

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040657.D
 Acq On : 5 Sep 2023 21:43
 Operator : SY/MD
 Sample : 04281-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:08:08 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)

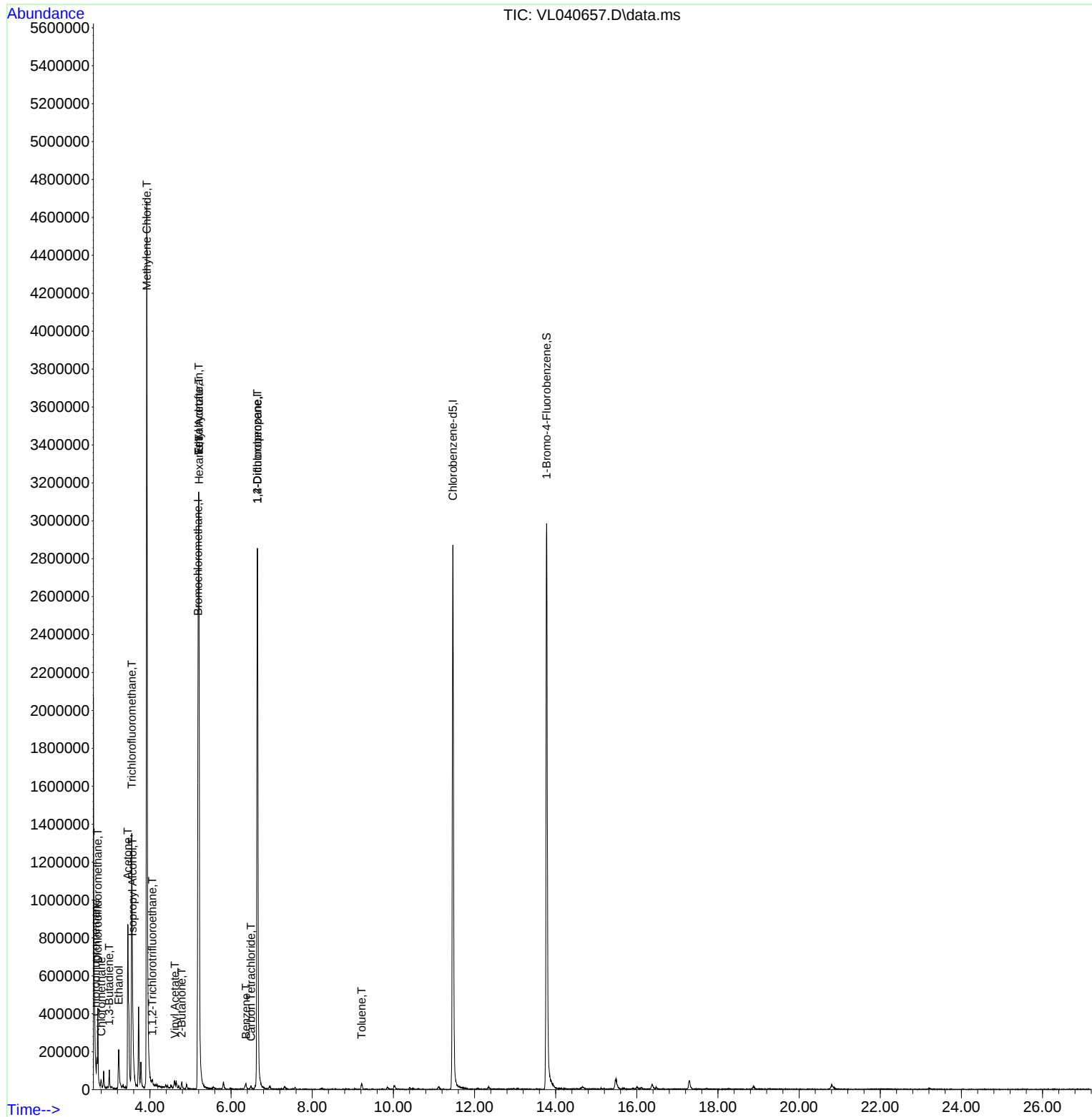
Internal Standards							
1) Bromochloromethane		5.185	49	782938	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.648	114	2031796	10.000	ppbv	-0.01
55) Chlorobenzene-d5		11.468	117	1730708	10.000	ppbv	-0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.777	95	1398131	10.158	ppbv	-0.02
Spiked Amount 10.000		Range 65	- 135	Recovery	= 101.600%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.716	85	268998	1.595	ppbv	95
3) Chlorodifluoromethane		2.661	51	63161	0.491	ppbv #	83
4) Chloromethane		2.800	50	24796	0.495	ppbv	90
11) Trichlorofluoromethane		3.552	101	851534	6.255	ppbv	98
12) 1,1,2-Trichlorotrifluo...		4.057	101	5669	0.056	ppbv #	64
13) Ethanol		3.231	45	213293	19.187	ppbv	96
15) Acetone		3.456	43	916554	9.571	ppbv	97
16) 1,3-Butadiene		2.999	39	12447	0.261	ppbv #	19
19) Isopropyl Alcohol		3.571	45	366616	6.038	ppbv #	97
20) Methylene Chloride		3.925	84	1653765	35.338	ppbv	95
23) Vinyl Acetate		4.613	43	9477	0.087	ppbv #	84
25) Ethyl Acetate		5.205	43	721201	4.010	ppbv #	77
26) Hexane		5.208	57	1034778	11.891	ppbv #	41
34) 2-Butanone		4.784	43	37867	0.370	ppbv	99
35) Carbon Tetrachloride		6.488	117	5695	0.045	ppbv	95
36) Benzene		6.365	78	8618	0.053	ppbv #	94
39) 1,2-Dichloropropane		6.648	63	524083	8.522	ppbv #	25
41) Tetrahydrofuran		5.205	42	384130	6.633	ppbv #	47
53) Toluene		9.217	91	18647	0.109	ppbv	85

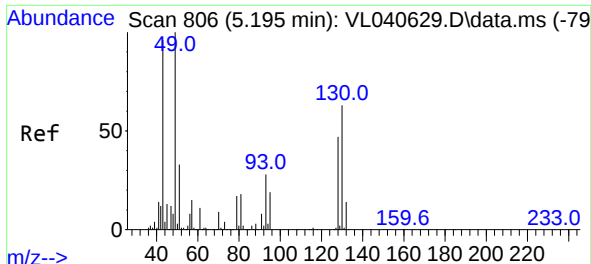
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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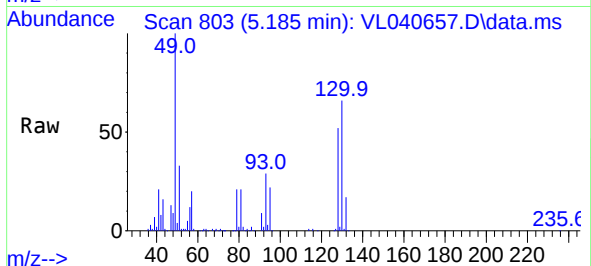
Quant Time: Sep 06 02:08:08 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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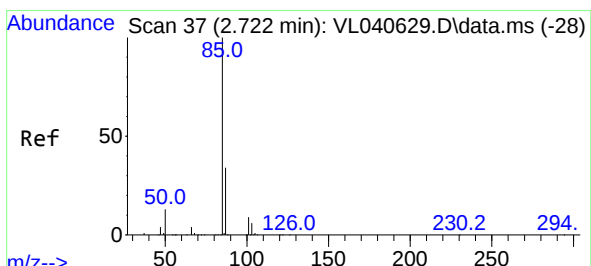
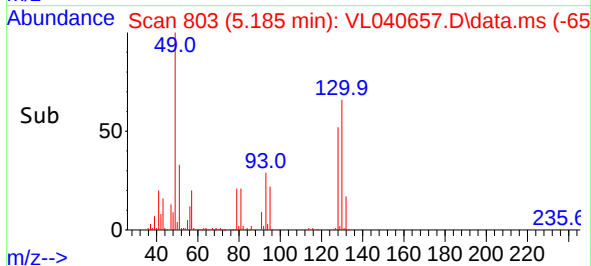
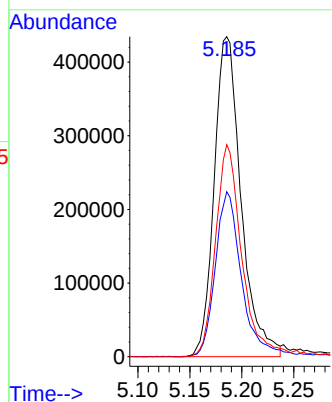


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Instrument :
MSVOA_L
ClientSampleId :

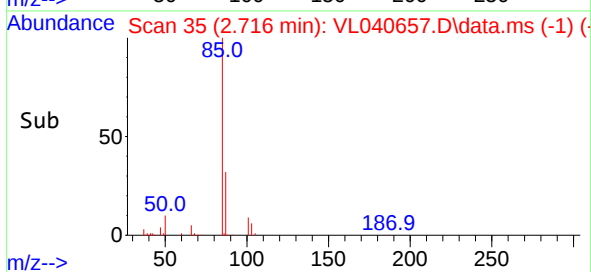
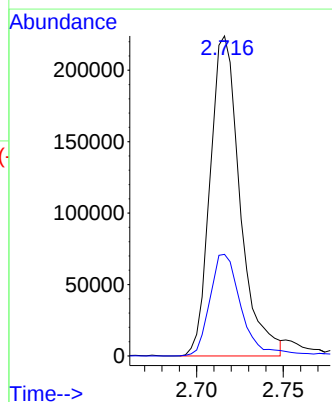
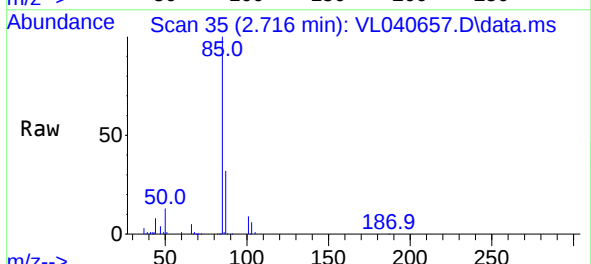


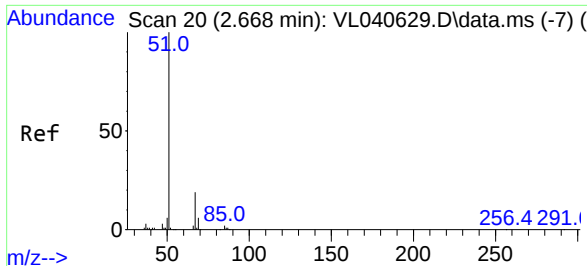
Tgt Ion: 49 Resp: 782938
Ion Ratio Lower Upper
49 100
128 51.6 24.9 74.7
130 66.9 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 1.595 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.006 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 85 Resp: 268998
Ion Ratio Lower Upper
85 100
87 31.7 27.5 41.3

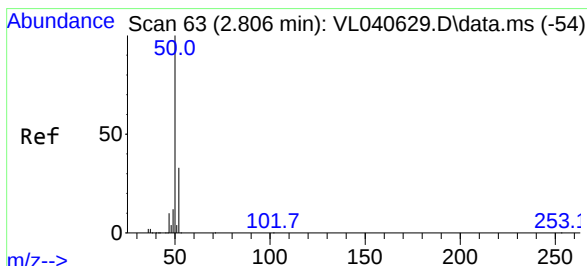
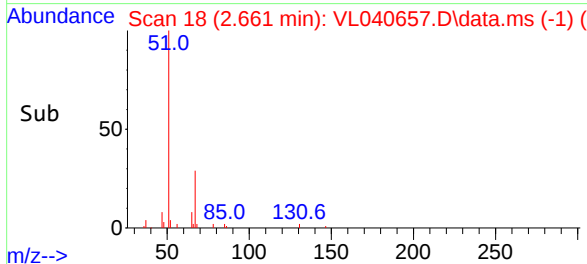
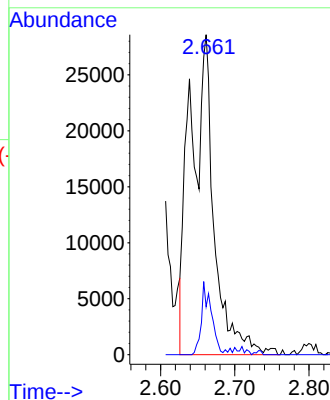
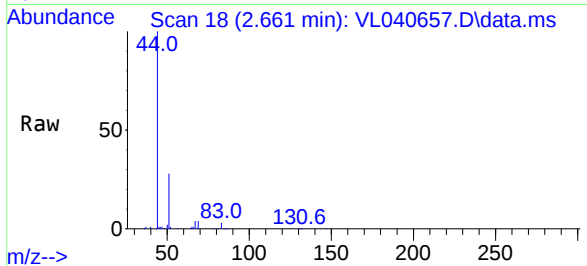




#3
Chlorodifluoromethane
Concen: 0.491 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

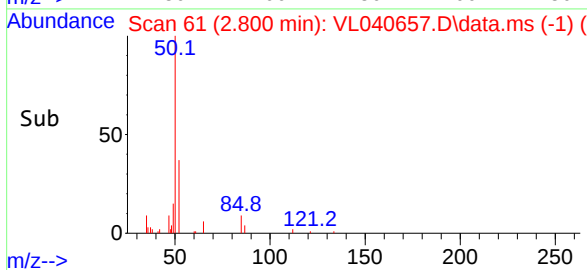
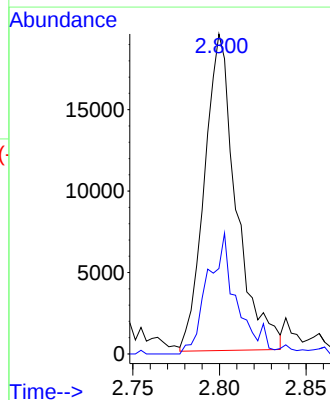
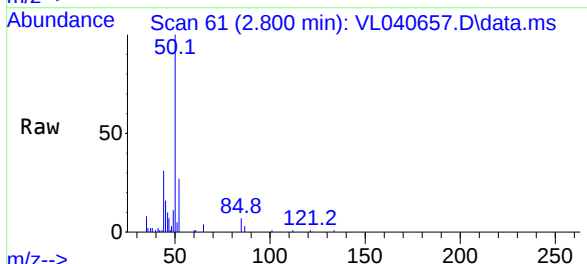
Instrument :
MSVOA_L
ClientSampleId :

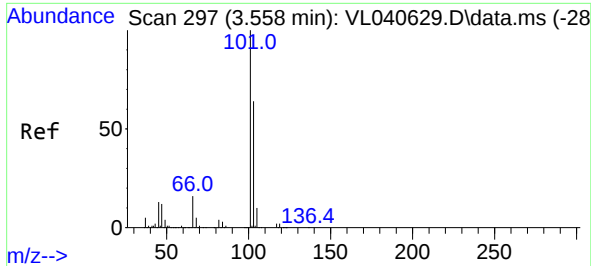
Tgt Ion: 51 Resp: 63161
Ion Ratio Lower Upper
51 100
67 11.0 15.0 22.6#



#4
Chloromethane
Concen: 0.495 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 50 Resp: 24796
Ion Ratio Lower Upper
50 100
52 27.3 26.2 39.2

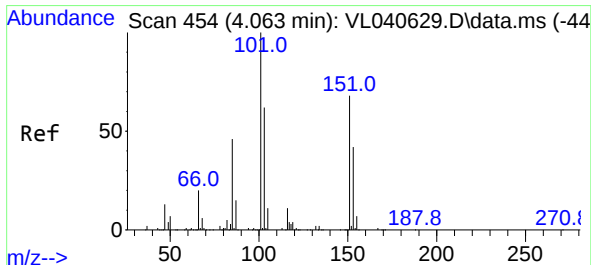
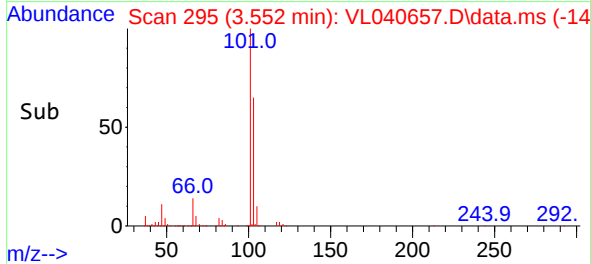
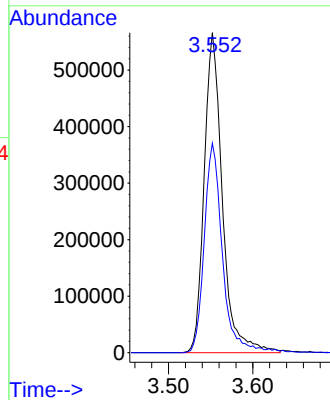
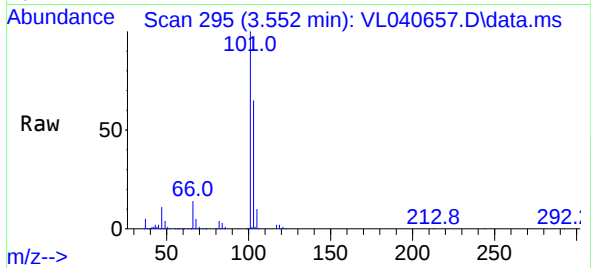




#11
 Trichlorofluoromethane
 Concen: 6.255 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. -0.006 min
 Lab File: VL040657.D
 Acq: 5 Sep 2023 21:43

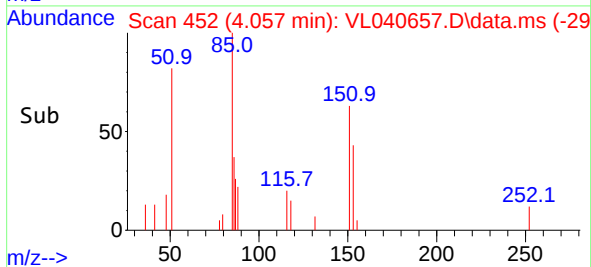
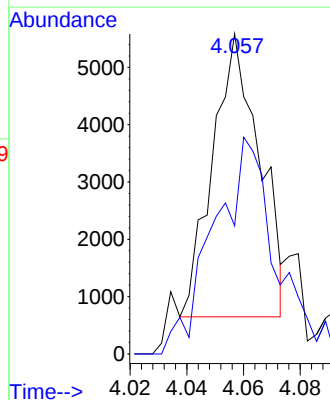
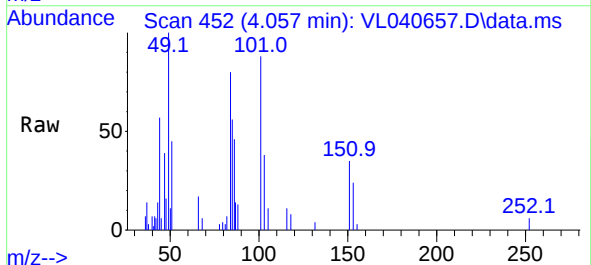
Instrument :
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 ClientSampleId :

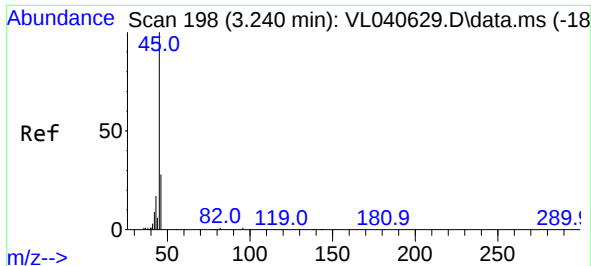
Tgt Ion:101 Resp: 851534
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.1 76.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.056 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. -0.006 min
 Lab File: VL040657.D
 Acq: 5 Sep 2023 21:43

Tgt Ion:101 Resp: 5669
 Ion Ratio Lower Upper
 101 100
 151 99.9 56.2 84.2#

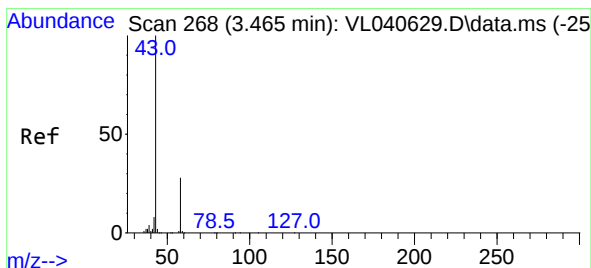
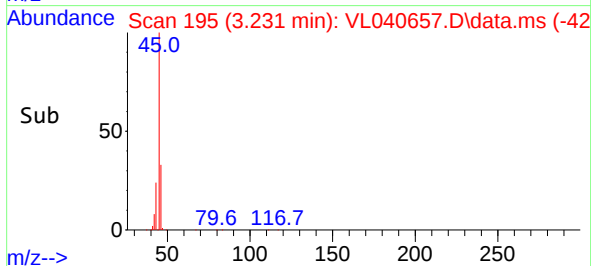
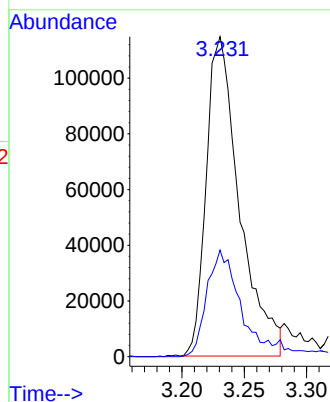
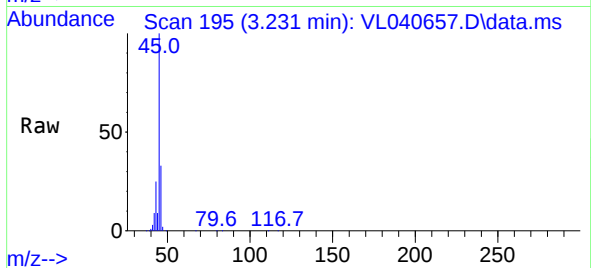




#13
Ethanol
Concen: 19.187 ppbv
RT: 3.231 min Scan# 195
Delta R.T. -0.010 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

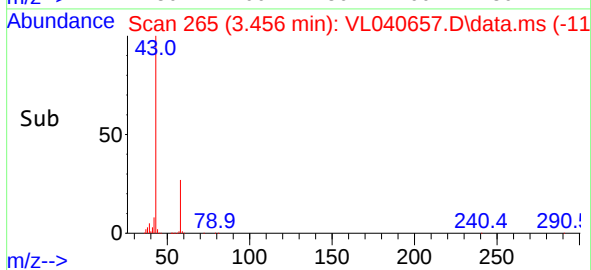
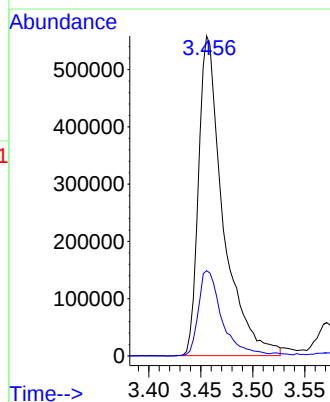
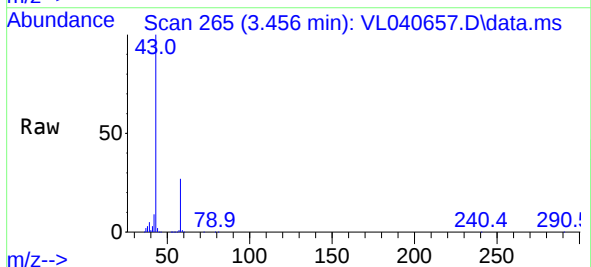
Instrument :
MSVOA_L
ClientSampleId :

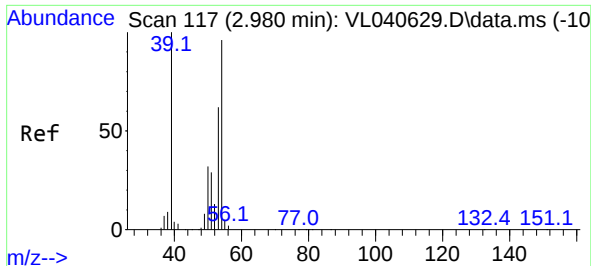
Tgt Ion: 45 Resp: 213293
Ion Ratio Lower Upper
45 100
46 37.5 14.2 56.6



#15
Acetone
Concen: 9.571 ppbv
RT: 3.456 min Scan# 265
Delta R.T. -0.010 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 43 Resp: 916554
Ion Ratio Lower Upper
43 100
58 26.2 22.4 33.6





#16

1,3-Butadiene

Concen: 0.261 ppbv

RT: 2.999 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL040657.D

Acq: 5 Sep 2023 21:43

Instrument :

MSVOA_L

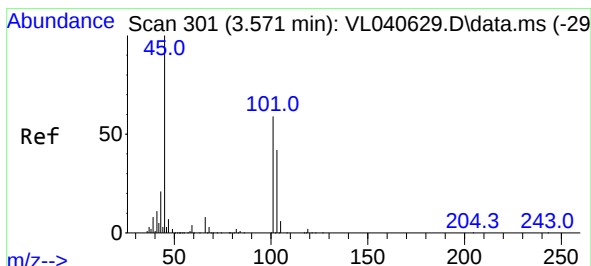
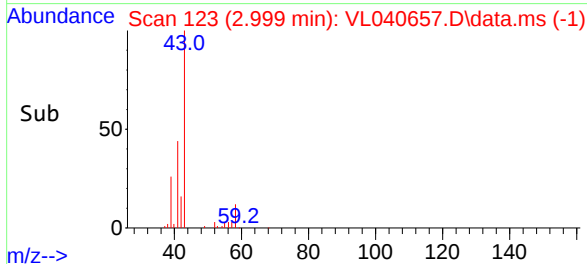
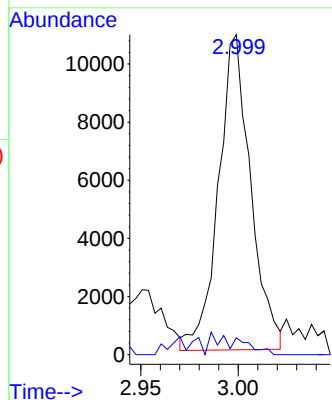
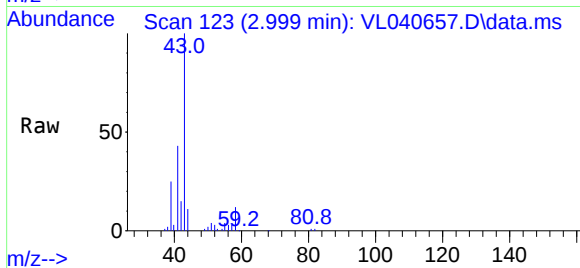
ClientSampleId :

Tgt Ion: 39 Resp: 12447

Ion Ratio Lower Upper

39 100

54 10.4 66.6 99.8#



#19

Isopropyl Alcohol

Concen: 6.038 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.000 min

Lab File: VL040657.D

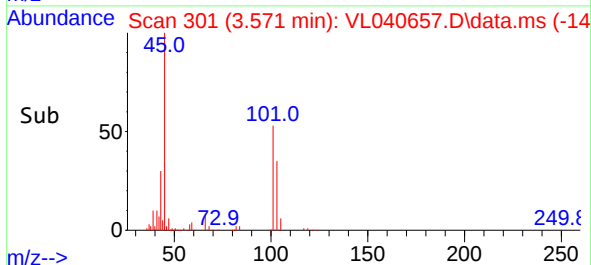
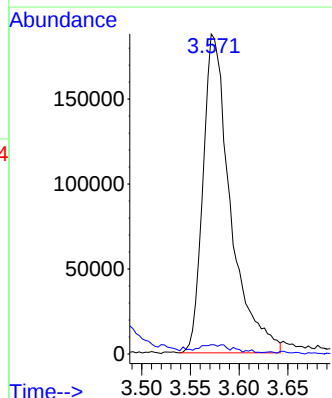
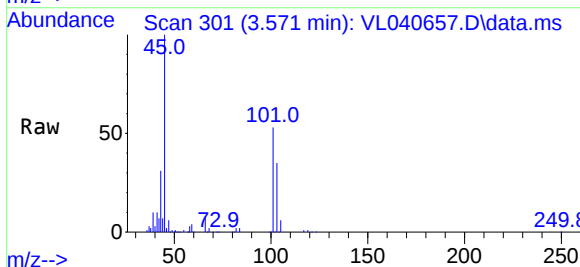
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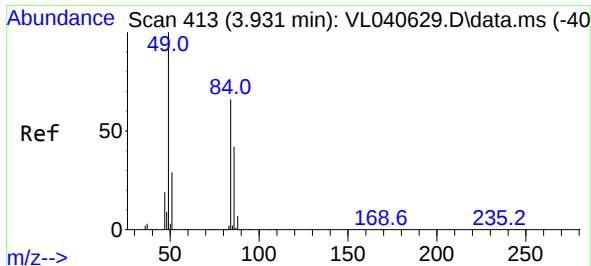
Tgt Ion: 45 Resp: 366616

Ion Ratio Lower Upper

45 100

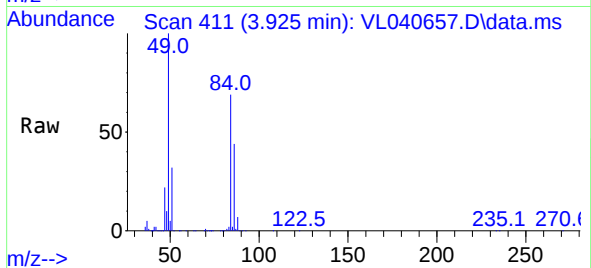
58 3.4 1.9 2.9#





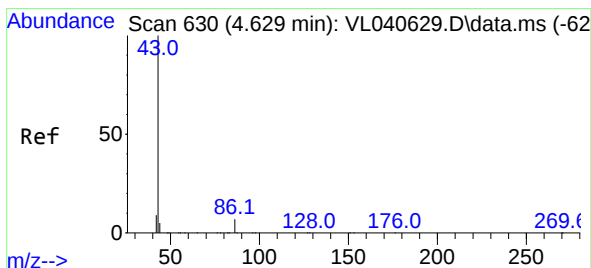
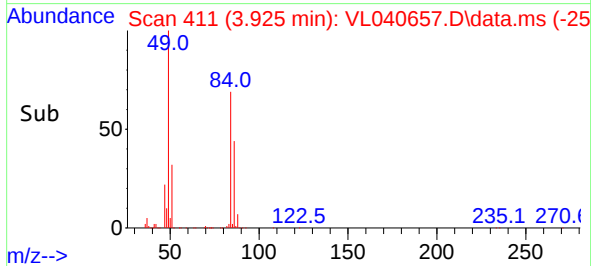
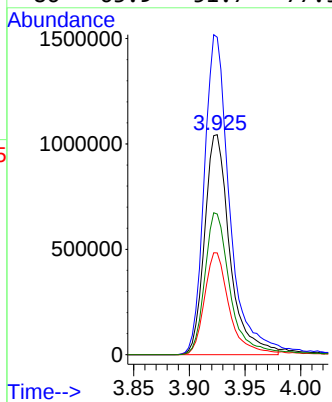
#20
Methylene Chloride
Concen: 35.338 ppbv
RT: 3.925 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 1653765

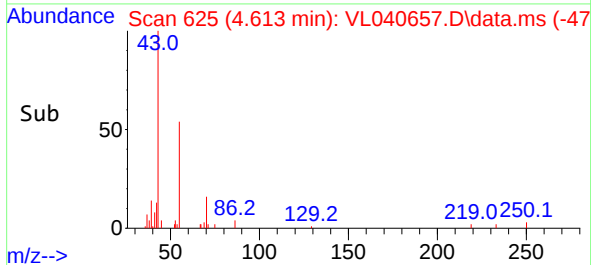
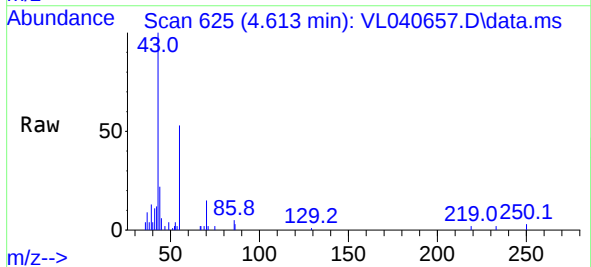
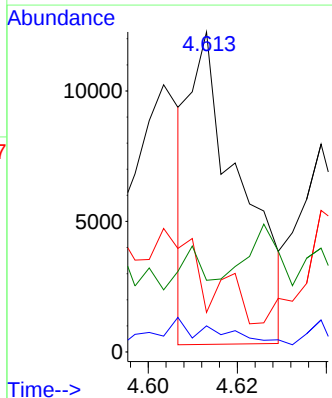
Ion	Ratio	Lower	Upper
84	100		
49	144.2	122.1	183.1
51	46.2	35.4	53.2
86	63.9	51.7	77.5

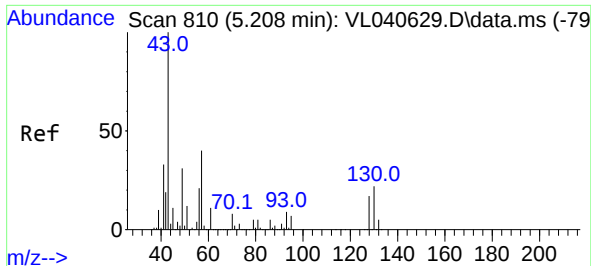


#23
Vinyl Acetate
Concen: 0.087 ppbv
RT: 4.613 min Scan# 625
Delta R.T. -0.016 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 43 Resp: 9477

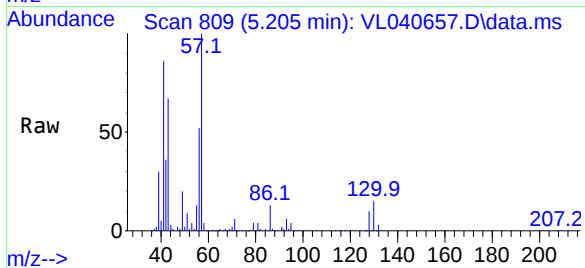
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.0	7.6
42	0.0	7.8	11.8#
44	0.0	4.2	6.4#





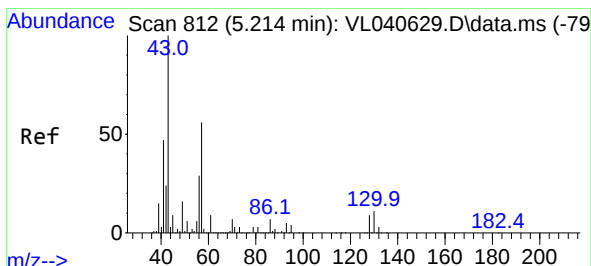
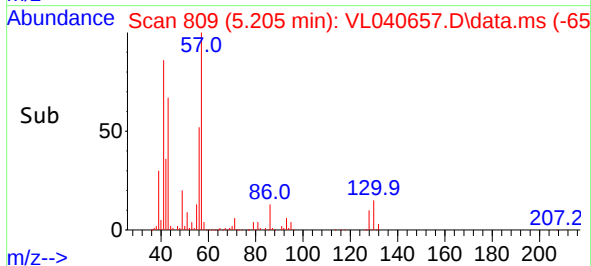
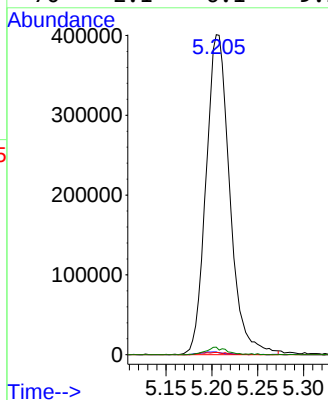
#25
Ethyl Acetate
Concen: 4.010 ppbv
RT: 5.205 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 721201

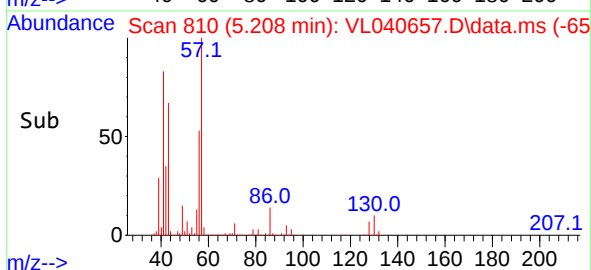
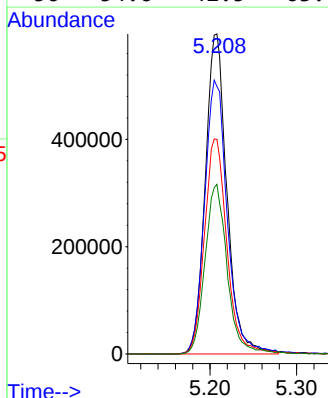
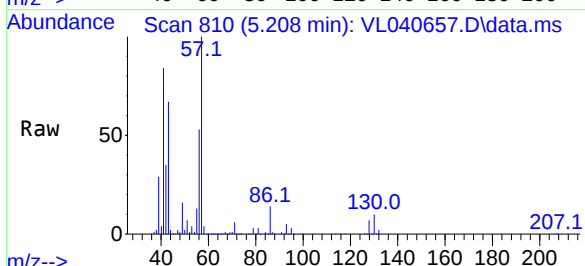
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.2	12.4#
61	0.7	8.3	12.5#
70	2.1	6.1	9.1#

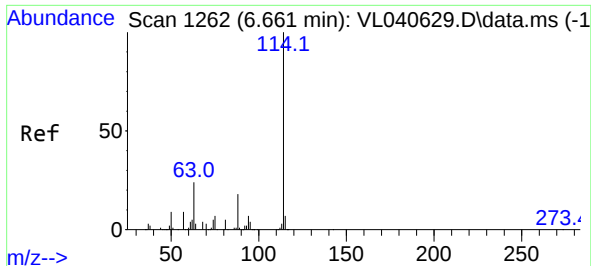


#26
Hexane
Concen: 11.891 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.006 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 57 Resp: 1034778

Ion	Ratio	Lower	Upper
57	100		
41	91.1	69.3	103.9
43	70.2	177.9	266.9#
56	54.6	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040657.D

Acq: 5 Sep 2023 21:43

Instrument :

MSVOA_L

ClientSampleId :

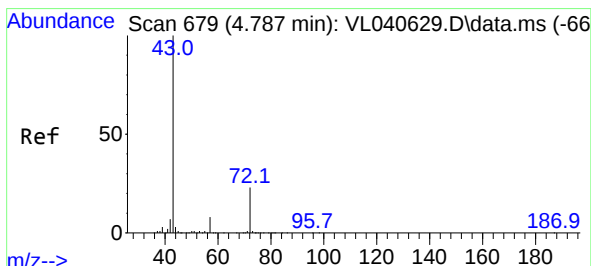
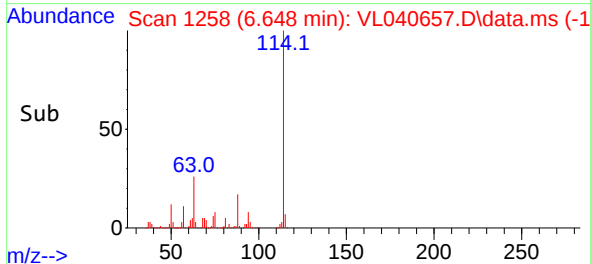
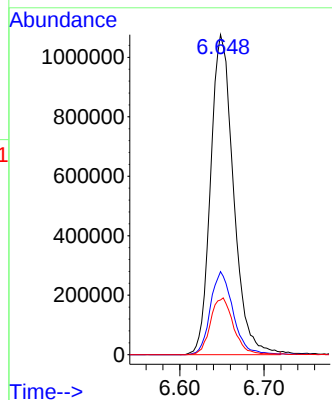
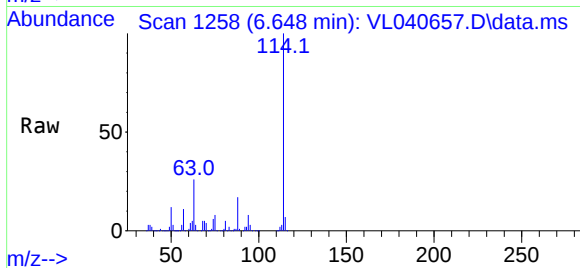
Tgt Ion:114 Resp: 2031796

Ion Ratio Lower Upper

114 100

63 26.0 20.2 30.2

88 18.1 14.1 21.1



#34

2-Butanone

Concen: 0.370 ppbv

RT: 4.784 min Scan# 678

Delta R.T. -0.003 min

Lab File: VL040657.D

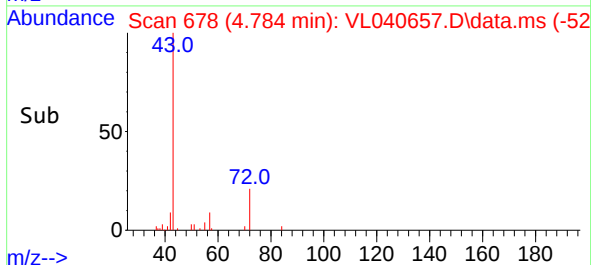
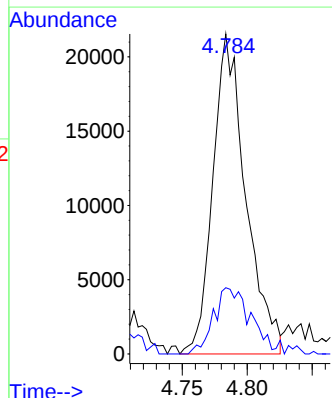
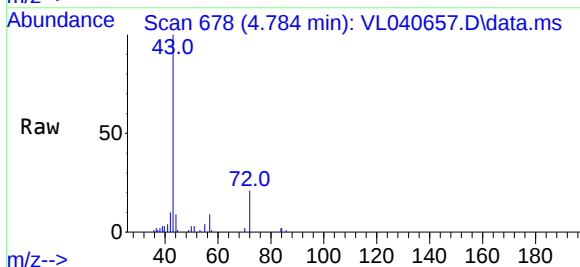
Acq: 5 Sep 2023 21:43

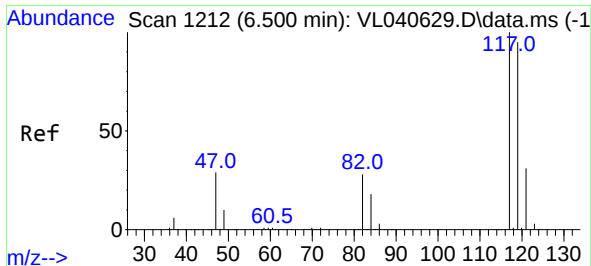
Tgt Ion: 43 Resp: 37867

Ion Ratio Lower Upper

43 100

72 23.7 19.2 28.8

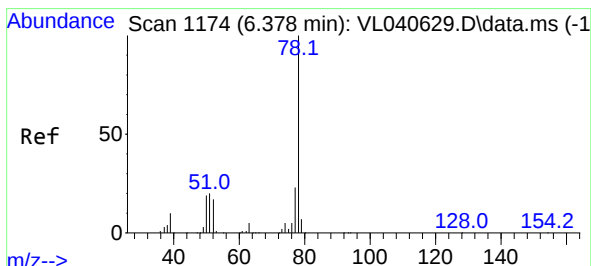
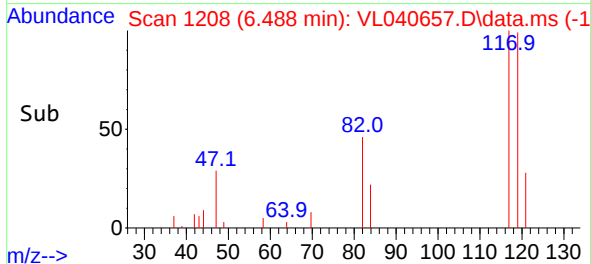
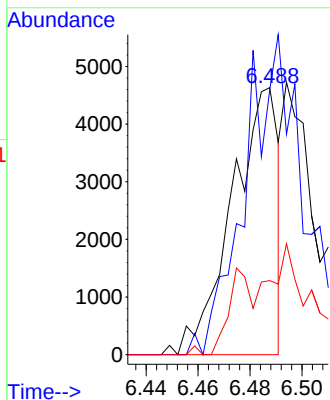
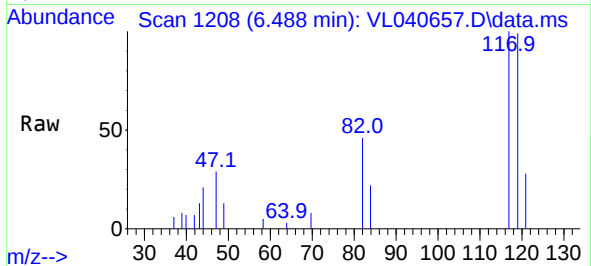




#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 6.488 min Scan# 1170
Delta R.T. -0.013 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

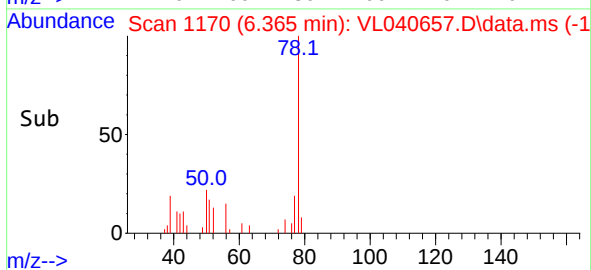
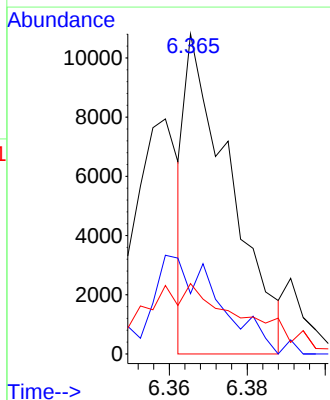
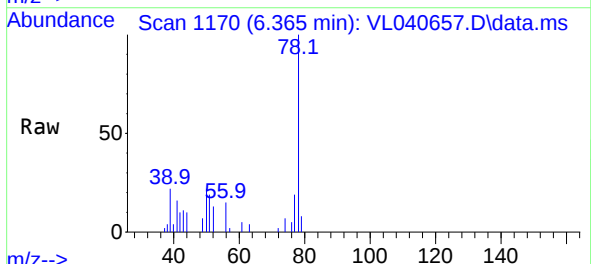
Instrument :
MSVOA_L
ClientSampleId :

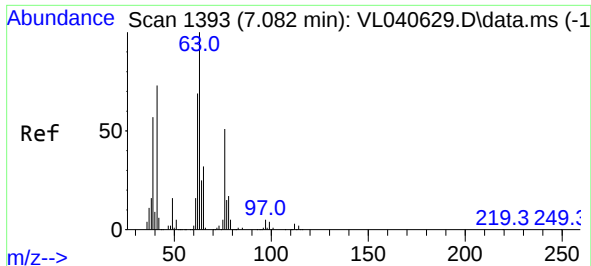
Tgt Ion:117 Resp: 5695
Ion Ratio Lower Upper
117 100
119 99.1 75.6 113.4
121 27.7 24.9 37.3



#36
Benzene
Concen: 0.053 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. -0.013 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

Tgt Ion: 78 Resp: 8618
Ion Ratio Lower Upper
78 100
77 22.6 18.2 27.2
50 13.0 15.0 22.6#





#39

1,2-Dichloropropane

Concen: 8.522 ppbv

RT: 6.648 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040657.D

Acq: 5 Sep 2023 21:43

Instrument :

MSVOA_L

ClientSampleId :

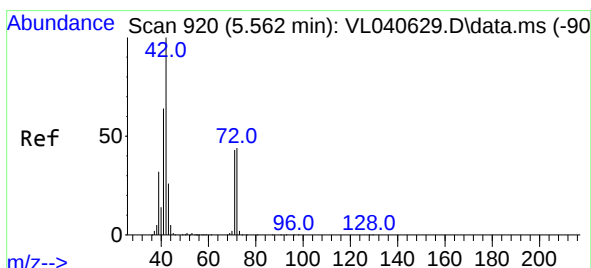
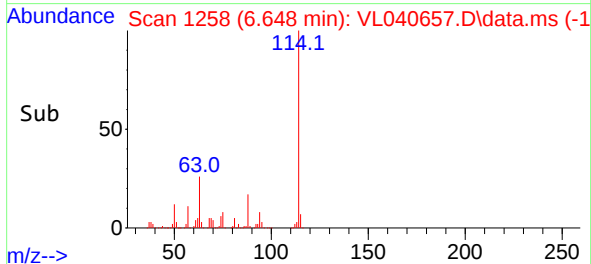
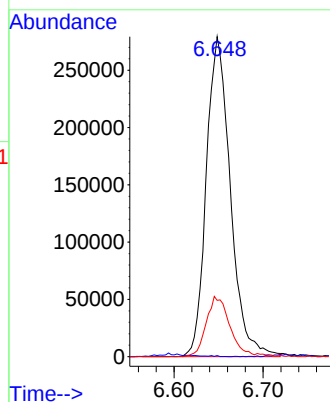
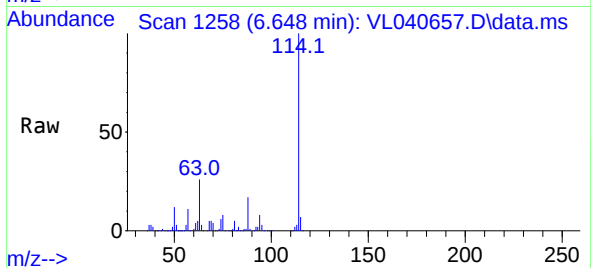
Tgt Ion: 63 Resp: 524083

Ion Ratio Lower Upper

63 100

41 0.0 58.2 87.2#

62 17.5 55.0 82.4#



#41

Tetrahydrofuran

Concen: 6.633 ppbv

RT: 5.205 min Scan# 809

Delta R.T. -0.357 min

Lab File: VL040657.D

Acq: 5 Sep 2023 21:43

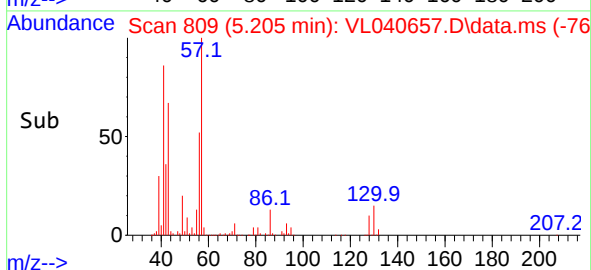
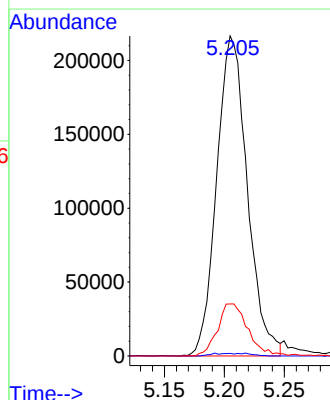
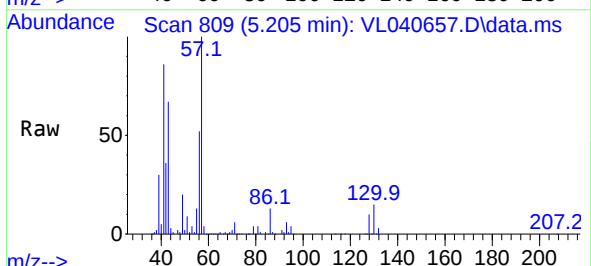
Tgt Ion: 42 Resp: 384130

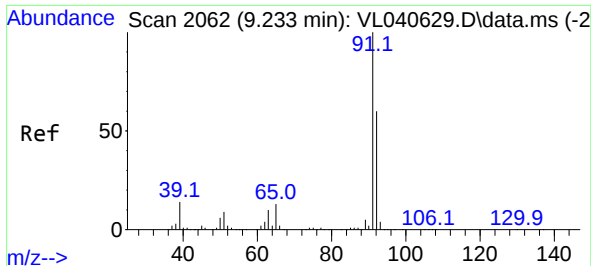
Ion Ratio Lower Upper

42 100

72 1.0 34.2 51.4#

71 16.4 33.4 50.0#

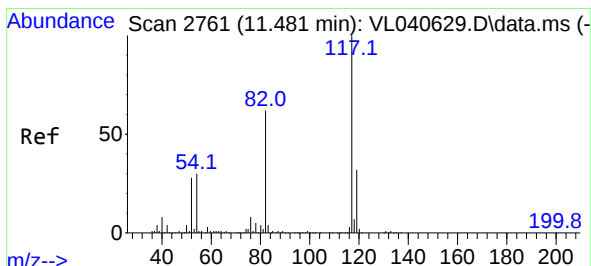
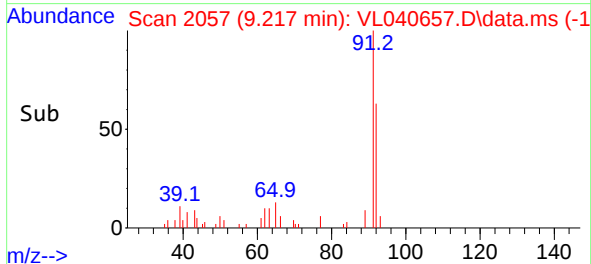
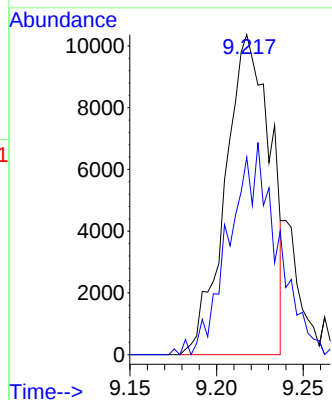
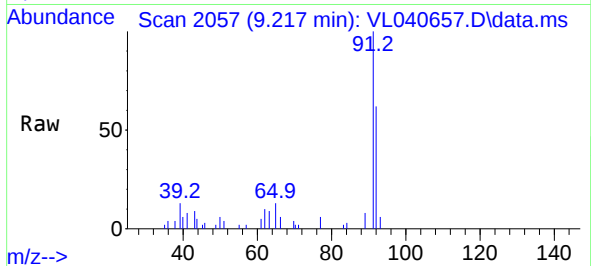




#53
Toluene
Concen: 0.109 ppbv
RT: 9.217 min Scan# 2062
Delta R.T. -0.016 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

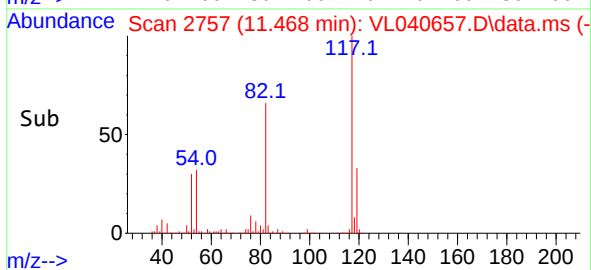
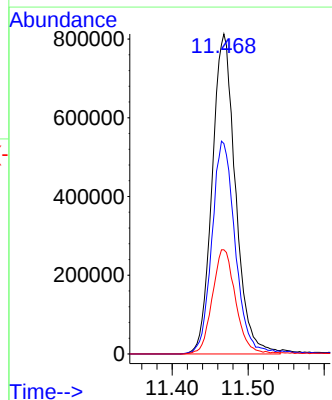
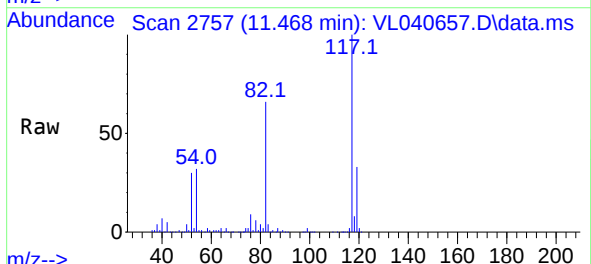
Instrument :
MSVOA_L
ClientSampleId :

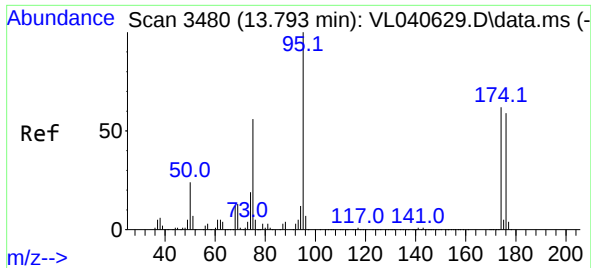
Tgt Ion: 91 Resp: 18647
Ion Ratio Lower Upper
91 100
92 71.6 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.013 min
Lab File: VL040657.D
Acq: 5 Sep 2023 21:43

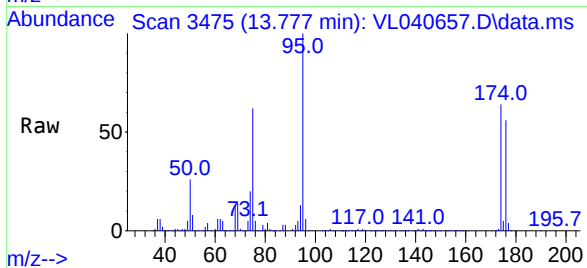
Tgt Ion: 117 Resp: 1730708
Ion Ratio Lower Upper
117 100
82 67.6 49.5 74.3
119 33.1 24.5 36.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.158 ppbv
 RT: 13.777 min Scan# 34
 Delta R.T. -0.016 min
 Lab File: VL040657.D
 Acq: 5 Sep 2023 21:43

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1398131
 Ion Ratio Lower Upper
 95 100
 174 63.6 49.1 73.7
 175 4.4 3.7 5.5

