Lower Upper
91 100
92 67.4 50.2 75.2

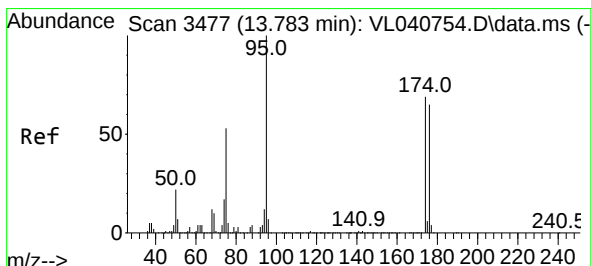
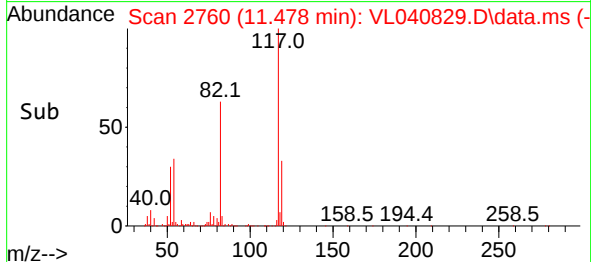
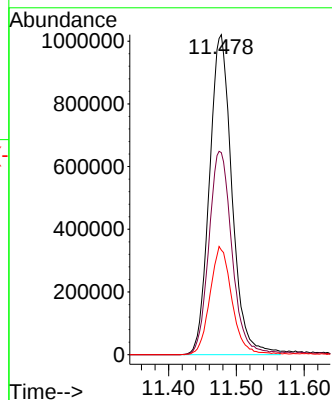
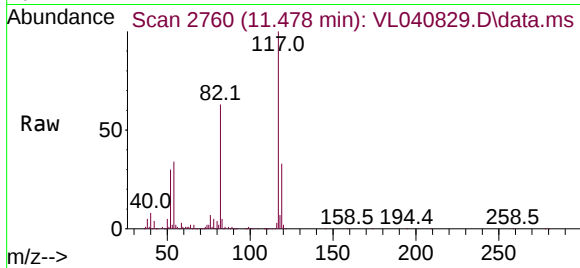




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4DL

Tgt Ion:117 Resp: 2357678
Ion Ratio Lower Upper
117 100
82 66.6 46.6 70.0
119 33.7 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.899 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.013 min
Lab File: VL040829.D
Acq: 9 Nov 2023 9:59

Tgt Ion: 95 Resp: 1717328
Ion Ratio Lower Upper
95 100
174 62.1 54.7 82.1
175 4.7 4.2 6.4

