

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040661.D
 Acq On : 6 Sep 2023 00:28
 Operator : SY/MD
 Sample : 04281-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:08:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

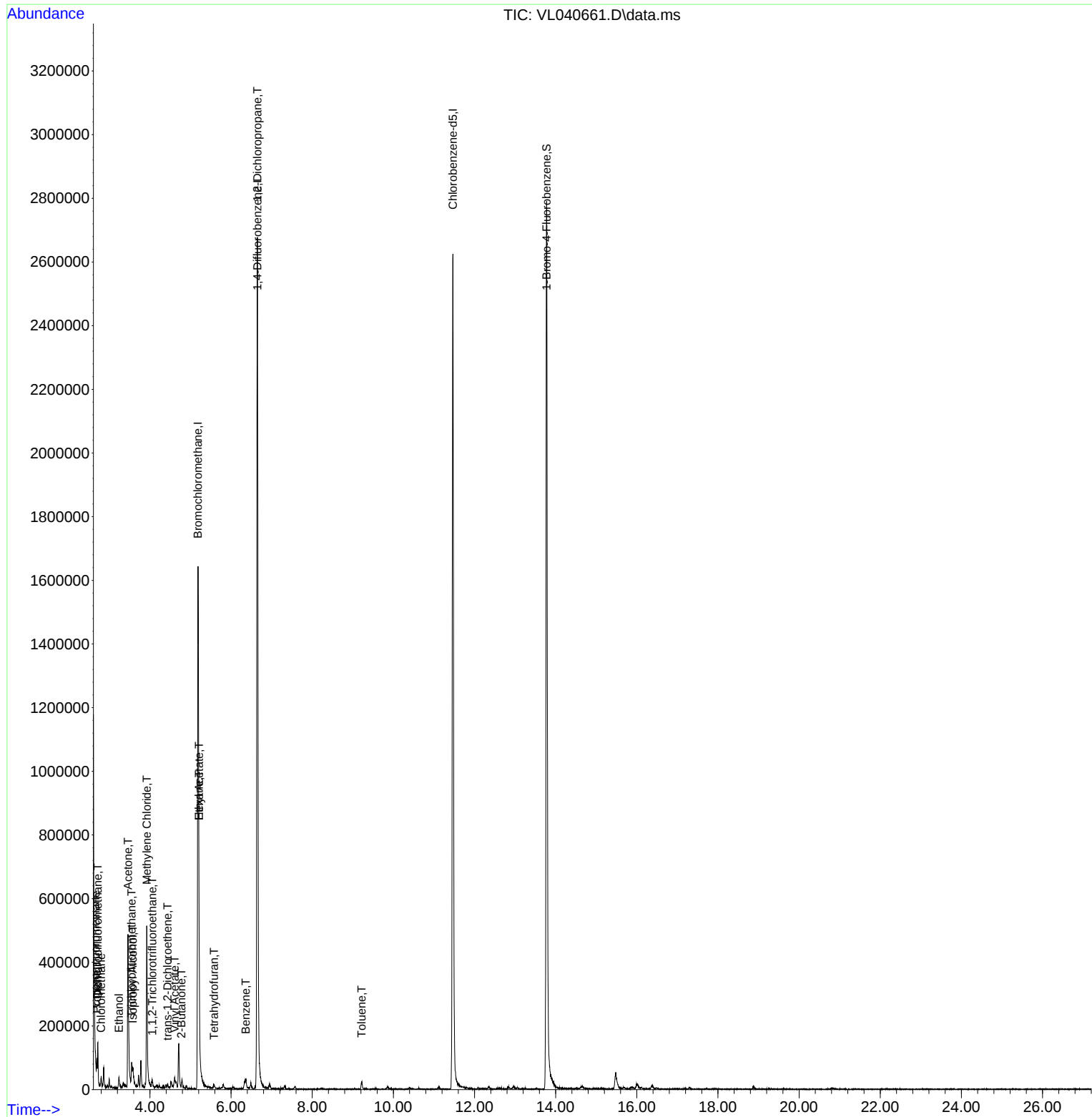
Internal Standards							
1) Bromochloromethane		5.182	49	709455	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene		6.648	114	1865644	10.000	ppbv	-0.01
55) Chlorobenzene-d5		11.468	117	1550761	10.000	ppbv	-0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.777	95	1289214	10.453	ppbv	-0.02
Spiked Amount 10.000		Range 65 - 135		Recovery	= 104.500%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.713	85	85495	0.559	ppbv	93
3) Chlorodifluoromethane		2.658	51	34850	0.299	ppbv	100
4) Chloromethane		2.796	50	24031	0.529	ppbv	92
9) Propene		2.690	41	13526	0.375	ppbv	91
11) Trichlorofluoromethane		3.549	101	40776	0.331	ppbv	99
12) 1,1,2-Trichlorotrifluo...		4.057	101	5367	0.059	ppbv #	70
13) Ethanol		3.237	45	29381	2.917	ppbv	90
15) Acetone		3.459	43	498190	5.741	ppbv	95
19) Isopropyl Alcohol		3.578	45	28136	0.511	ppbv #	93
20) Methylene Chloride		3.925	84	171815	4.052	ppbv	94
22) trans-1,2-Dichloroethene		4.436	96	2646	0.065	ppbv #	89
23) Vinyl Acetate		4.610	43	24659	0.249	ppbv #	85
25) Ethyl Acetate		5.208	43	108288	0.664	ppbv #	83
26) Hexane		5.208	57	121625	1.542	ppbv #	43
34) 2-Butanone		4.777	43	4428	0.047	ppbv #	51
36) Benzene		6.362	78	10287	0.069	ppbv #	71
39) 1,2-Dichloropropane		6.645	63	478665	8.477	ppbv #	26
41) Tetrahydrofuran		5.578	42	4081	0.077	ppbv #	81
53) Toluene		9.217	91	4946	0.031	ppbv #	1

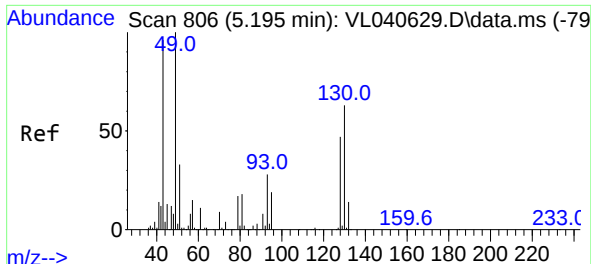
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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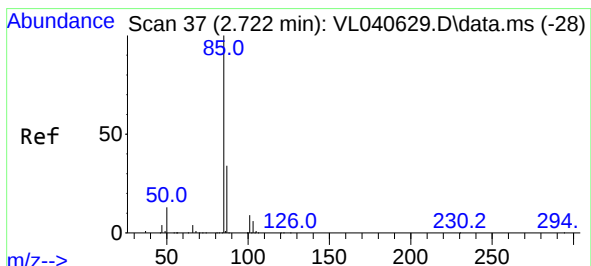
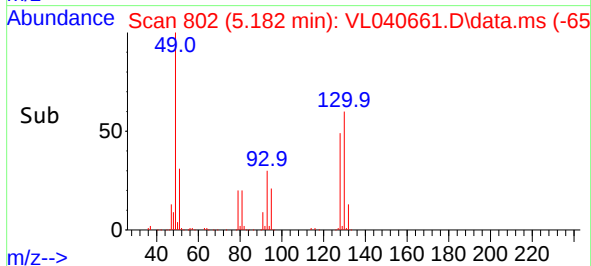
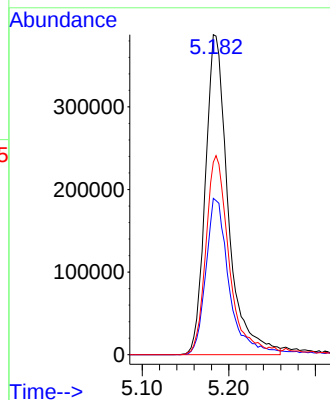
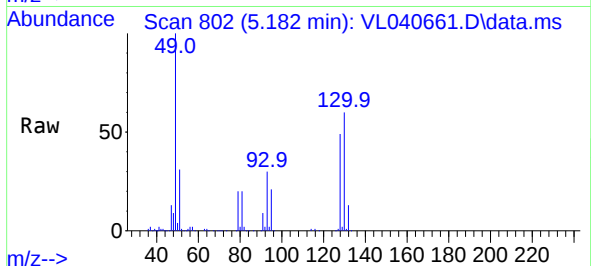




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

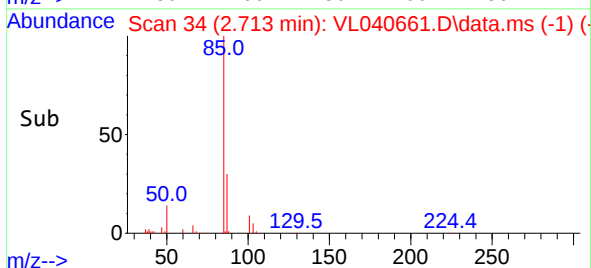
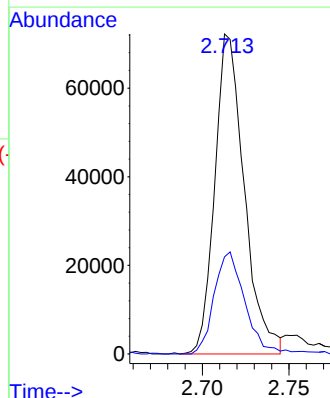
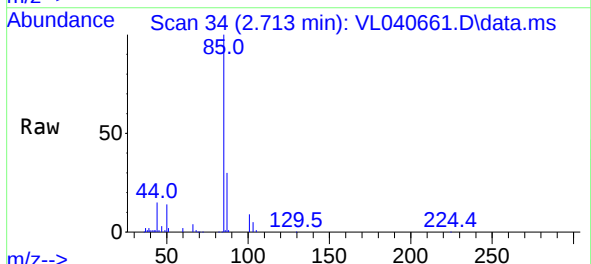
Instrument :
MSVOA_L
ClientSampleId :

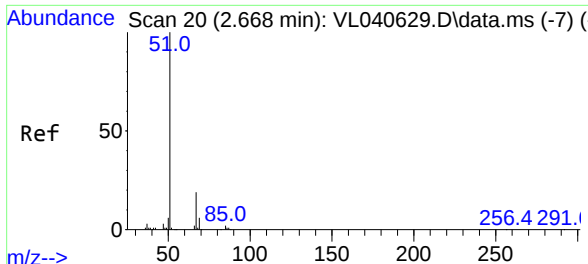
Tgt Ion: 49 Resp: 709455
Ion Ratio Lower Upper
49 100
128 51.7 24.9 74.7
130 65.8 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 0.559 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.010 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Tgt Ion: 85 Resp: 85495
Ion Ratio Lower Upper
85 100
87 30.4 27.5 41.3

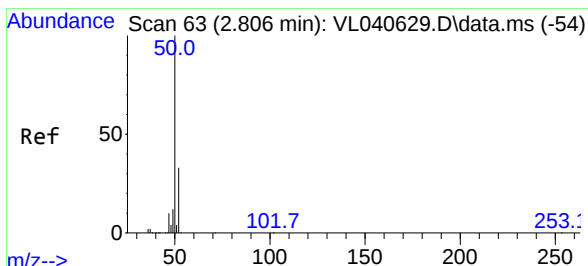
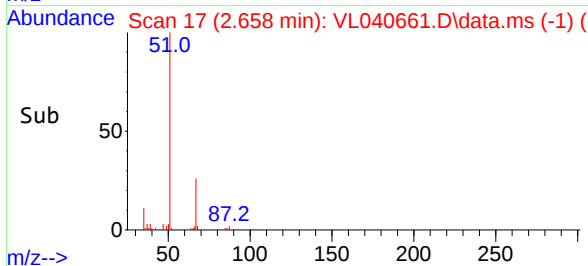
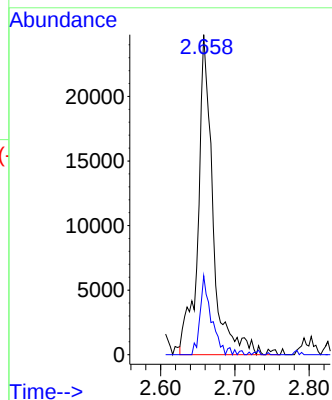
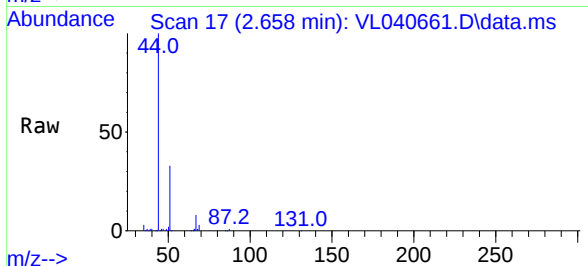




#3
Chlorodifluoromethane
Concen: 0.299 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

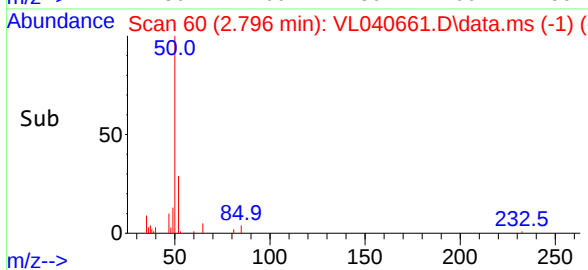
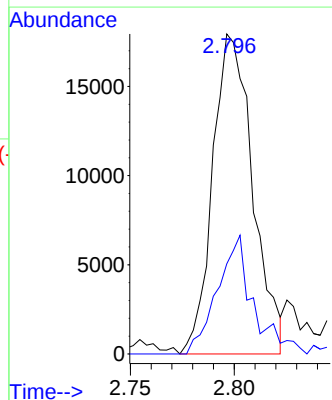
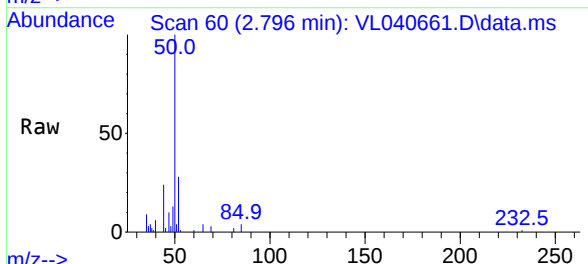
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 34850
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6

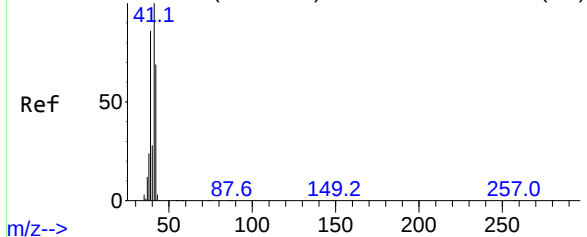


#4
Chloromethane
Concen: 0.529 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.010 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Tgt Ion: 50 Resp: 24031
Ion Ratio Lower Upper
50 100
52 28.2 26.2 39.2



Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



#9

Propene

Concen: 0.375 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Instrument :

MSVOA_L

ClientSampleId :

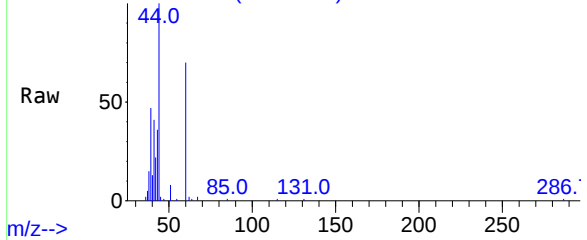
Tgt Ion: 41 Resp: 13526

Ion Ratio Lower Upper

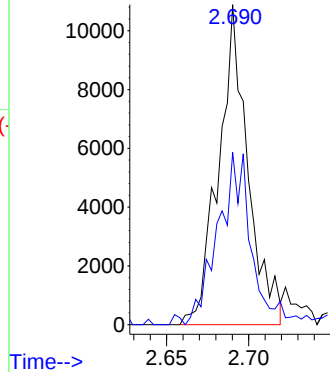
41 100

42 62.8 56.5 84.7

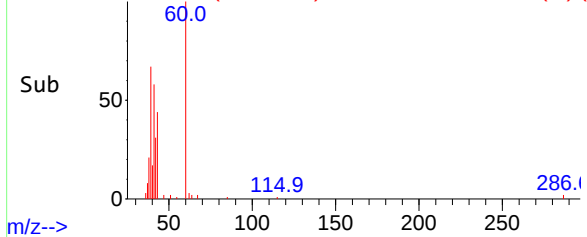
Abundance Scan 27 (2.690 min): VL040661.D\data.ms



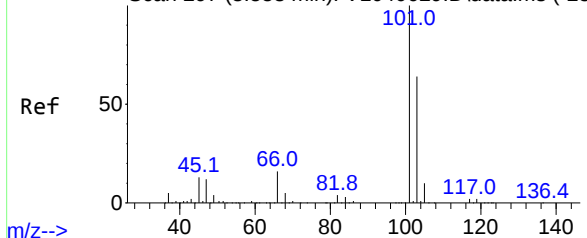
Abundance



Abundance Scan 27 (2.690 min): VL040661.D\data.ms (-1) (-1)



Abundance Scan 297 (3.558 min): VL040629.D\data.ms (-28)



#11

Trichlorofluoromethane

Concen: 0.331 ppbv

RT: 3.549 min Scan# 294

Delta R.T. -0.010 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

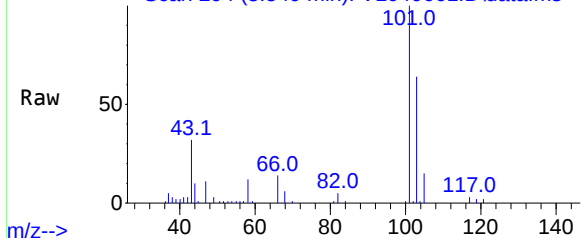
Tgt Ion: 101 Resp: 40776

Ion Ratio Lower Upper

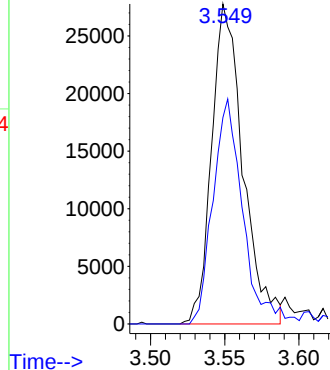
101 100

103 64.5 51.1 76.7

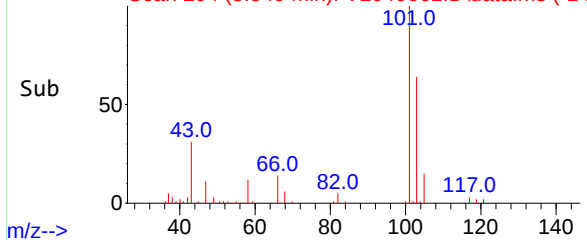
Abundance Scan 294 (3.549 min): VL040661.D\data.ms

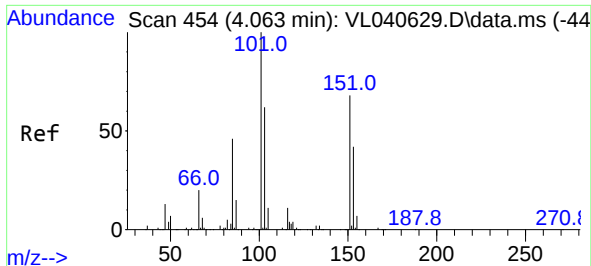


Abundance



Abundance Scan 294 (3.549 min): VL040661.D\data.ms (-14)





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.057 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Instrument :

MSVOA_L

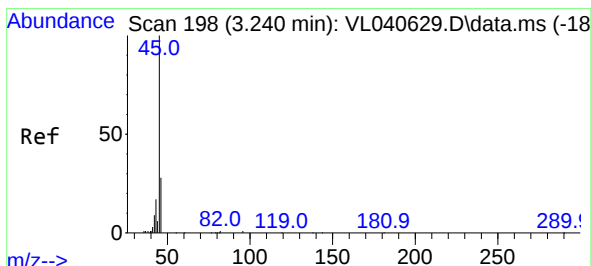
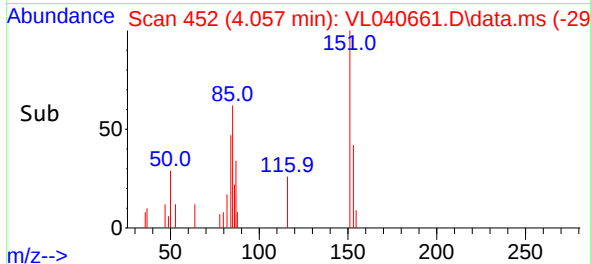
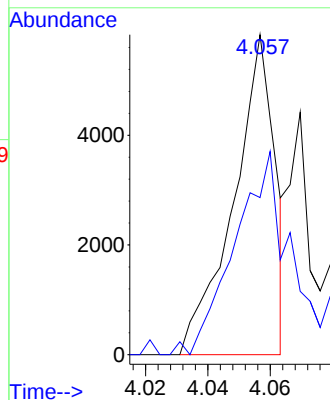
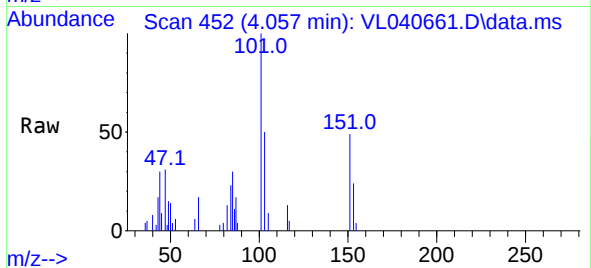
ClientSampleId :

Tgt Ion:101 Resp: 5367

Ion Ratio Lower Upper

101 100

151 95.2 56.2 84.2#



#13

Ethanol

Concen: 2.917 ppbv

RT: 3.237 min Scan# 197

Delta R.T. -0.003 min

Lab File: VL040661.D

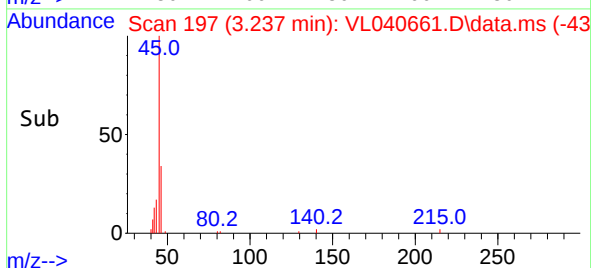
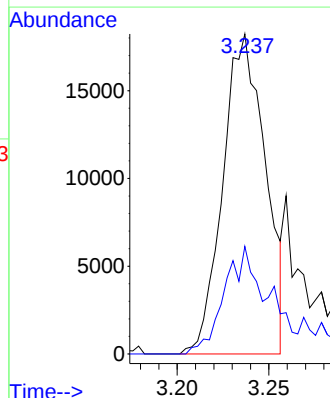
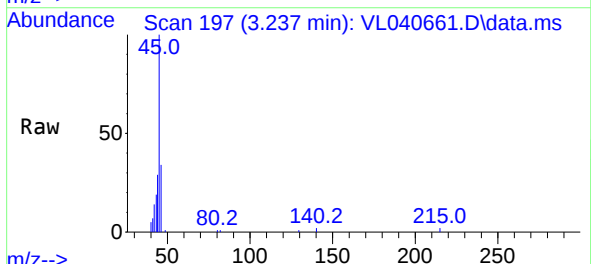
Acq: 6 Sep 2023 00:28

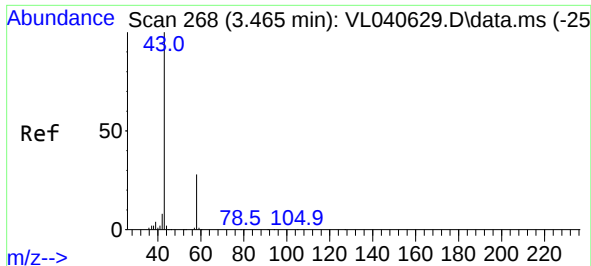
Tgt Ion: 45 Resp: 29381

Ion Ratio Lower Upper

45 100

46 41.0 14.2 56.6

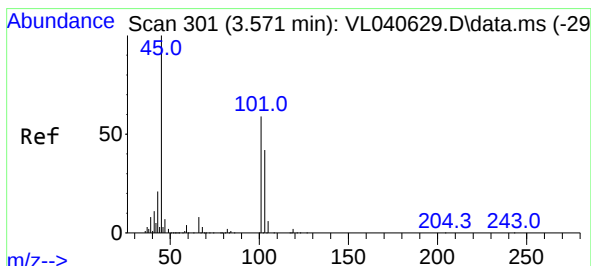
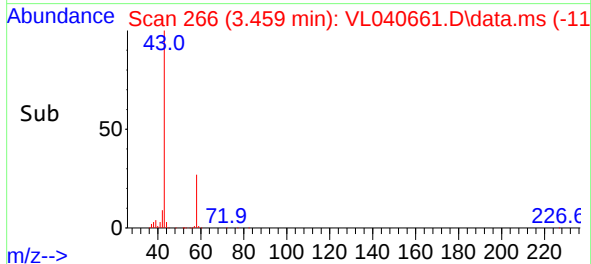
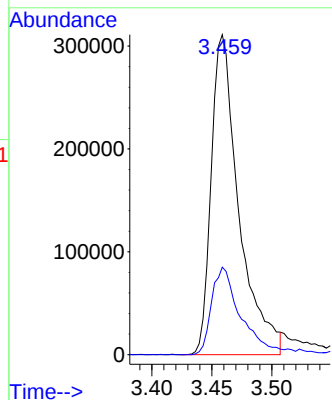
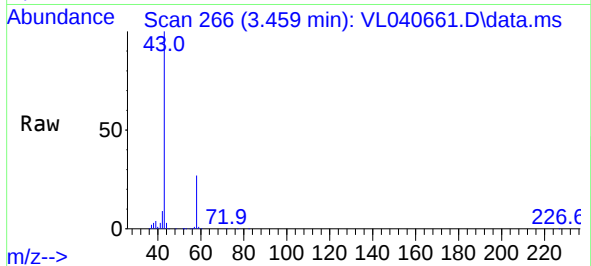




#15
Acetone
Concen: 5.741 ppbv
RT: 3.459 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

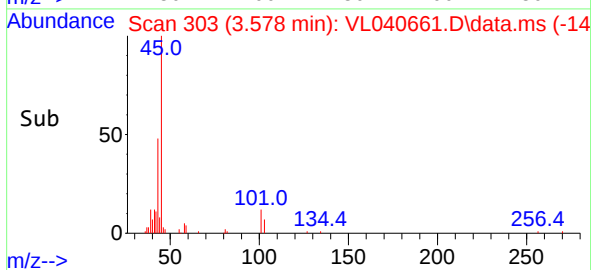
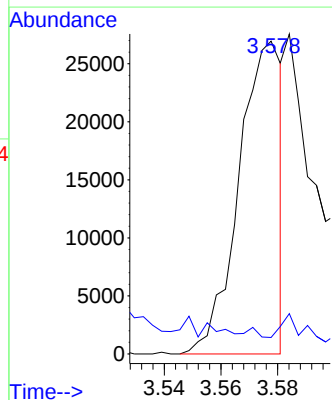
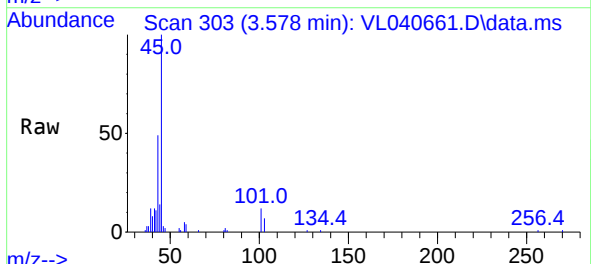
Instrument :
MSVOA_L
ClientSampleId :

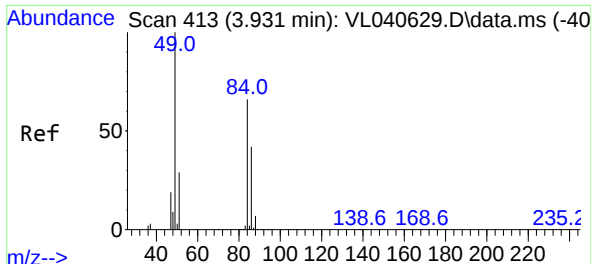
Tgt Ion: 43 Resp: 498190
Ion Ratio Lower Upper
43 100
58 30.9 22.4 33.6



#19
Isopropyl Alcohol
Concen: 0.511 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.006 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

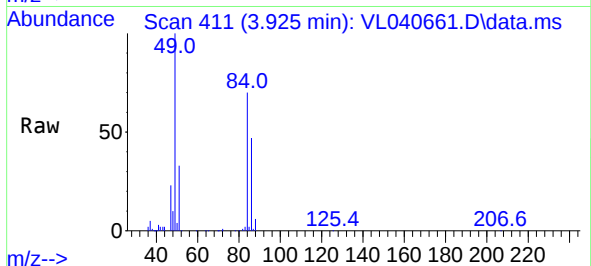
Tgt Ion: 45 Resp: 28136
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#



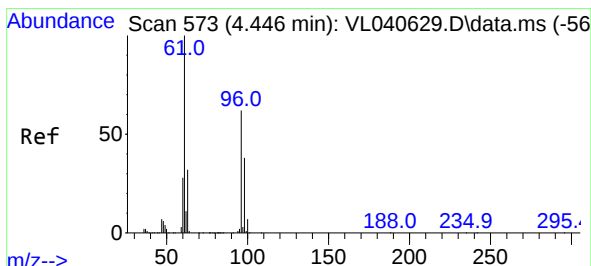
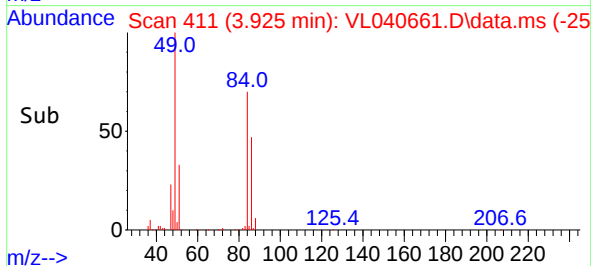
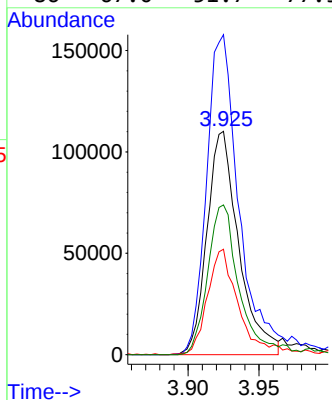


#20
Methylene Chloride
Concen: 4.052 ppbv
RT: 3.925 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Instrument :
MSVOA_L
ClientSampleId :

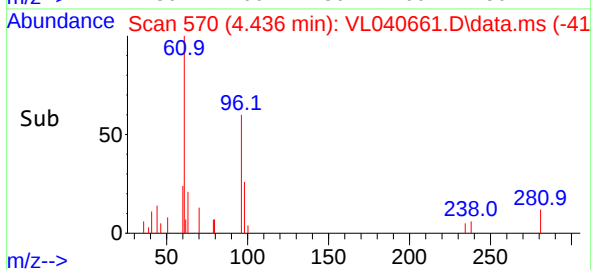
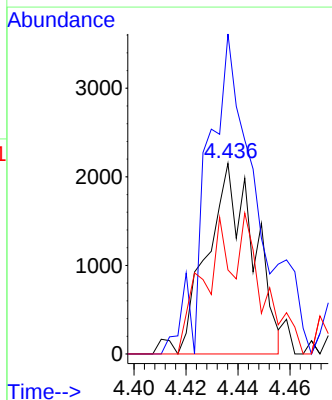
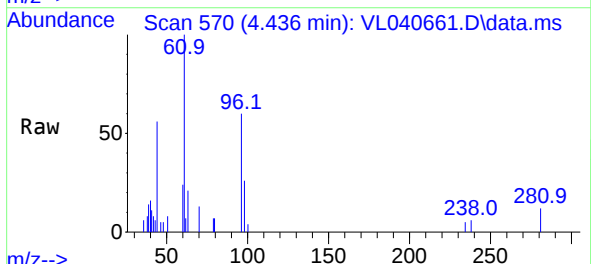


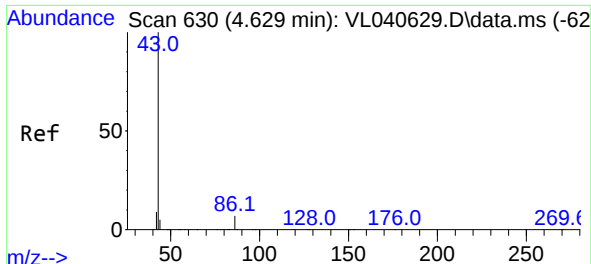
Tgt Ion: 84 Resp: 171815
Ion Ratio Lower Upper
84 100
49 142.8 122.1 183.1
51 46.9 35.4 53.2
86 67.0 51.7 77.5



#22
trans-1,2-Dichloroethene
Concen: 0.065 ppbv
RT: 4.436 min Scan# 570
Delta R.T. -0.010 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Tgt Ion: 96 Resp: 2646
Ion Ratio Lower Upper
96 100
61 169.6 128.1 192.1
98 44.1 48.1 72.1#





#23

Vinyl Acetate

Concen: 0.249 ppbv

RT: 4.610 min Scan# 61

Delta R.T. -0.019 min

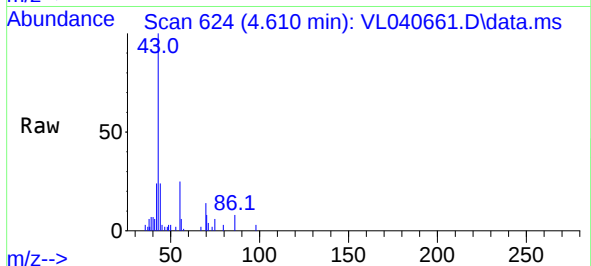
Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 24659

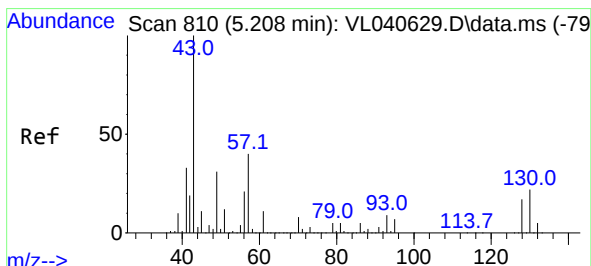
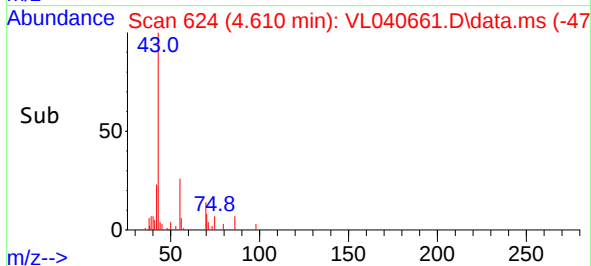
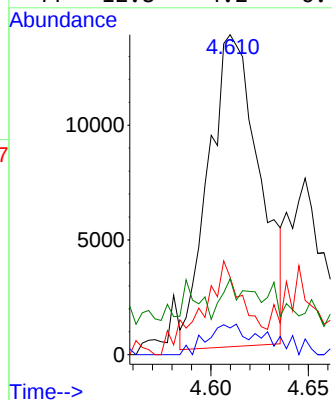
Ion Ratio Lower Upper

43 100

86 9.1 5.0 7.6#

42 15.6 7.8 11.8#

44 12.8 4.2 6.4#



#25

Ethyl Acetate

Concen: 0.664 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.000 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Tgt Ion: 43 Resp: 108288

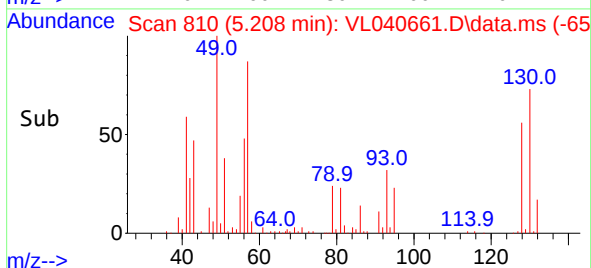
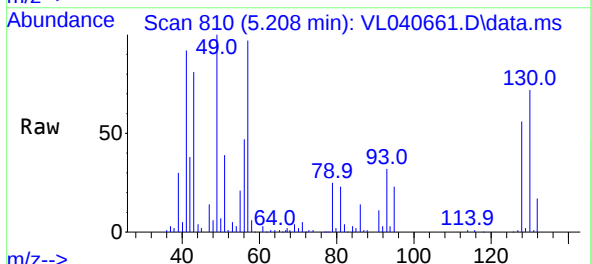
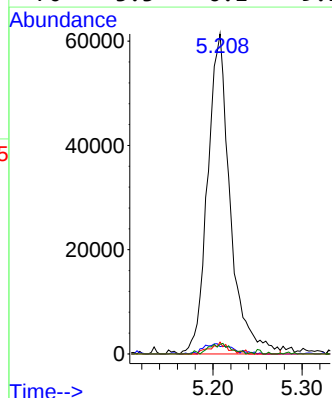
Ion Ratio Lower Upper

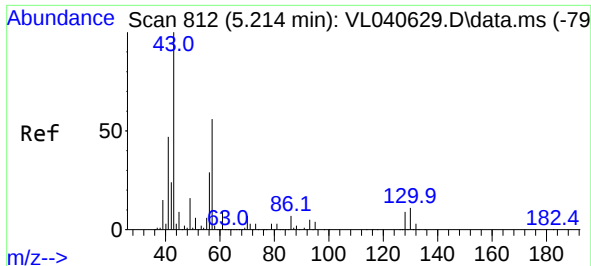
43 100

45 4.0 8.2 12.4#

61 3.0 8.3 12.5#

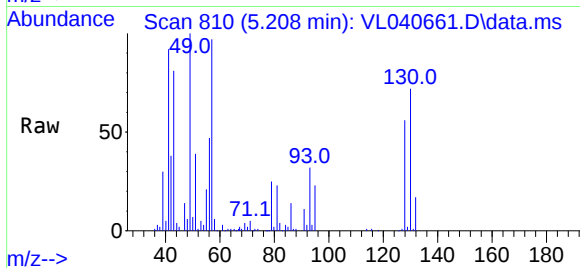
70 3.3 6.1 9.1#



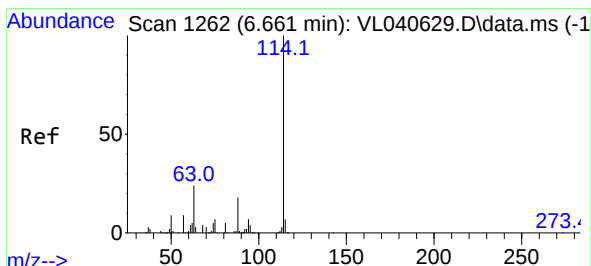
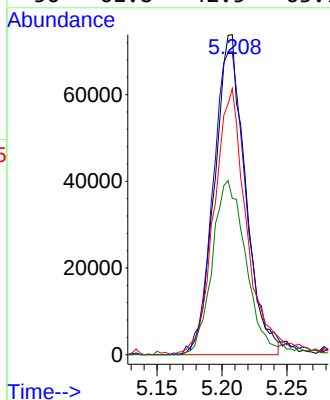
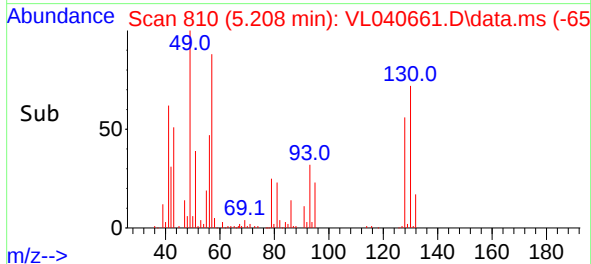


#26
Hexane
Concen: 1.542 ppbv
RT: 5.208 min Scan# 812
Delta R.T. -0.007 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

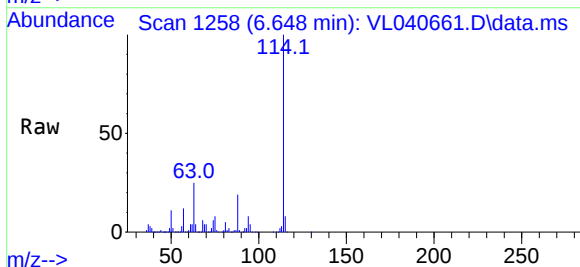
Instrument :
MSVOA_L
ClientSampleId :



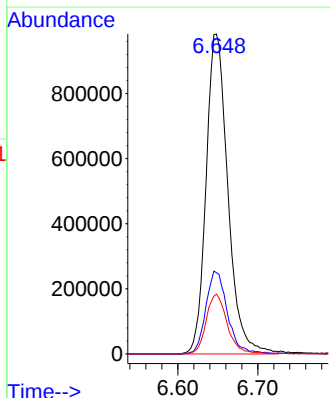
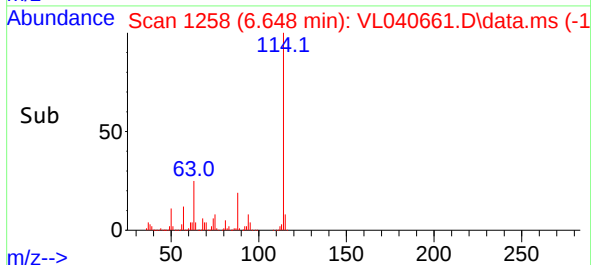
Tgt Ion: 57 Resp: 121625
Ion Ratio Lower Upper
57 100
41 105.3 69.3 103.9#
43 90.4 177.9 266.9#
56 61.8 42.5 63.7

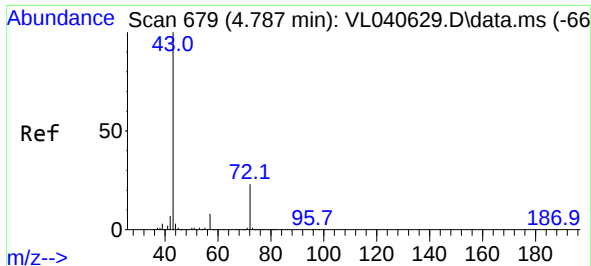


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.013 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28



Tgt Ion: 114 Resp: 1865644
Ion Ratio Lower Upper
114 100
63 25.9 20.2 30.2
88 18.2 14.1 21.1

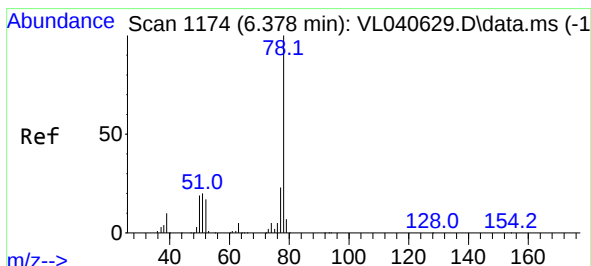
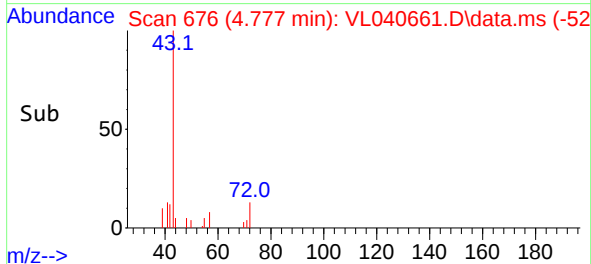
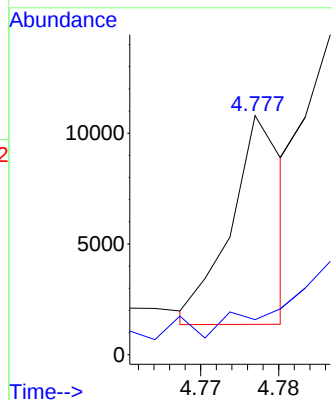
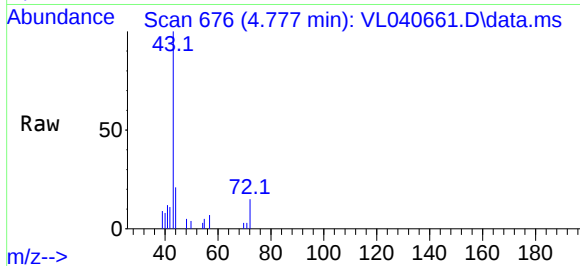




#34
2-Butanone
Concen: 0.047 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

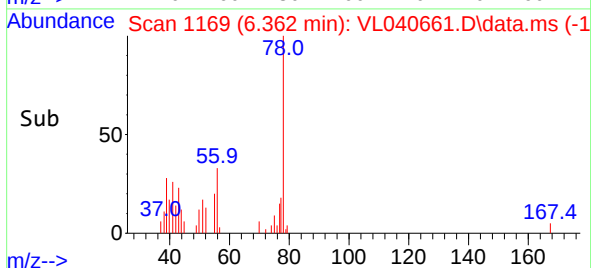
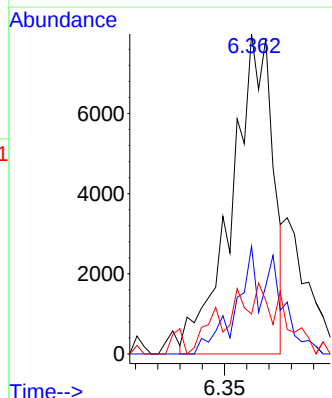
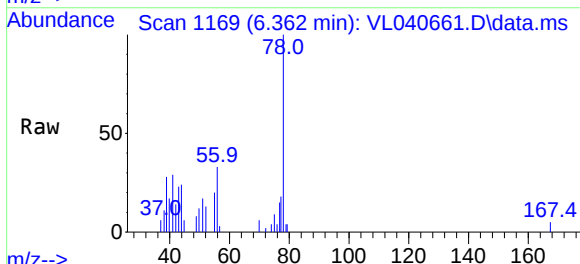
Instrument :
MSVOA_L
ClientSampleId :

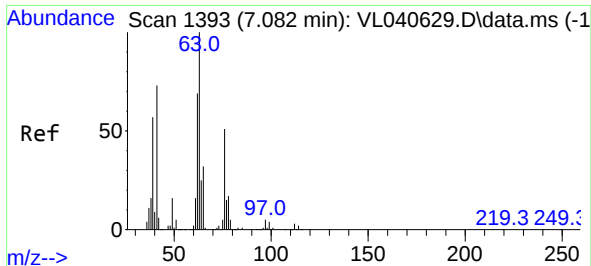
Tgt Ion: 43 Resp: 4428
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#36
Benzene
Concen: 0.069 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.016 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Tgt Ion: 78 Resp: 10287
Ion Ratio Lower Upper
78 100
77 31.9 18.2 27.2#
50 0.2 15.0 22.6#





#39

1,2-Dichloropropane

Concen: 8.477 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.437 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Instrument :

MSVOA_L

ClientSampleId :

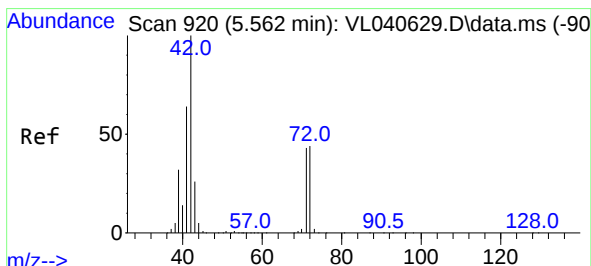
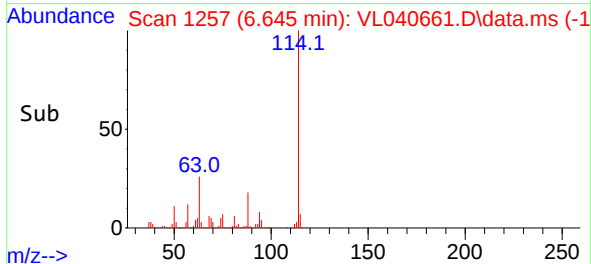
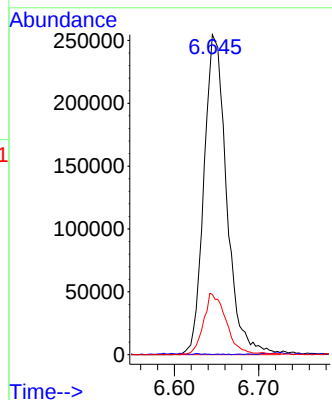
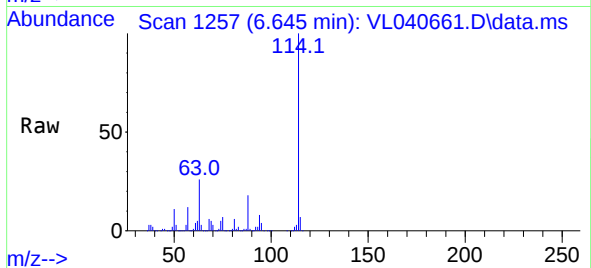
Tgt Ion: 63 Resp: 478665

Ion Ratio Lower Upper

63 100

41 0.0 58.2 87.2#

62 18.9 55.0 82.4#



#41

Tetrahydrofuran

Concen: 0.077 ppbv

RT: 5.578 min Scan# 925

Delta R.T. 0.016 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

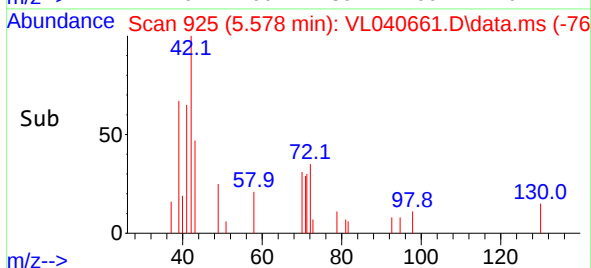
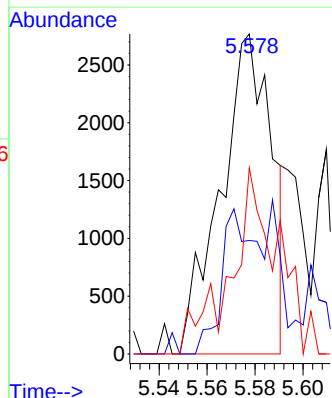
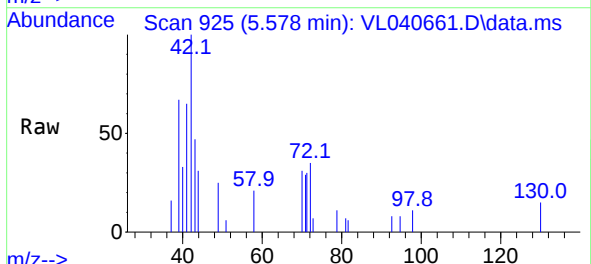
Tgt Ion: 42 Resp: 4081

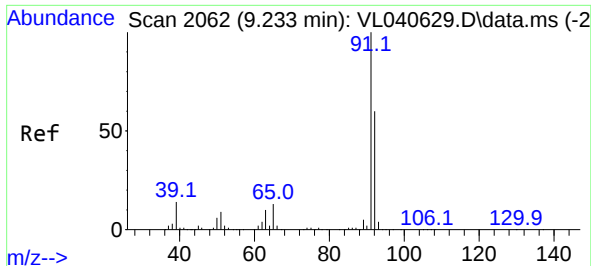
Ion Ratio Lower Upper

42 100

72 54.9 34.2 51.4#

71 54.1 33.4 50.0#





#53

Toluene

Concen: 0.031 ppbv

RT: 9.217 min Scan# 2062

Delta R.T. -0.016 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

Instrument :

MSVOA_L

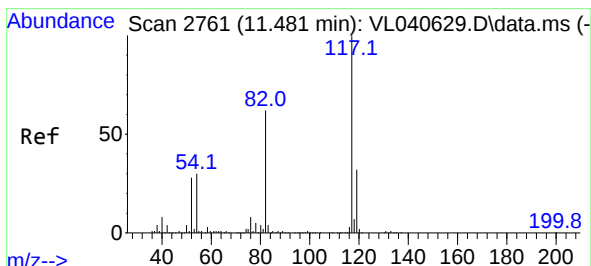
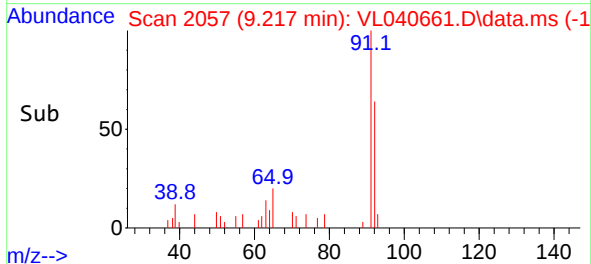
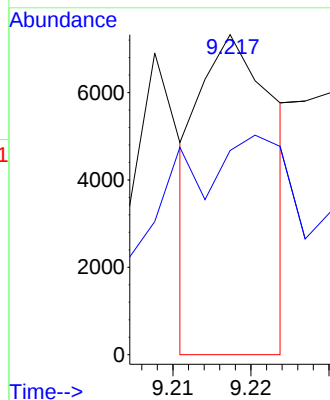
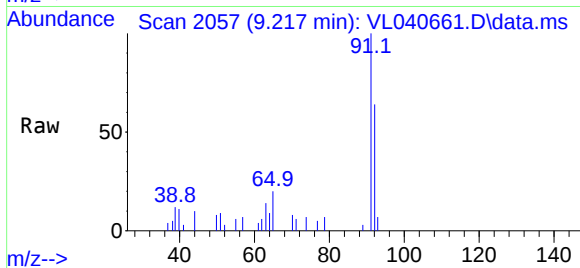
ClientSampleId :

Tgt Ion: 91 Resp: 4946

Ion Ratio Lower Upper

91 100

92 192.0 48.0 72.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. -0.013 min

Lab File: VL040661.D

Acq: 6 Sep 2023 00:28

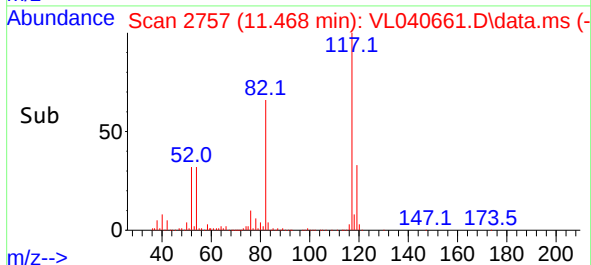
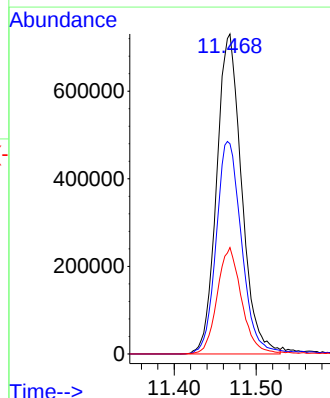
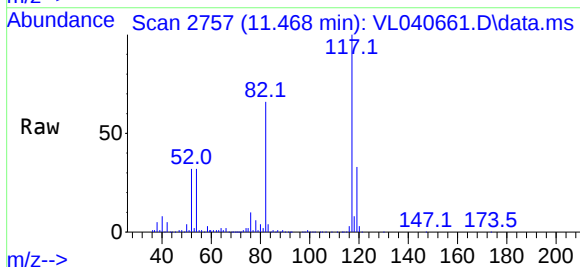
Tgt Ion: 117 Resp: 1550761

Ion Ratio Lower Upper

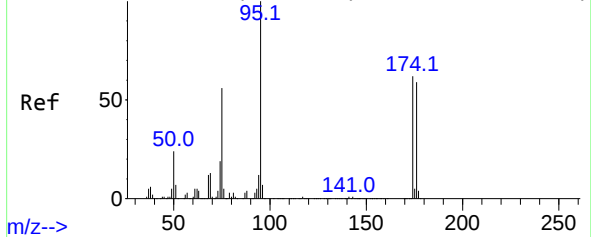
117 100

82 68.7 49.5 74.3

119 32.8 24.5 36.7



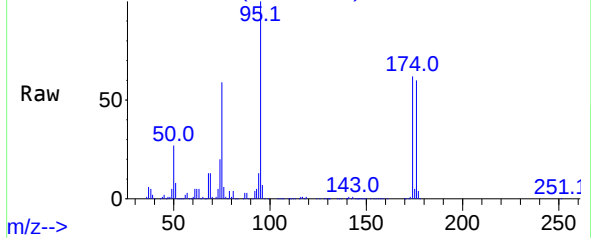
Abundance Scan 3480 (13.793 min): VL040629.D\data.ms (-



#68
1-Bromo-4-Fluorobenzene
Concen: 10.453 ppbv
RT: 13.777 min Scan# 34
Delta R.T. -0.016 min
Lab File: VL040661.D
Acq: 6 Sep 2023 00:28

Instrument :
MSVOA_L
ClientSampleId :

Abundance Scan 3475 (13.777 min): VL040661.D\data.ms



Tgt Ion: 95 Resp: 1289214
Ion Ratio Lower Upper
95 100
174 62.8 49.1 73.7
175 4.3 3.7 5.5

Abundance Scan 3475 (13.777 min): VL040661.D\data.ms (-

