

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040740.D
 Acq On : 4 Oct 2023 14:31
 Operator : SY/MD
 Sample : 04716-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 05 04:27:09 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)

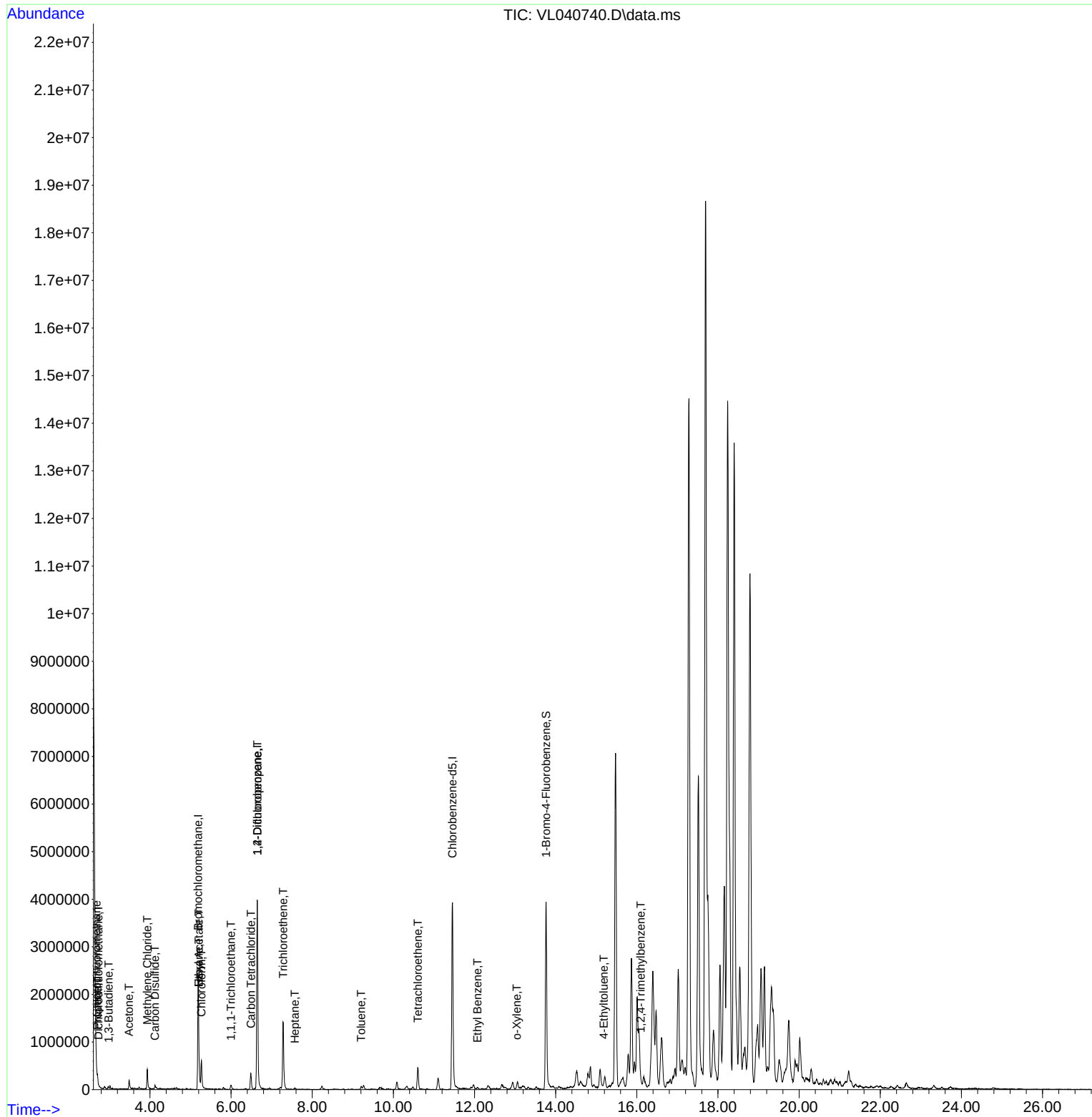
Internal Standards						
1) Bromochloromethane	5.189	49	1104013	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3182429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.455	117	2685066	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1997135	9.627	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	11409	0.047	ppbv	94
3) Chlorodifluoromethane	2.681	51	31968	0.178	ppbv	92
9) Propene	2.706	41	38674	0.746	ppbv	85
10) Heptane	7.568	43	5602	0.048	ppbv #	21
15) Acetone	3.485	43	189101	1.299	ppbv	96
16) 1,3-Butadiene	2.980	39	2709	0.043	ppbv #	9
20) Methylene Chloride	3.935	84	133140	1.699	ppbv	90
25) Ethyl Acetate	5.205	43	27983	0.119	ppbv #	74
26) Hexane	5.205	57	76495	0.689	ppbv #	42
27) Carbon Disulfide	4.124	76	86374	0.558	ppbv	98
29) Chloroform	5.272	83	389450	2.031	ppbv	96
32) 1,1,1-Trichloroethane	5.999	97	49727	0.254	ppbv	94
35) Carbon Tetrachloride	6.488	117	213501	0.977	ppbv	98
38) Trichloroethene	7.285	130	452317	5.033	ppbv	98
39) 1,2-Dichloropropane	6.645	63	744674	8.209	ppbv #	23
52) Tetrachloroethene	10.603	164	66145	0.860	ppbv	92
53) Toluene	9.208	91	27792	0.112	ppbv #	20
58) Ethyl Benzene	12.069	91	15185	0.050	ppbv	90
60) o-Xylene	13.044	91	20104	0.073	ppbv #	31
72) 4-Ethyltoluene	15.182	105	11991	0.039	ppbv #	19
74) 1,2,4-Trimethylbenzene	16.098	105	82997	0.246	ppbv #	54

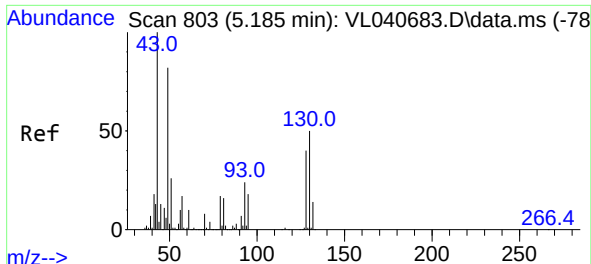
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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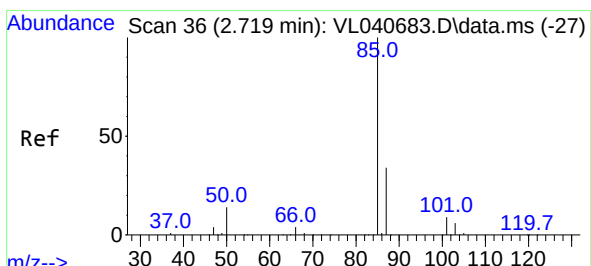
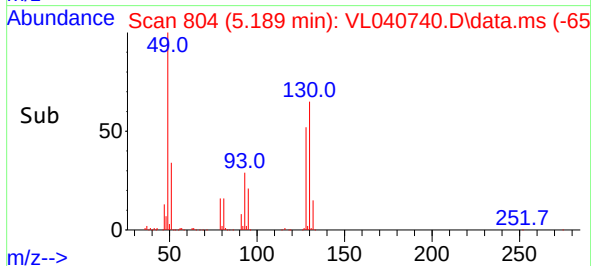
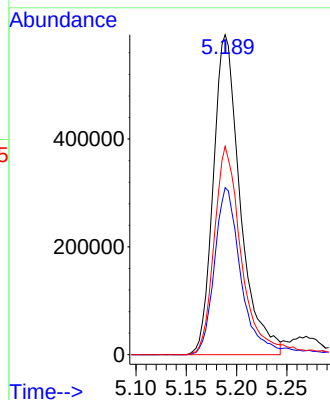
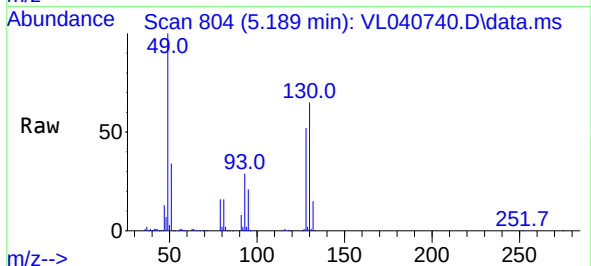




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.009 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

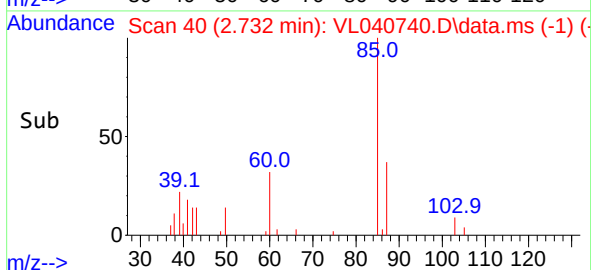
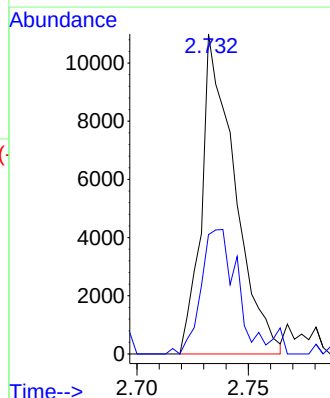
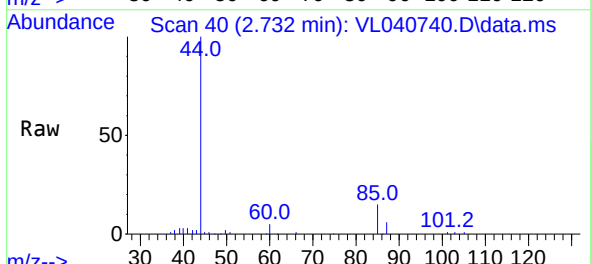
Instrument :
MSVOA_L
ClientSampleId :

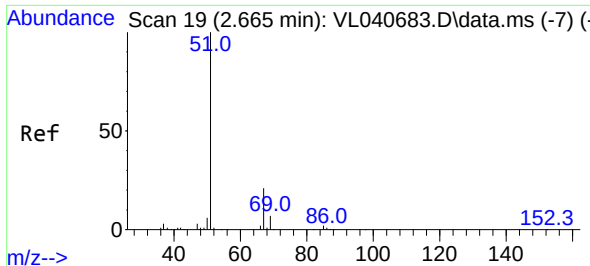
Tgt Ion: 49 Resp: 1104013
Ion Ratio Lower Upper
49 100
128 54.5 25.4 76.0
130 68.9 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.047 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.000 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 85 Resp: 11409
Ion Ratio Lower Upper
85 100
87 37.3 27.2 40.8

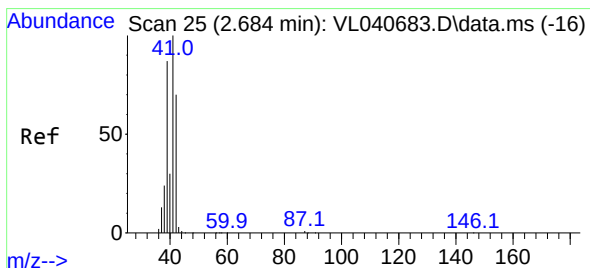
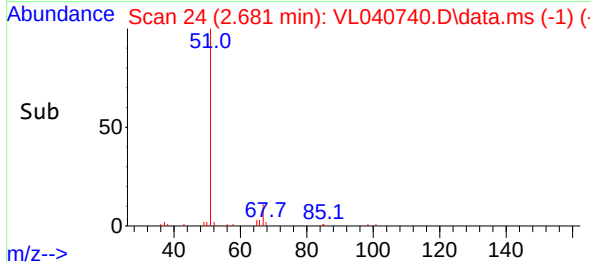
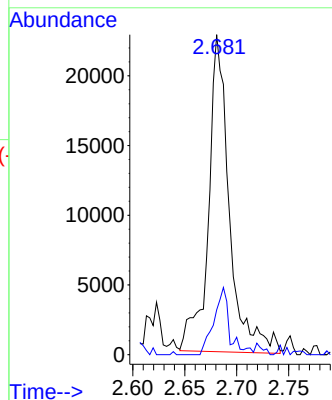
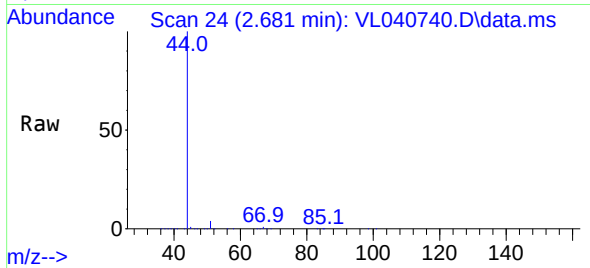




#3
Chlorodifluoromethane
Concen: 0.178 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.003 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

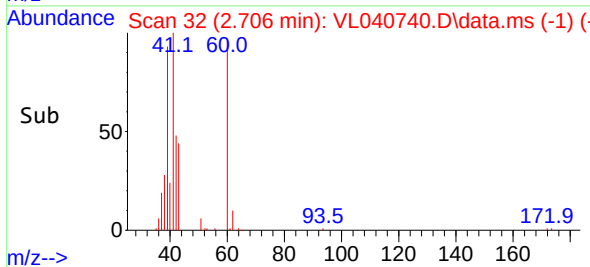
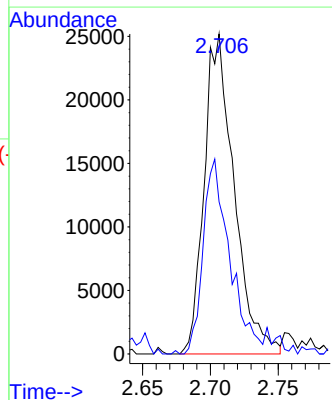
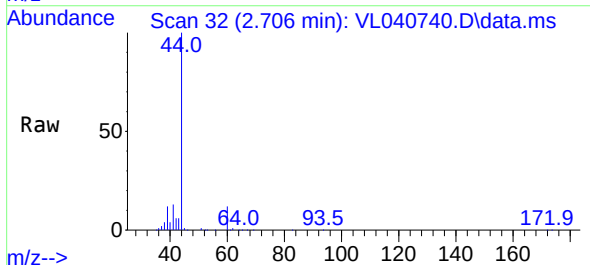
Instrument :
MSVOA_L
ClientSampleId :

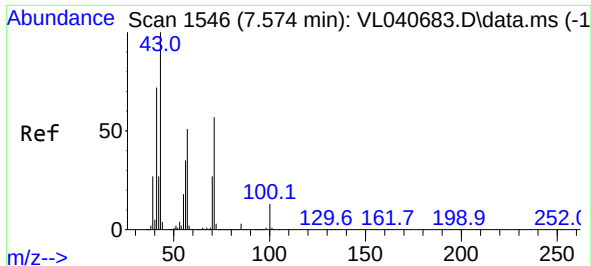
Tgt Ion: 51 Resp: 31968
Ion Ratio Lower Upper
51 100
67 17.0 16.7 25.1



#9
Propene
Concen: 0.746 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 41 Resp: 38674
Ion Ratio Lower Upper
41 100
42 58.7 56.7 85.1

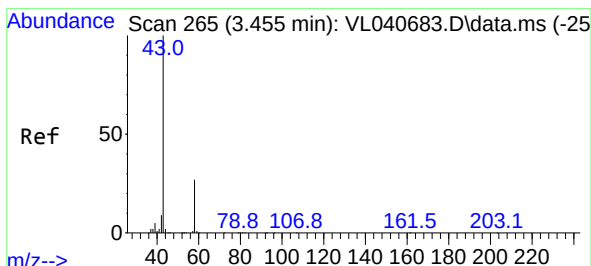
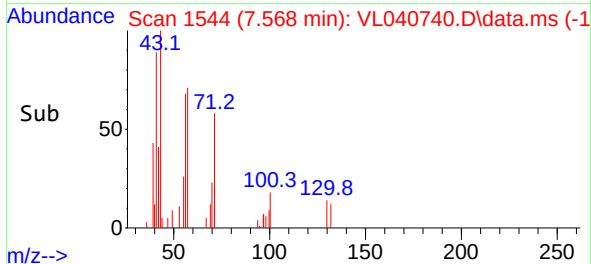
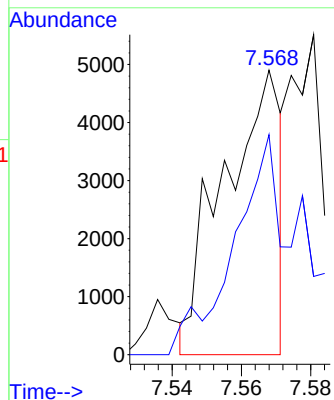
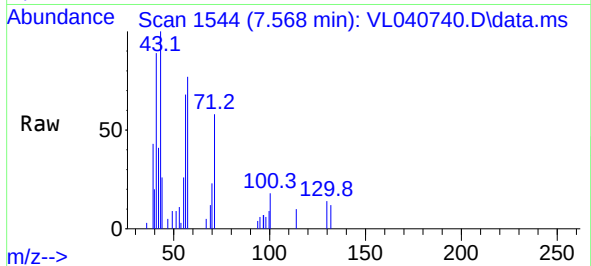




#10
Heptane
Concen: 0.048 ppbv
RT: 7.568 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

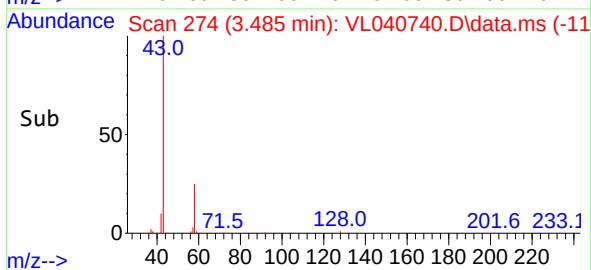
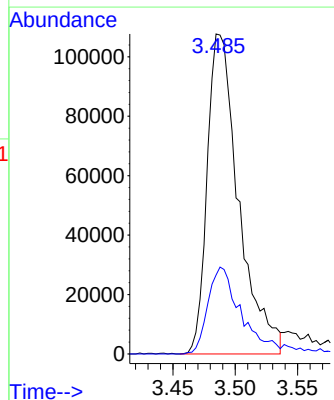
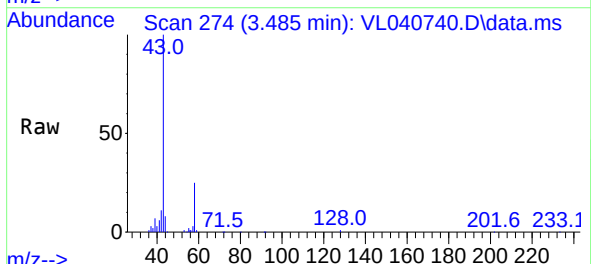
Instrument :
MSVOA_L
ClientSampleId :

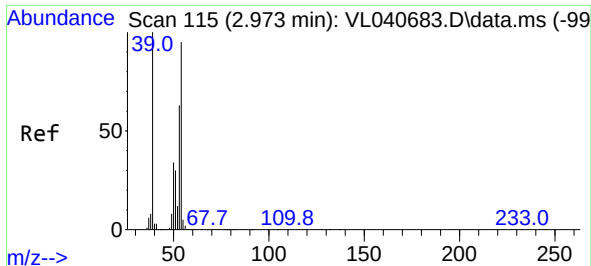
Tgt Ion: 43 Resp: 5602
Ion Ratio Lower Upper
43 100
57 107.6 41.8 62.6#



#15
Acetone
Concen: 1.299 ppbv
RT: 3.485 min Scan# 274
Delta R.T. 0.013 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 43 Resp: 189101
Ion Ratio Lower Upper
43 100
58 30.5 22.6 34.0





#16

1,3-Butadiene

Concen: 0.043 ppbv

RT: 2.980 min Scan# 115

Delta R.T. -0.009 min

Lab File: VL040740.D

Acq: 4 Oct 2023 14:31

Instrument :

MSVOA_L

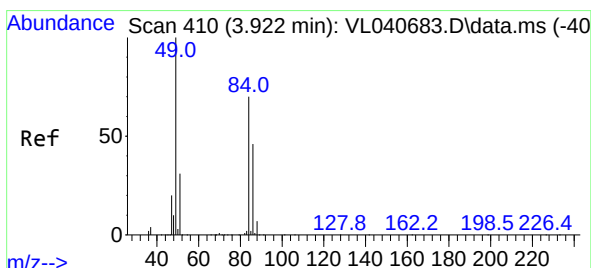
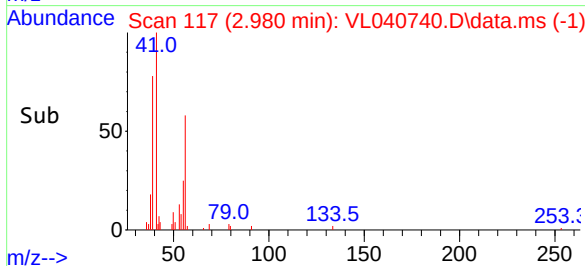
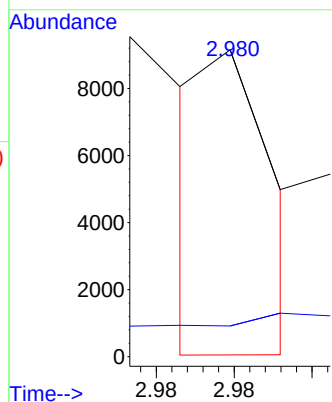
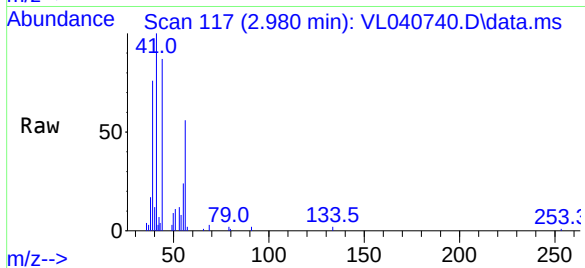
ClientSampleId :

Tgt Ion: 39 Resp: 2709

Ion Ratio Lower Upper

39 100

54 0.0 64.8 97.2#



#20

Methylene Chloride

Concen: 1.699 ppbv

RT: 3.935 min Scan# 414

Delta R.T. -0.003 min

Lab File: VL040740.D

Acq: 4 Oct 2023 14:31

Tgt Ion: 84 Resp: 133140

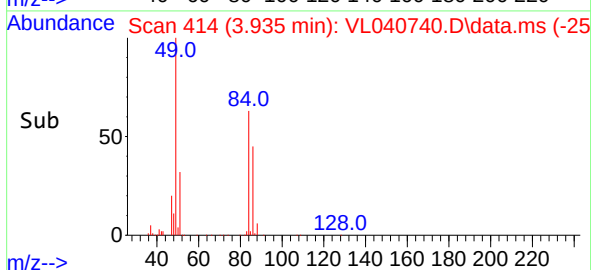
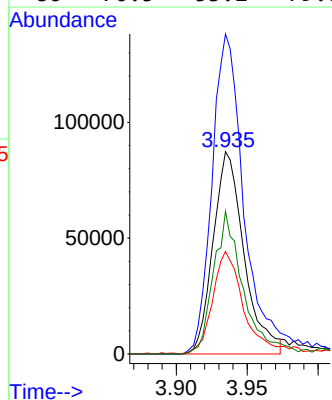
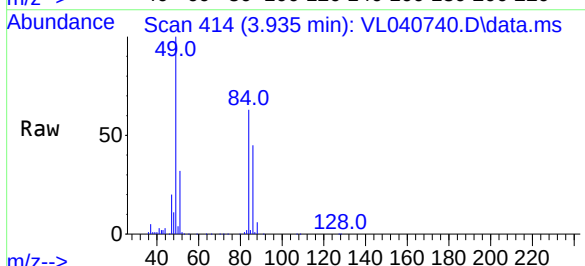
Ion Ratio Lower Upper

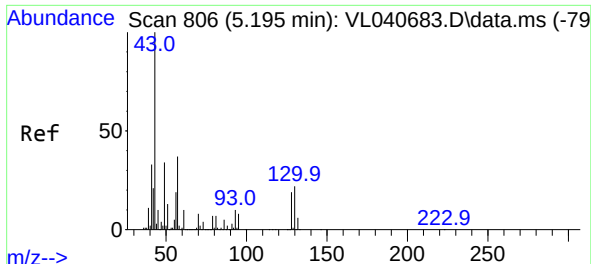
84 100

49 158.0 114.4 171.6

51 50.7 35.5 53.3

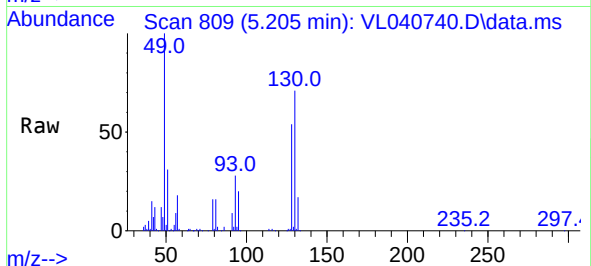
86 70.5 53.2 79.8





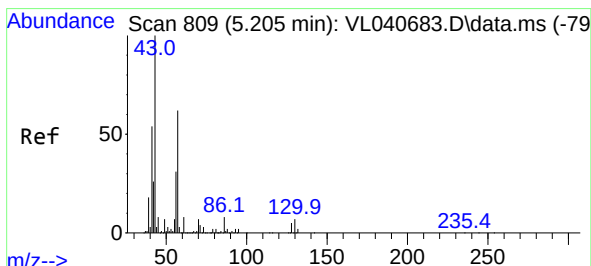
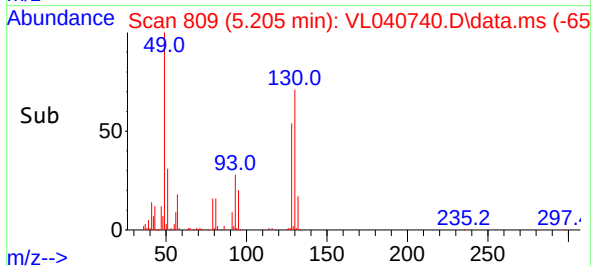
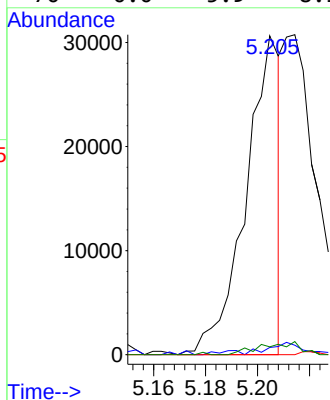
#25
Ethyl Acetate
Concen: 0.119 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.006 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 27983

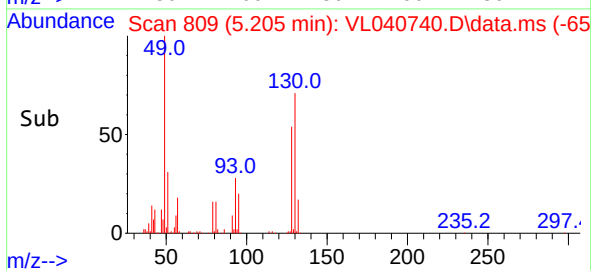
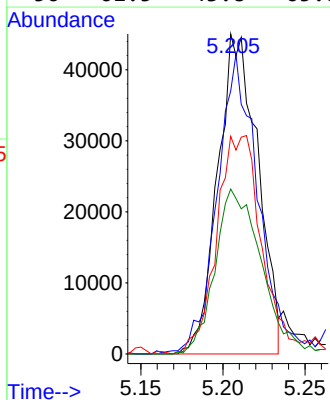
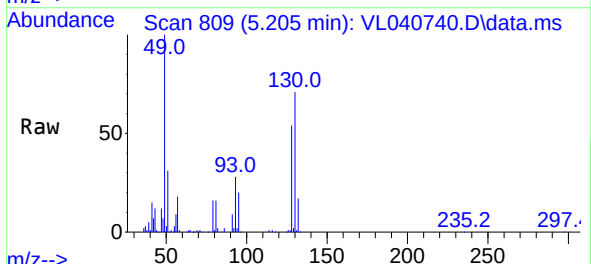
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	8.2	12.4#
70	0.0	5.9	8.9#

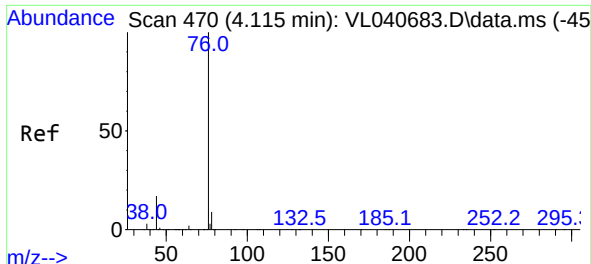


#26
Hexane
Concen: 0.689 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 57 Resp: 76495

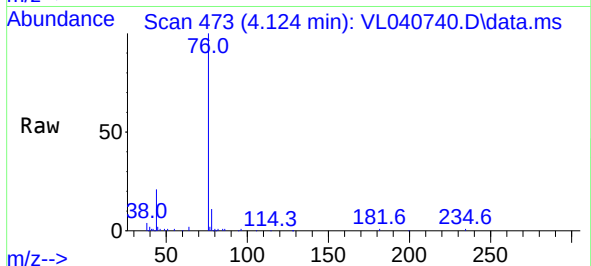
Ion	Ratio	Lower	Upper
57	100		
41	95.6	75.2	112.8
43	77.9	185.6	278.4#
56	61.5	43.8	65.8





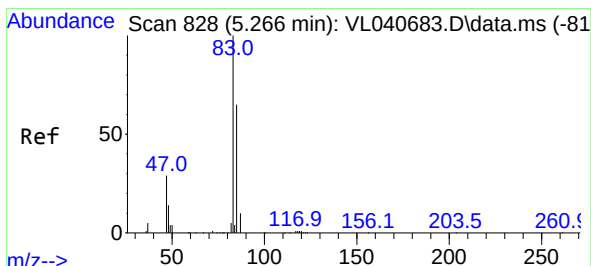
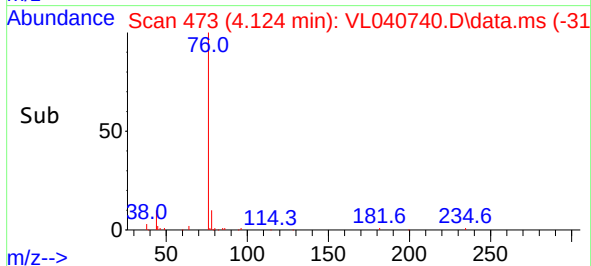
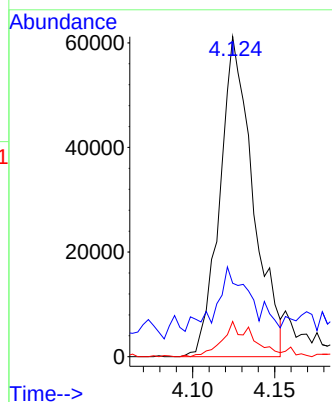
#27
Carbon Disulfide
Concen: 0.558 ppbv
RT: 4.124 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 76 Resp: 86374

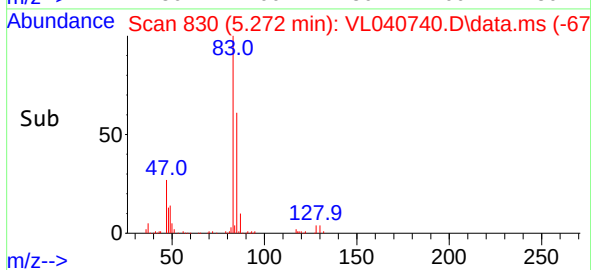
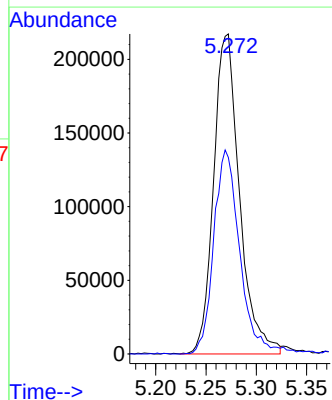
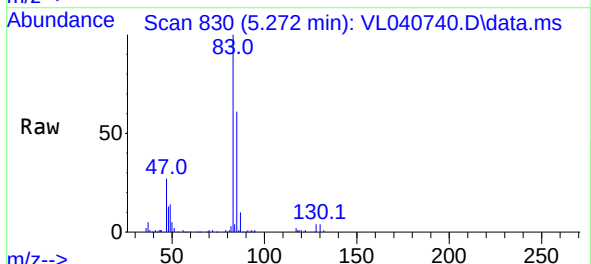
Ion	Ratio	Lower	Upper
76	100		
44	17.9	14.5	21.7
78	11.0	7.7	11.5

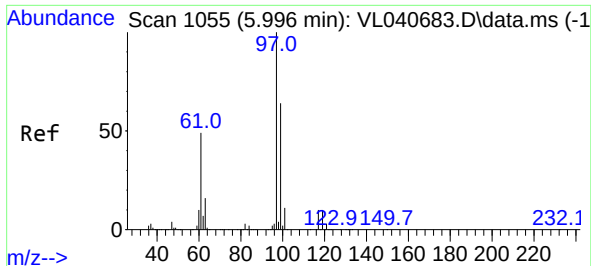


#29
Chloroform
Concen: 2.031 ppbv
RT: 5.272 min Scan# 830
Delta R.T. -0.010 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 83 Resp: 389450

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.8	77.8

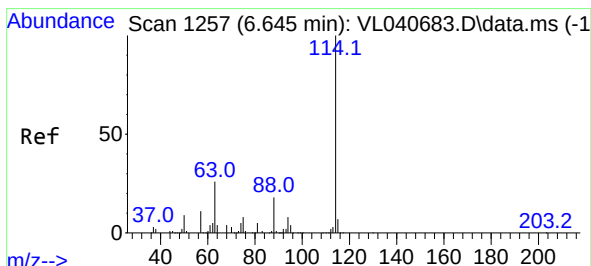
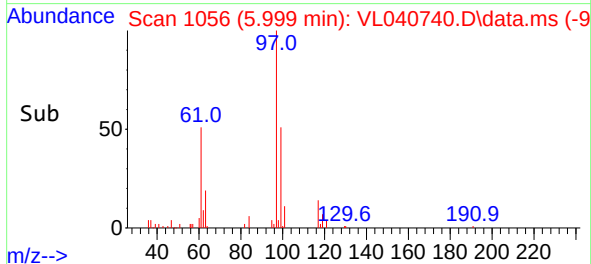
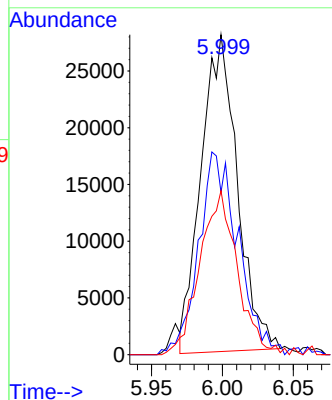
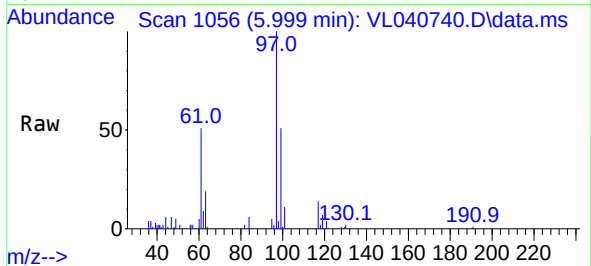




#32
1,1,1-Trichloroethane
Concen: 0.254 ppbv
RT: 5.999 min Scan# 1056
Delta R.T. -0.013 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

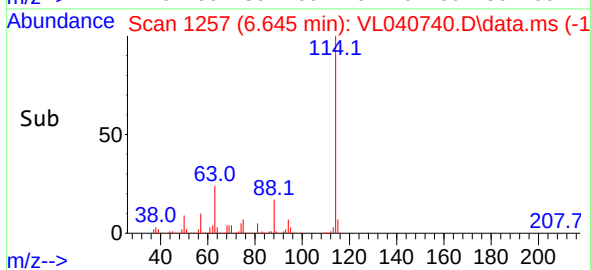
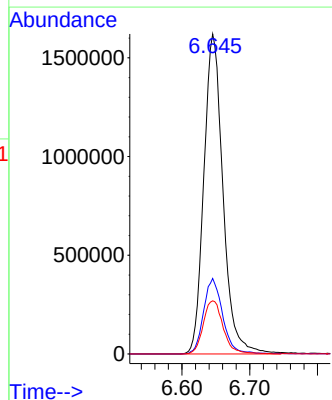
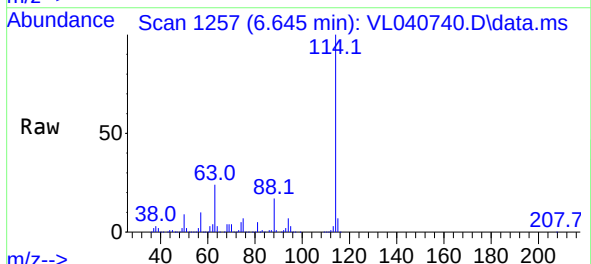
Instrument :
MSVOA_L
ClientSampleId :

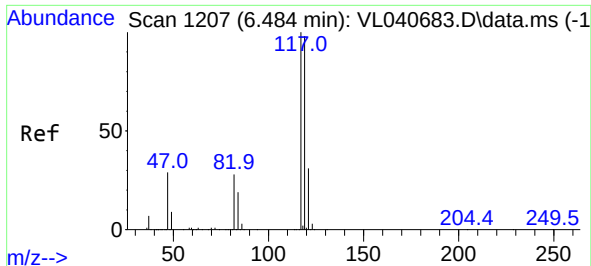
Tgt Ion: 97 Resp: 49727
Ion Ratio Lower Upper
97 100
99 70.6 52.4 78.6
61 53.3 40.2 60.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.016 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 114 Resp: 3182429
Ion Ratio Lower Upper
114 100
63 23.8 21.1 31.7
88 17.4 14.5 21.7

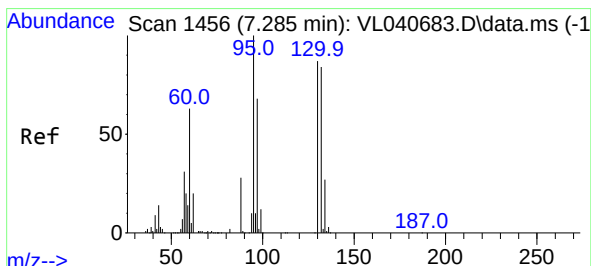
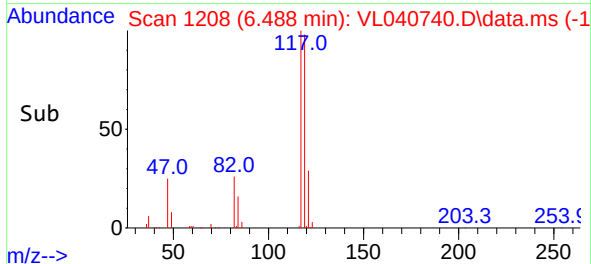
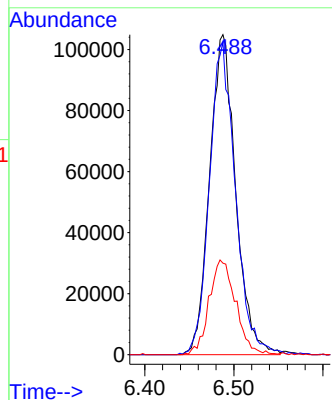
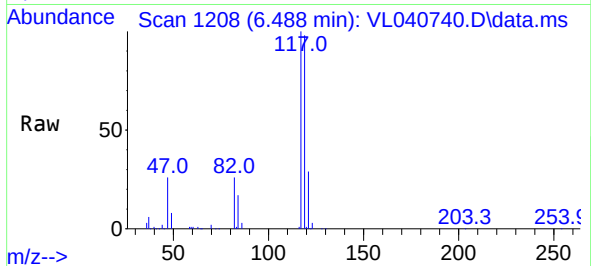




#35
Carbon Tetrachloride
Concen: 0.977 ppbv
RT: 6.488 min Scan# 117
Delta R.T. -0.016 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

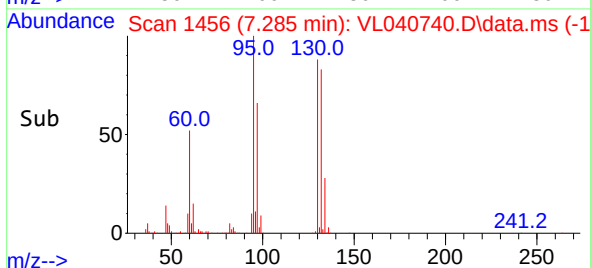
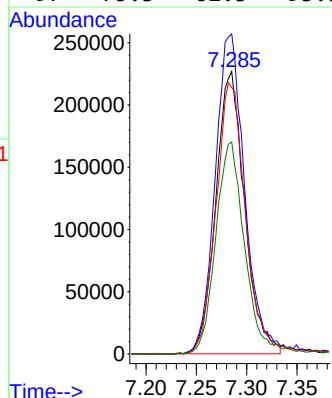
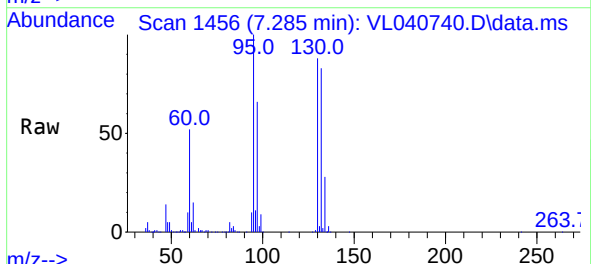
Instrument :
MSVOA_L
ClientSampleId :

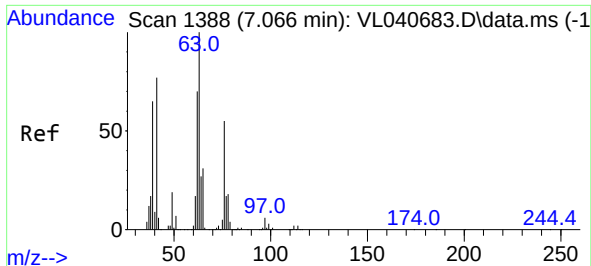
Tgt Ion:117 Resp: 213501
Ion Ratio Lower Upper
117 100
119 97.2 78.6 117.8
121 28.6 24.7 37.1



#38
Trichloroethene
Concen: 5.033 ppbv
RT: 7.285 min Scan# 1456
Delta R.T. -0.016 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion:130 Resp: 452317
Ion Ratio Lower Upper
130 100
95 113.4 91.9 137.9
132 94.2 77.3 115.9
97 75.3 62.3 93.5





#39

1,2-Dichloropropane

Concen: 8.209 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.437 min

Lab File: VL040740.D

Acq: 4 Oct 2023 14:31

Instrument :

MSVOA_L

ClientSampleId :

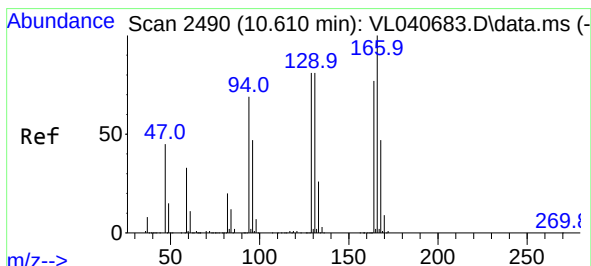
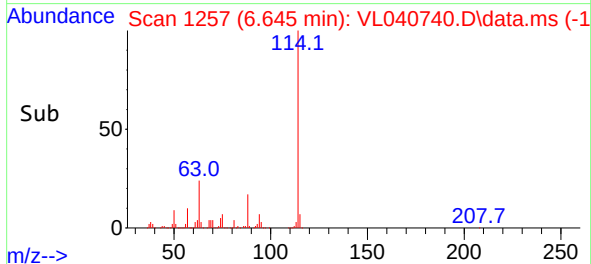
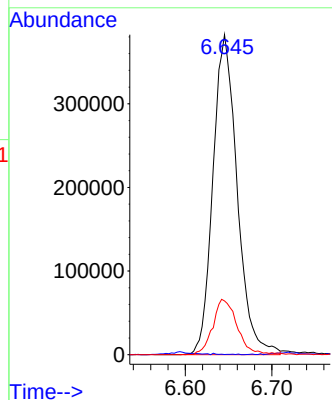
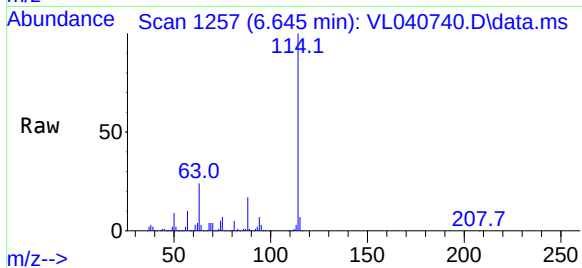
Tgt Ion: 63 Resp: 744674

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 16.8 55.8 83.8#



#52

Tetrachloroethene

Concen: 0.860 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. -0.022 min

Lab File: VL040740.D

Acq: 4 Oct 2023 14:31

Tgt Ion:164 Resp: 66145

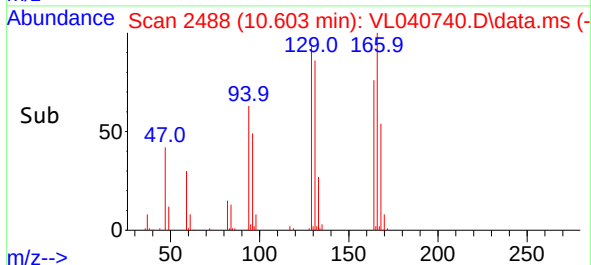
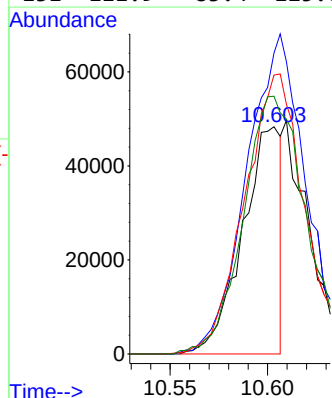
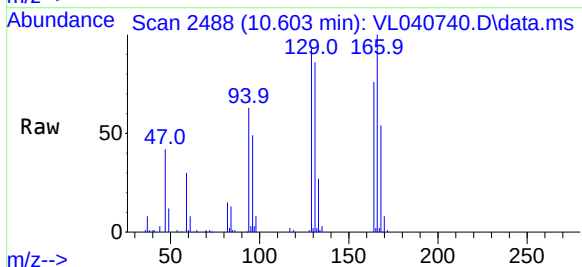
Ion Ratio Lower Upper

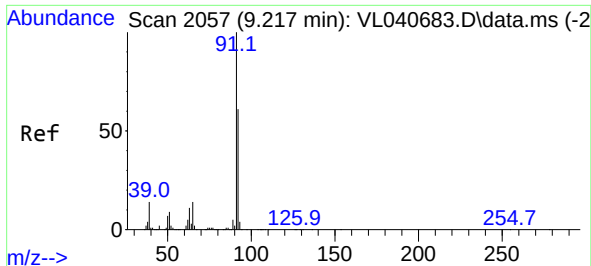
164 100

166 131.6 103.4 155.2

129 122.1 83.5 125.3

131 111.9 83.4 125.0

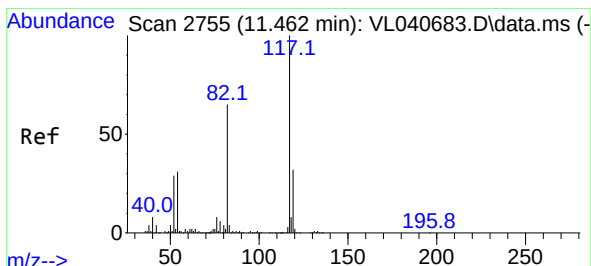
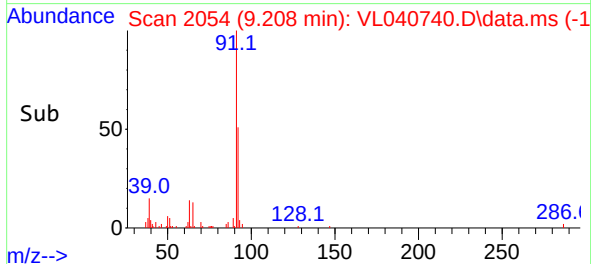
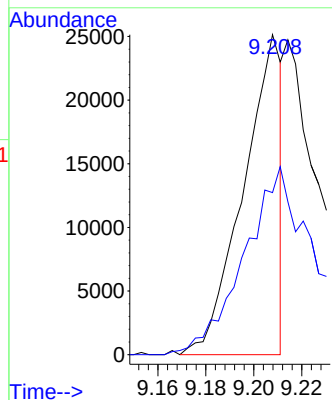
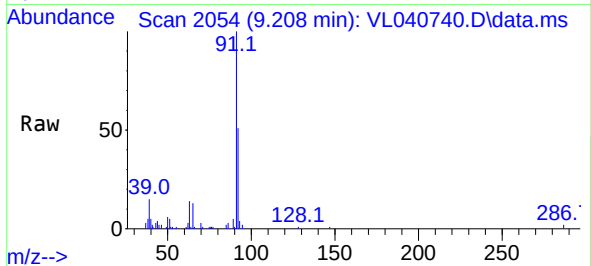




#53
Toluene
Concen: 0.112 ppbv
RT: 9.208 min Scan# 2057
Delta R.T. -0.022 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

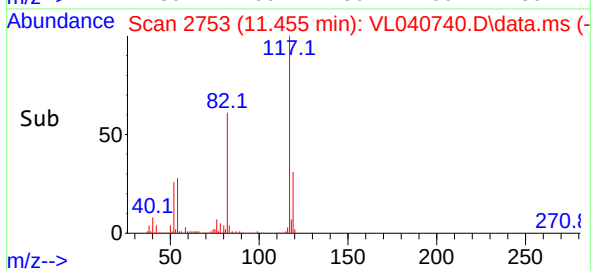
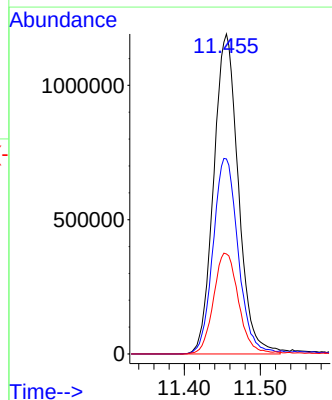
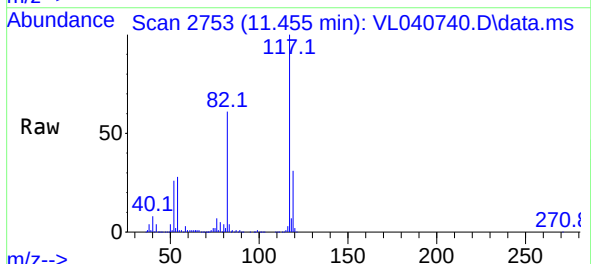
Instrument :
MSVOA_L
ClientSampleId :

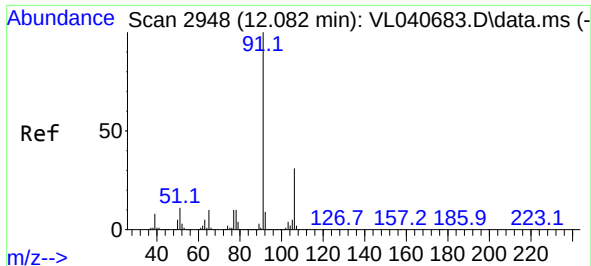
Tgt Ion: 91 Resp: 27792
Ion Ratio Lower Upper
91 100
92 0.0 48.5 72.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.022 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

Tgt Ion: 117 Resp: 2685066
Ion Ratio Lower Upper
117 100
82 63.8 51.4 77.0
119 32.4 24.7 37.1





#58

Ethyl Benzene

Concen: 0.050 ppbv

RT: 12.069 min Scan# 2944

Delta R.T. -0.032 min

Lab File: VL040740.D

Acq: 4 Oct 2023 14:31

Instrument :

MSVOA_L

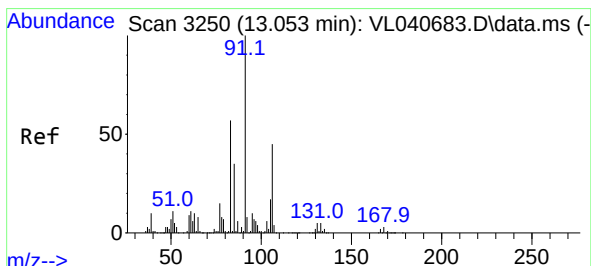
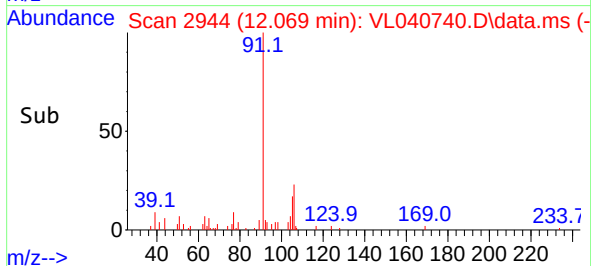
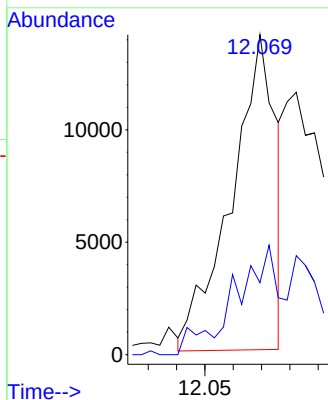
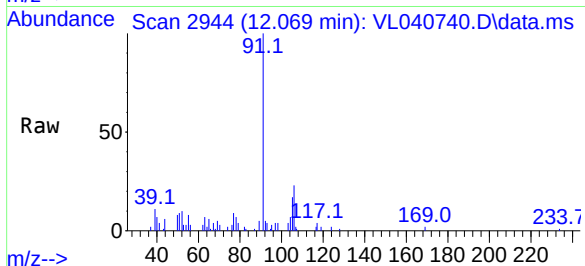
ClientSampleId :

Tgt Ion: 91 Resp: 15185

Ion Ratio Lower Upper

91 100

106 25.4 24.7 37.1



#60

o-Xylene

Concen: 0.073 ppbv

RT: 13.044 min Scan# 3247

Delta R.T. -0.026 min

Lab File: VL040740.D

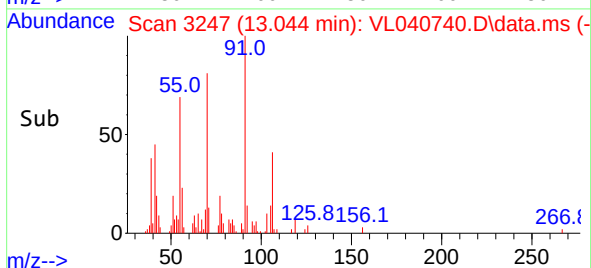
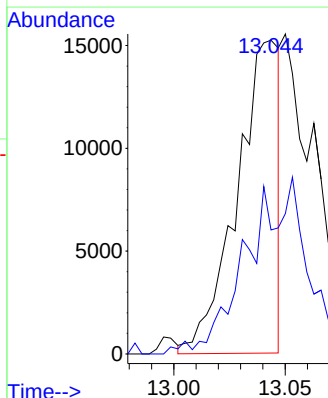
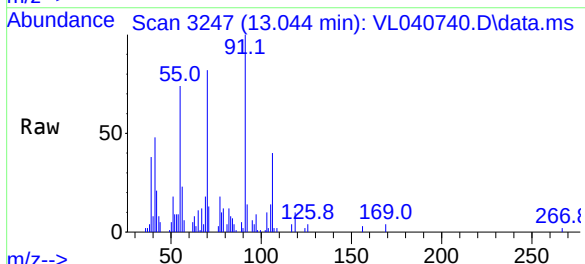
Acq: 4 Oct 2023 14:31

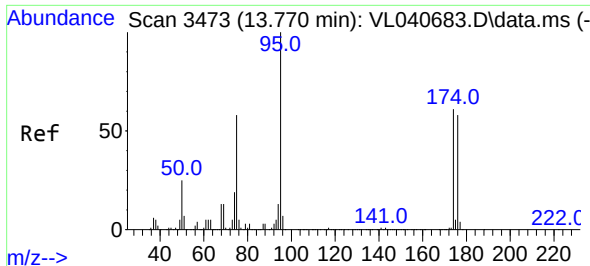
Tgt Ion: 91 Resp: 20104

Ion Ratio Lower Upper

91 100

106 0.0 22.3 66.9#

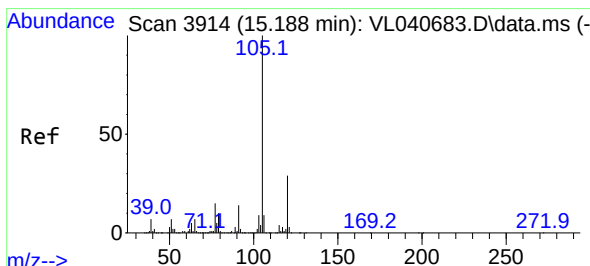
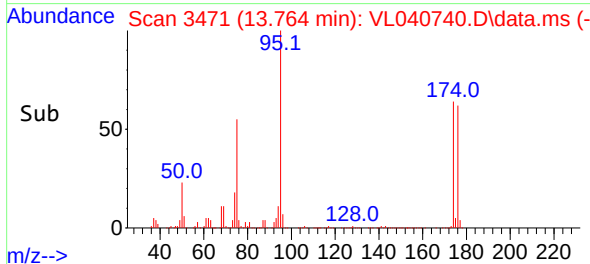
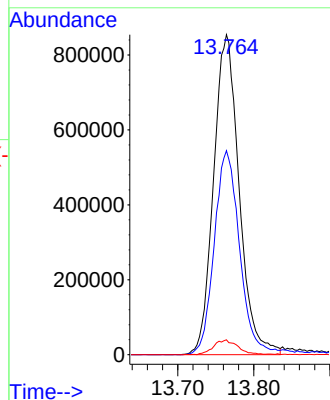
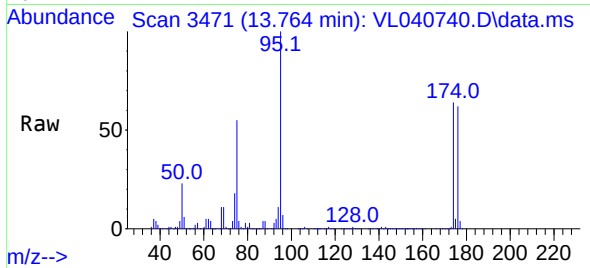




#68
1-Bromo-4-Fluorobenzene
Concen: 9.627 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.022 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

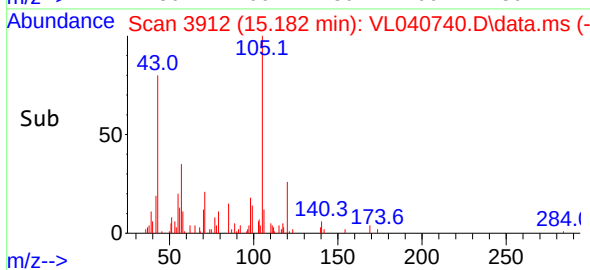
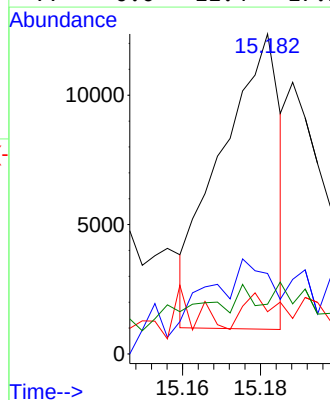
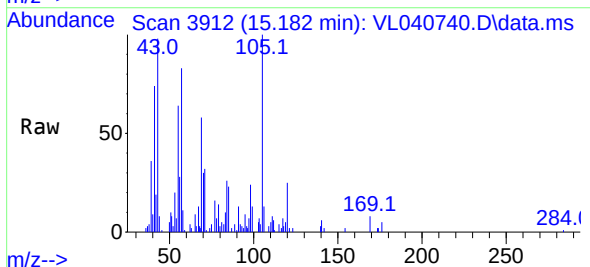
Instrument :
MSVOA_L
ClientSampleId :

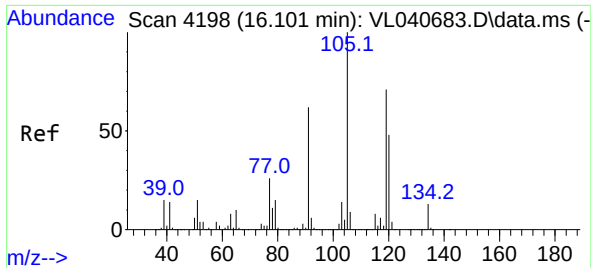
Tgt Ion: 95 Resp: 1997135
Ion Ratio Lower Upper
95 100
174 65.6 48.9 73.3
175 4.5 3.5 5.3



#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.019 min
Lab File: VL040740.D
Acq: 4 Oct 2023 14:31

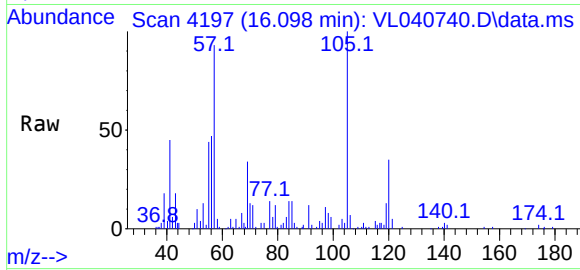
Tgt Ion: 105 Resp: 11991
Ion Ratio Lower Upper
105 100
120 74.3 23.9 35.9#
91 65.5 11.0 16.4#
77 0.0 11.4 17.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.246 ppbv
 RT: 16.098 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL040740.D
 Acq: 4 Oct 2023 14:31

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	82997
Ion	Ratio	Lower	Upper
105	100		
120	34.1	38.6	57.8#
91	7.8	50.0	75.0#
77	9.5	20.6	31.0#

