

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040655.D
 Acq On : 5 Sep 2023 20:20
 Operator : SY/MD
 Sample : 04261-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:07:40 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)

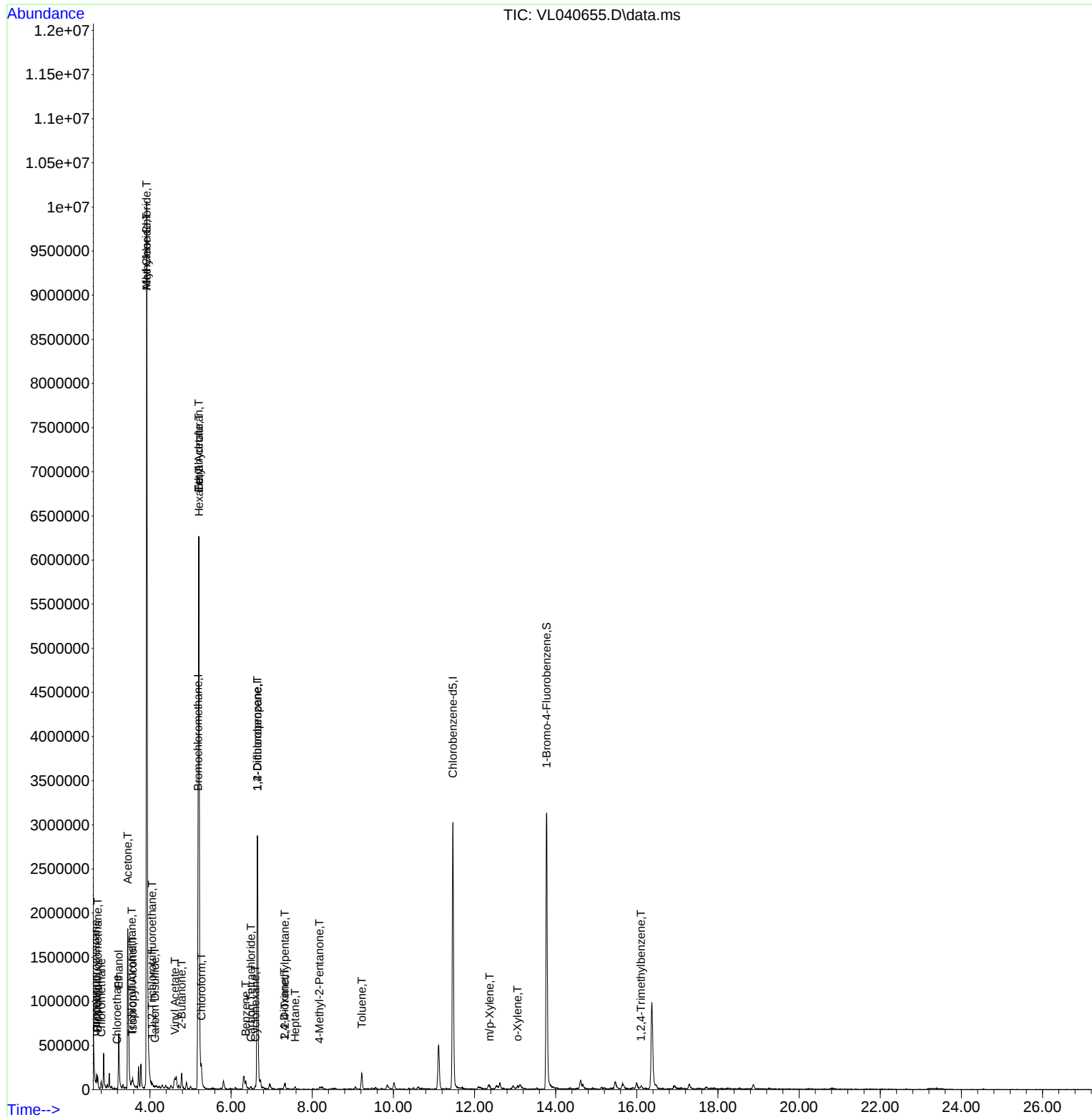
Internal Standards						
1) Bromochloromethane	5.185	49	805030	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2036999	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.468	117	1883316	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1511568	10.092	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	79710	0.460	ppbv	90
3) Chlorodifluoromethane	2.661	51	57726	0.437	ppbv	92
4) Chloromethane	2.800	50	64776	1.256	ppbv	96
7) Chloroethane	3.185	64	3282	0.164	ppbv #	73
9) Propene	2.684	41	34281	0.837	ppbv	93
10) Heptane	7.581	43	8617	0.091	ppbv #	81
11) Trichlorofluoromethane	3.552	101	34961	0.250	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.054	101	4001	0.039	ppbv #	15
13) Ethanol	3.230	45	581401	50.865	ppbv	97
15) Acetone	3.452	43	1899901	19.295	ppbv	100
19) Isopropyl Alcohol	3.575	45	84561	1.354	ppbv #	1
20) Methylene Chloride	3.922	84	3628474	75.407	ppbv	94
21) Allyl Chloride	3.922	41	134866	2.071	ppbv #	25
23) Vinyl Acetate	4.619	43	140112	1.249	ppbv #	86
25) Ethyl Acetate	5.205	43	1596968	8.636	ppbv #	76
26) Hexane	5.208	57	2365766	26.441	ppbv #	41
27) Carbon Disulfide	4.121	76	3476	0.033	ppbv #	69
29) Chloroform	5.269	83	104567	0.738	ppbv	97
30) Cyclohexane	6.597	84	2825	0.041	ppbv #	1
34) 2-Butanone	4.780	43	177537	1.728	ppbv	97
35) Carbon Tetrachloride	6.488	117	10203	0.080	ppbv #	72
36) Benzene	6.362	78	56861	0.351	ppbv #	88
39) 1,2-Dichloropropane	6.648	63	531054	8.614	ppbv #	25
40) 1,4-Dioxane	7.311	88	2070	0.089	ppbv #	1
41) Tetrahydrofuran	5.205	42	854654	14.720	ppbv #	47
44) 2,2,4-Trimethylpentane	7.324	57	42084	0.161	ppbv #	61
50) 4-Methyl-2-Pentanone	8.179	43	5045	0.034	ppbv #	38
53) Toluene	9.221	91	119220	0.692	ppbv	99
59) m/p-Xylene	12.368	91	18188	0.088	ppbv #	32
60) o-Xylene	13.060	91	18329	0.093	ppbv	83
74) 1,2,4-Trimethylbenzene	16.101	105	10099	0.044	ppbv #	71

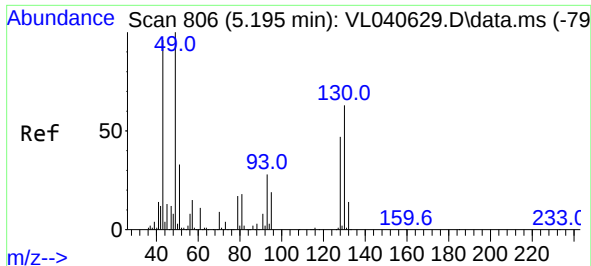
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
Data File : VL040655.D
Acq On : 5 Sep 2023 20:20
Operator : SY/MD
Sample : 04261-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

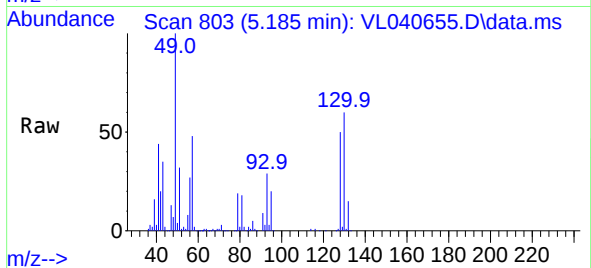
Quant Time: Sep 06 02:07:40 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration



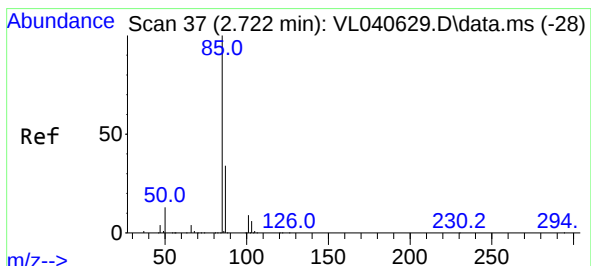
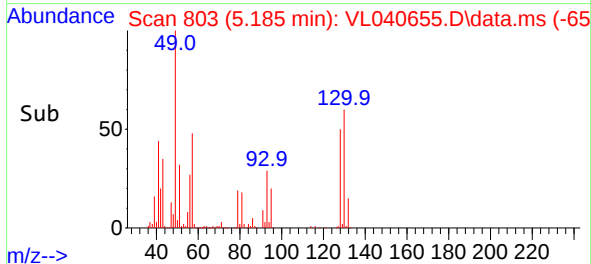
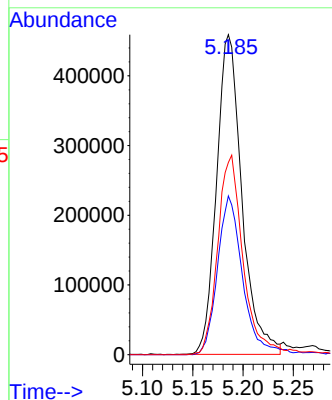


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Instrument :
MSVOA_L
ClientSampleId :

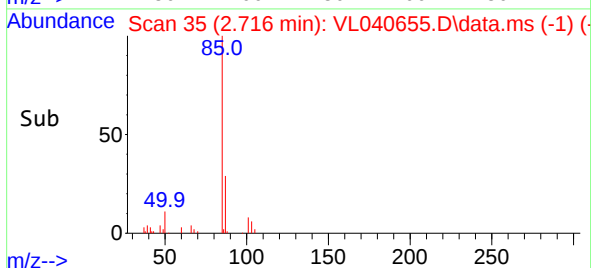
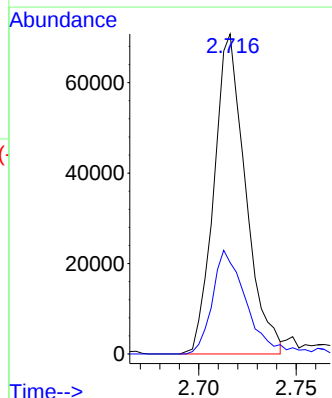
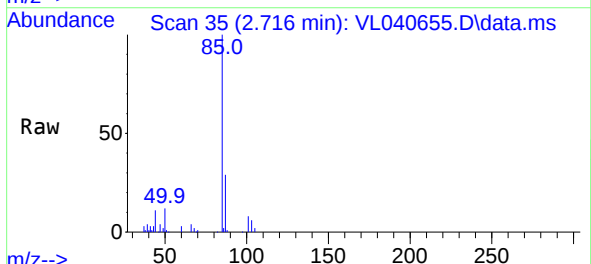


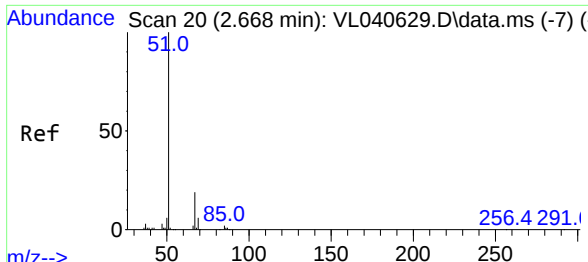
Tgt Ion: 49 Resp: 805030
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.7
130 64.2 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 0.460 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 85 Resp: 79710
Ion Ratio Lower Upper
85 100
87 28.6 27.5 41.3

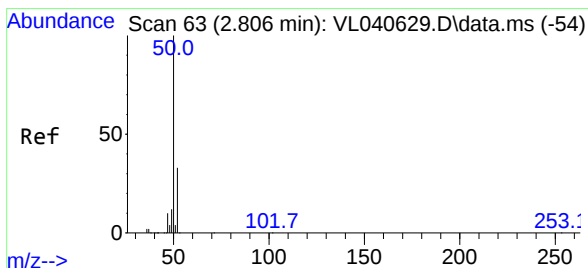
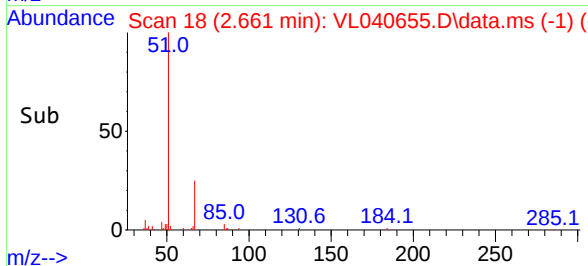
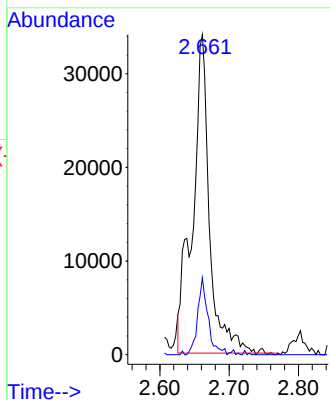
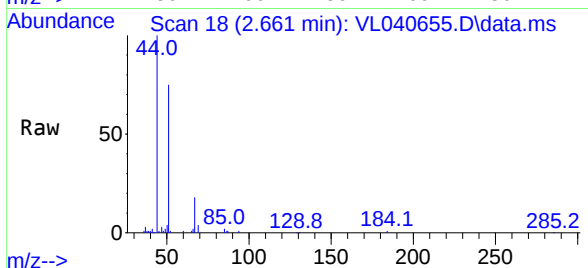




#3
Chlorodifluoromethane
Concen: 0.437 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

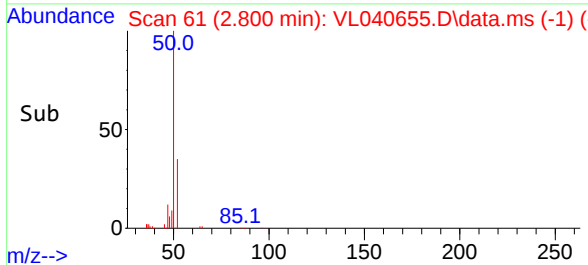
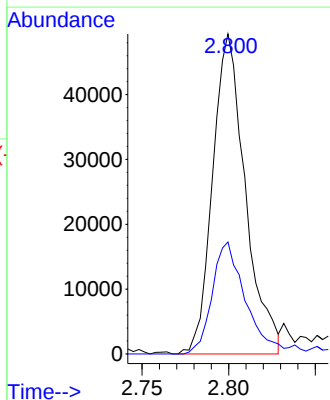
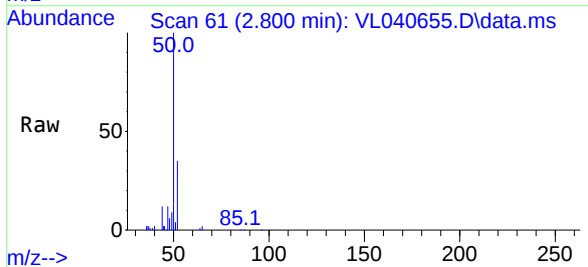
Instrument :
MSVOA_L
ClientSampleId :

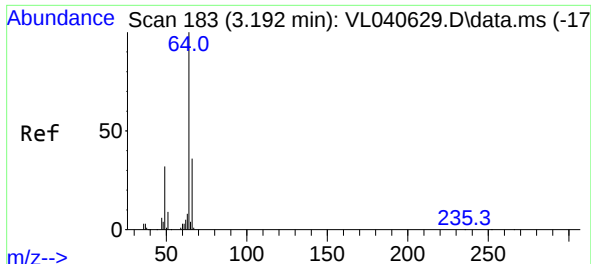
Tgt Ion: 51 Resp: 57726
Ion Ratio Lower Upper
51 100
67 15.4 15.0 22.6



#4
Chloromethane
Concen: 1.256 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

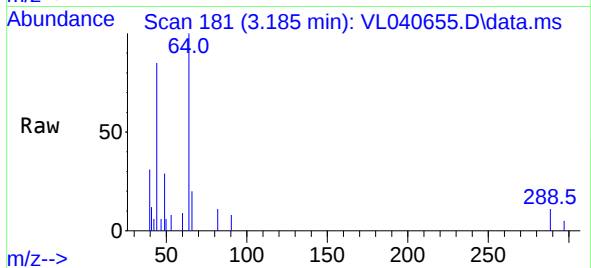
Tgt Ion: 50 Resp: 64776
Ion Ratio Lower Upper
50 100
52 35.0 26.2 39.2



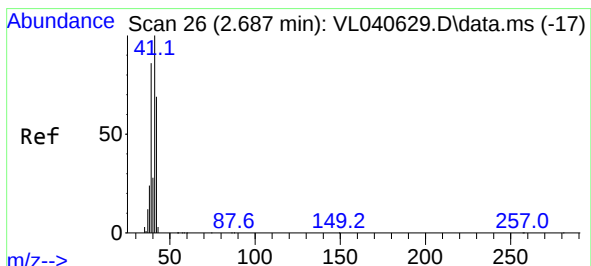
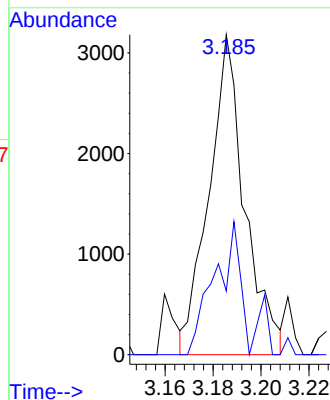
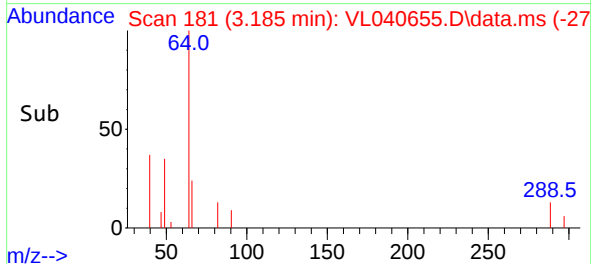


#7
Chloroethane
Concen: 0.164 ppbv
RT: 3.185 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Instrument :
MSVOA_L
ClientSampleId :

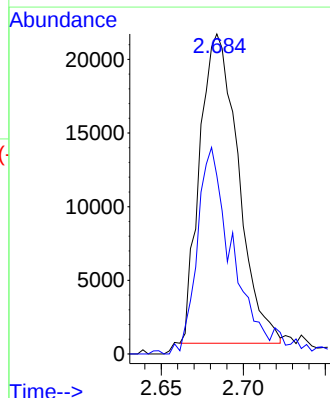
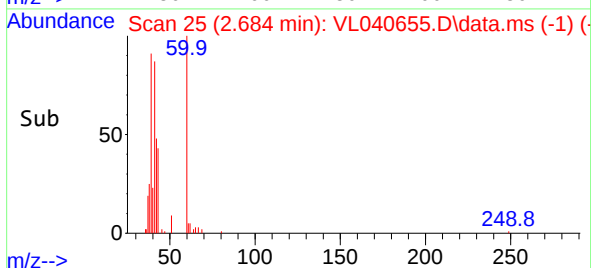
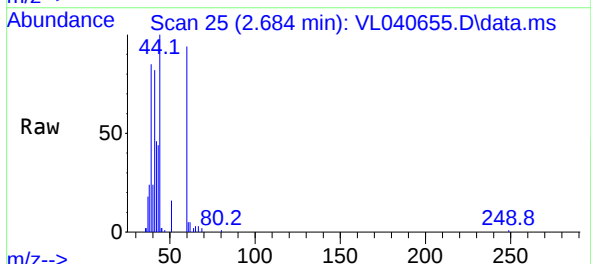


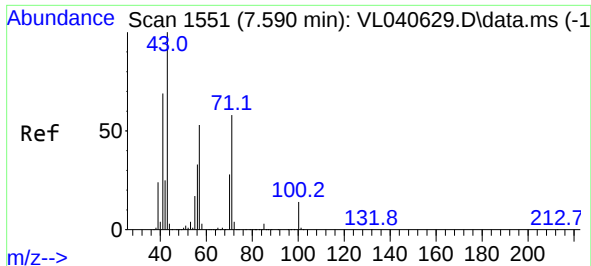
Tgt Ion: 64 Resp: 3282
Ion Ratio Lower Upper
64 100
66 19.9 28.7 43.1#



#9
Propene
Concen: 0.837 ppbv
RT: 2.684 min Scan# 25
Delta R.T. -0.003 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 41 Resp: 34281
Ion Ratio Lower Upper
41 100
42 64.8 56.5 84.7

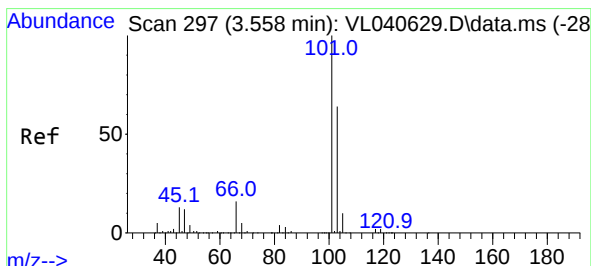
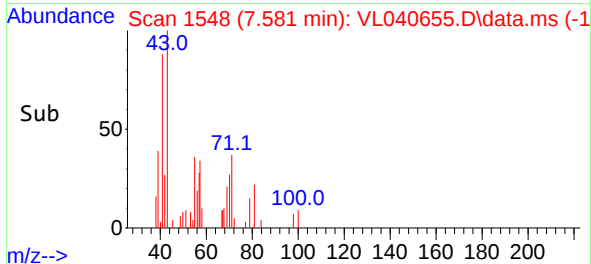
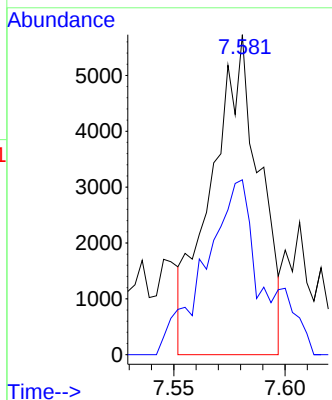
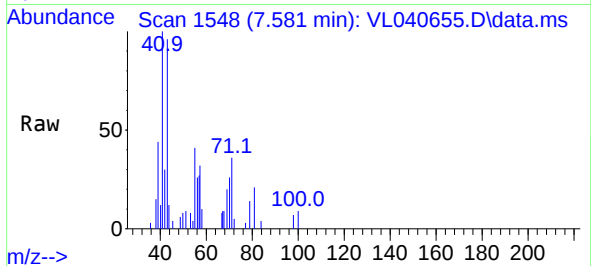




#10
Heptane
Concen: 0.091 ppbv
RT: 7.581 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

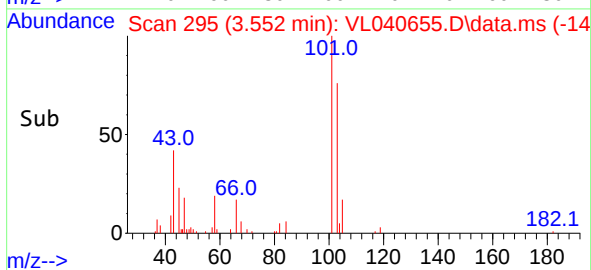
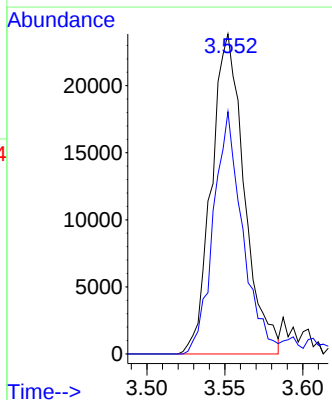
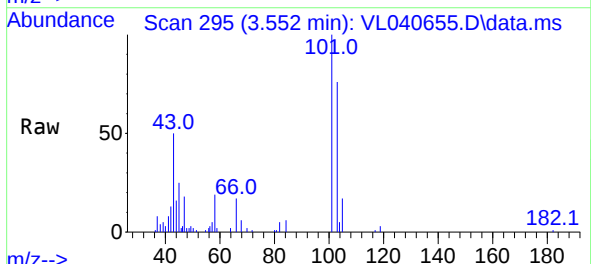
Instrument :
MSVOA_L
ClientSampleId :

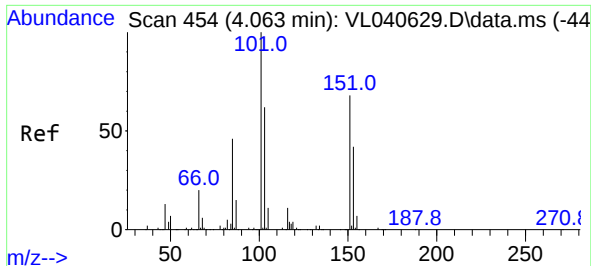
Tgt Ion: 43 Resp: 8617
Ion Ratio Lower Upper
43 100
57 66.9 42.5 63.7#



#11
Trichlorofluoromethane
Concen: 0.250 ppbv
RT: 3.552 min Scan# 295
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 101 Resp: 34961
Ion Ratio Lower Upper
101 100
103 75.7 51.1 76.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.054 min Scan# 4

Delta R.T. -0.010 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Instrument :

MSVOA_L

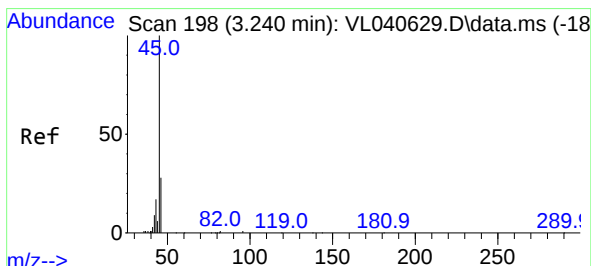
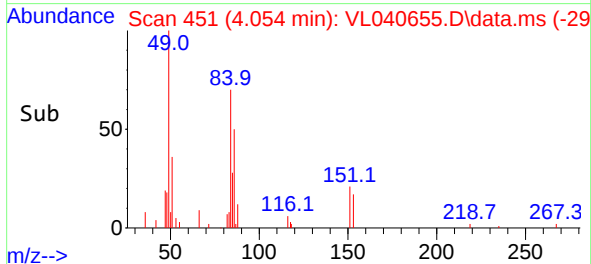
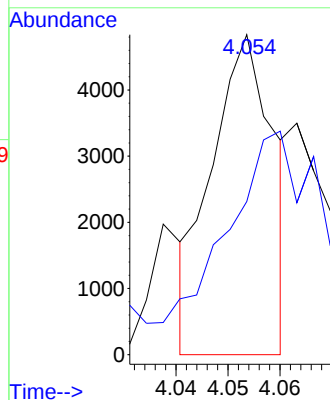
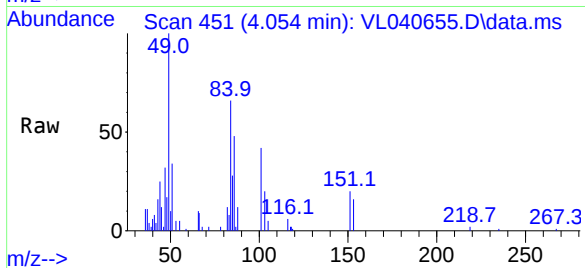
ClientSampleId :

Tgt Ion:101 Resp: 4001

Ion Ratio Lower Upper

101 100

151 0.0 56.2 84.2#



#13

Ethanol

Concen: 50.865 ppbv

RT: 3.230 min Scan# 195

Delta R.T. -0.010 min

Lab File: VL040655.D

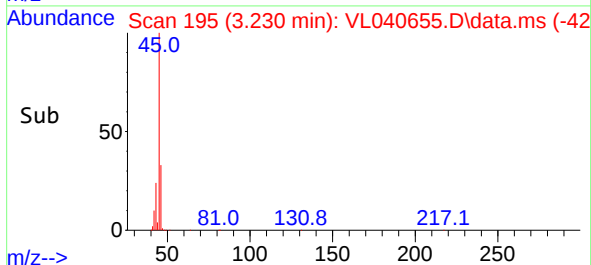
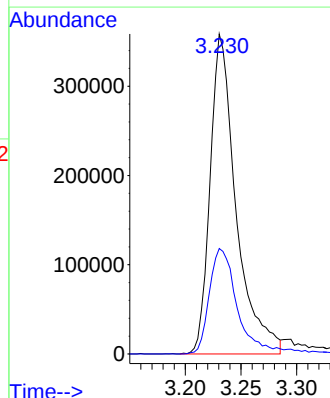
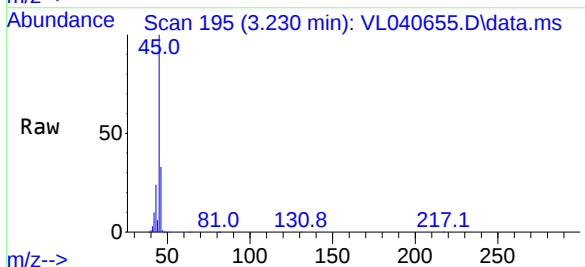
Acq: 5 Sep 2023 20:20

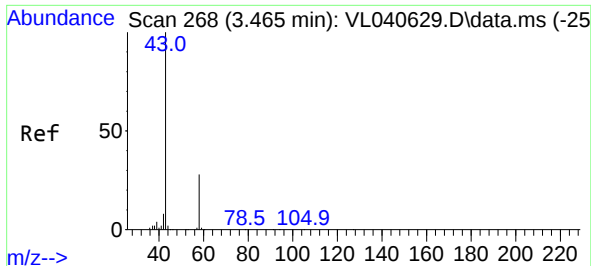
Tgt Ion: 45 Resp: 581401

Ion Ratio Lower Upper

45 100

46 37.3 14.2 56.6

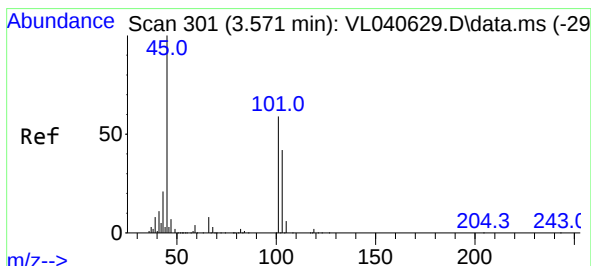
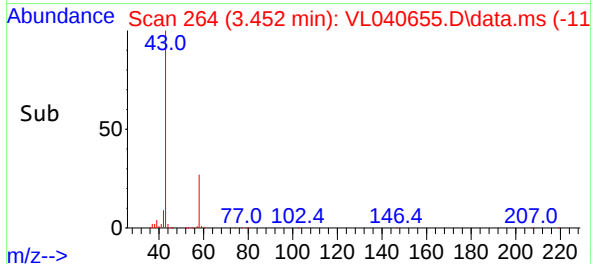
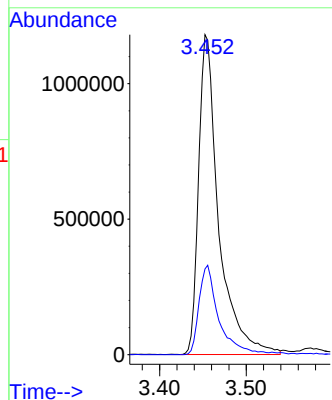
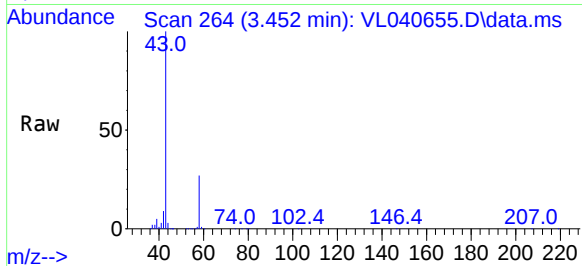




#15
Acetone
Concen: 19.295 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.013 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

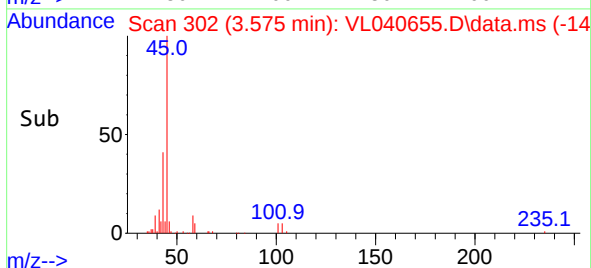
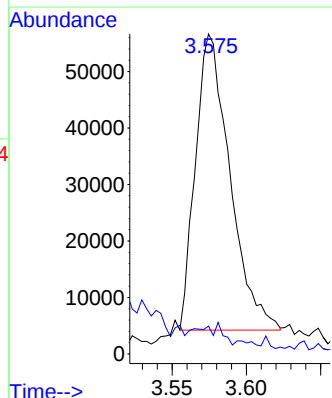
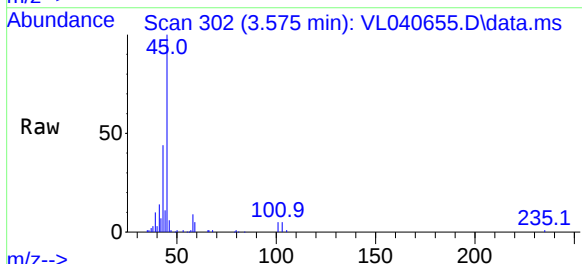
Instrument :
MSVOA_L
ClientSampleId :

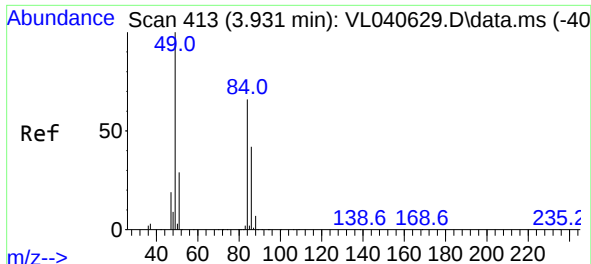
Tgt Ion: 43 Resp: 1899901
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#19
Isopropyl Alcohol
Concen: 1.354 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.003 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

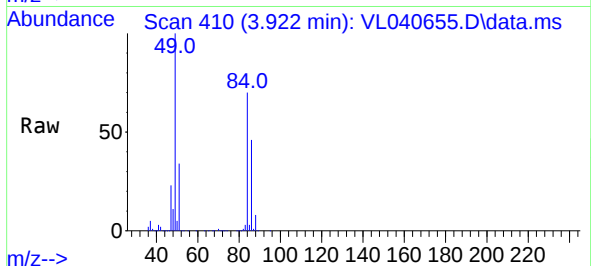
Tgt Ion: 45 Resp: 84561
Ion Ratio Lower Upper
45 100
58 630.0 1.9 2.9#





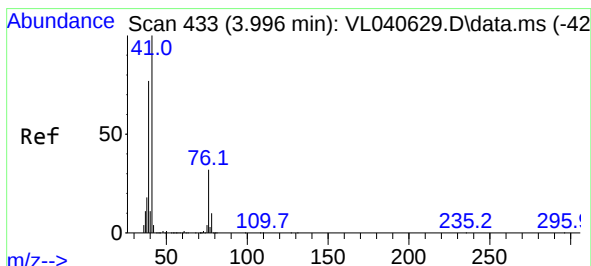
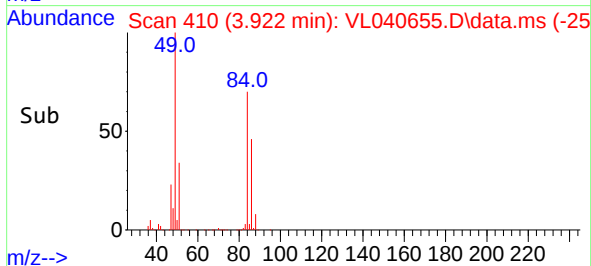
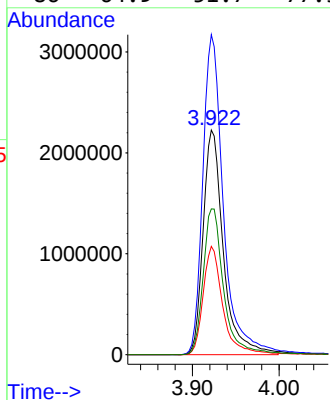
#20
Methylene Chloride
Concen: 75.407 ppbv
RT: 3.922 min Scan# 413
Delta R.T. -0.010 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 3628474

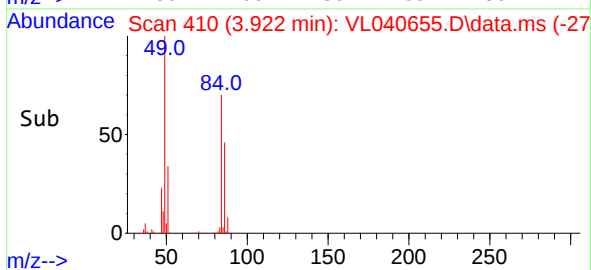
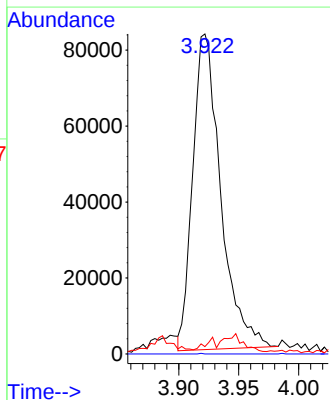
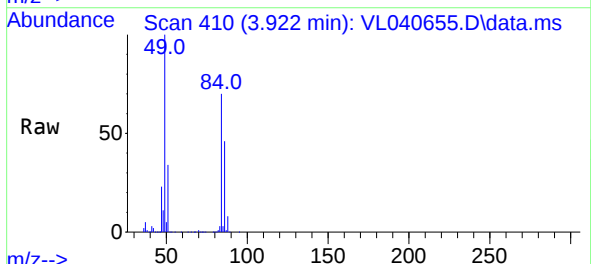
Ion	Ratio	Lower	Upper
84	100		
49	142.5	122.1	183.1
51	48.2	35.4	53.2
86	64.9	51.7	77.5

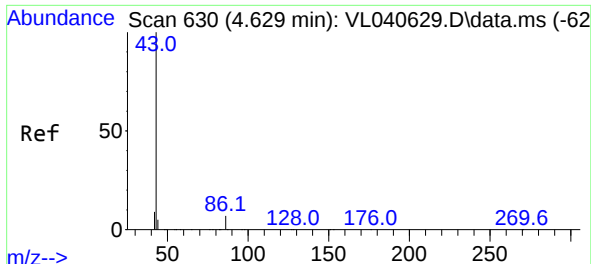


#21
Allyl Chloride
Concen: 2.071 ppbv
RT: 3.922 min Scan# 410
Delta R.T. -0.074 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 41 Resp: 134866

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.5	38.3#
39	6.3	61.8	92.6#

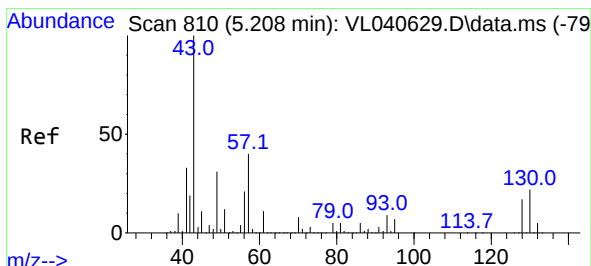
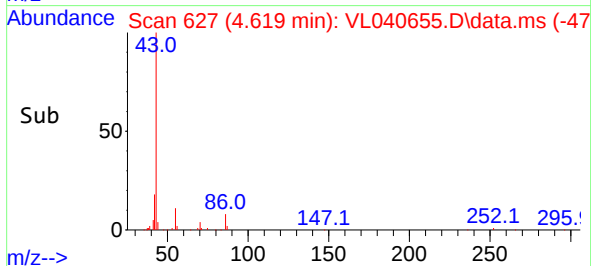
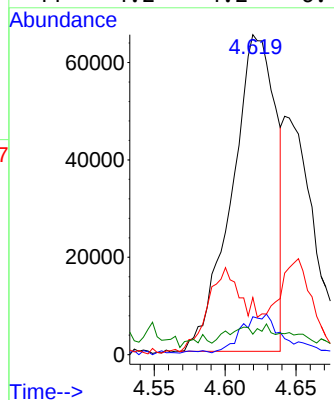
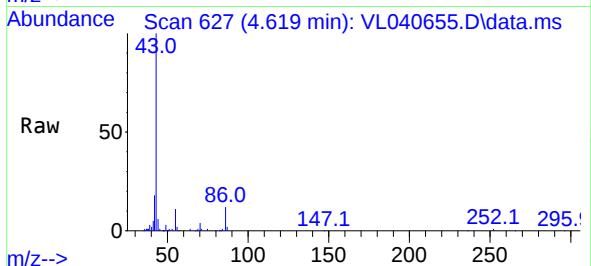




#23
 Vinyl Acetate
 Concen: 1.249 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040655.D
 Acq: 5 Sep 2023 20:20

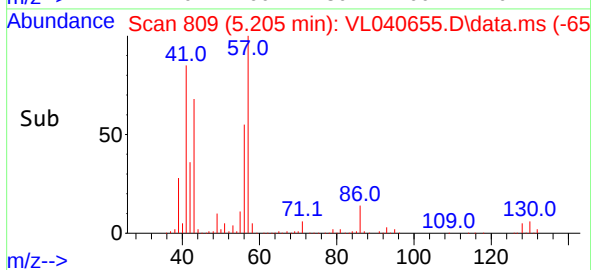
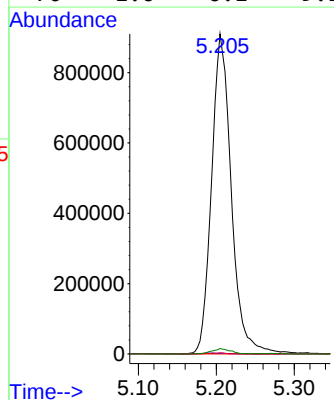
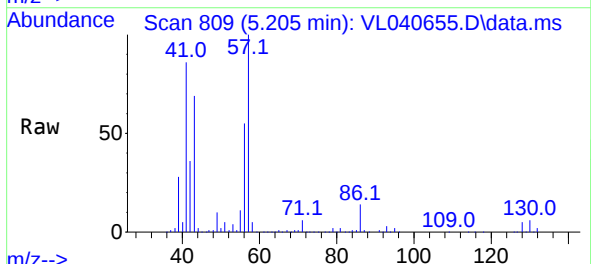
Instrument :
 MSVOA_1
 ClientSampleId :

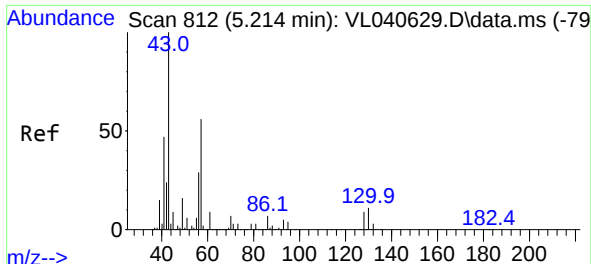
Tgt Ion: 43 Resp: 140112
 Ion Ratio Lower Upper
 43 100
 86 11.5 5.0 7.6#
 42 17.2 7.8 11.8#
 44 4.2 4.2 6.4#



#25
 Ethyl Acetate
 Concen: 8.636 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. -0.003 min
 Lab File: VL040655.D
 Acq: 5 Sep 2023 20:20

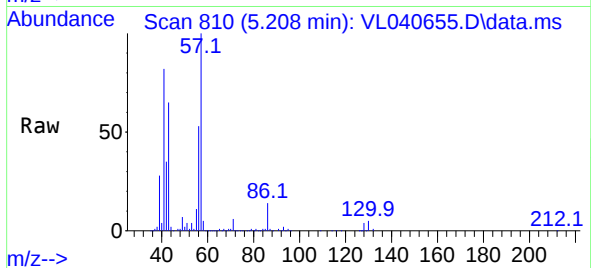
Tgt Ion: 43 Resp: 1596968
 Ion Ratio Lower Upper
 43 100
 45 0.4 8.2 12.4#
 61 0.3 8.3 12.5#
 70 1.6 6.1 9.1#





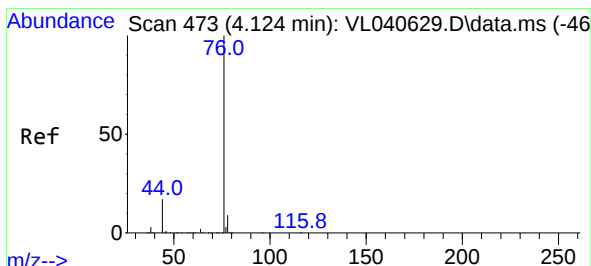
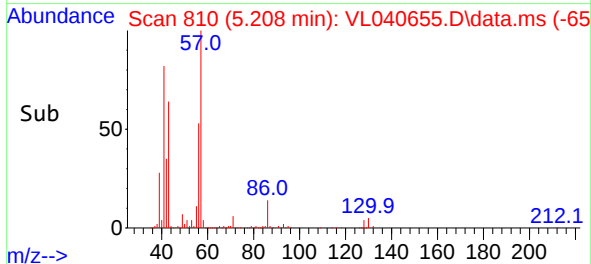
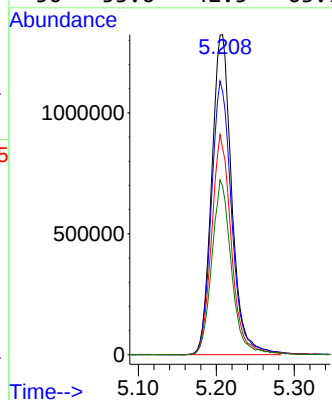
#26
Hexane
Concen: 26.441 ppbv
RT: 5.208 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 2365766

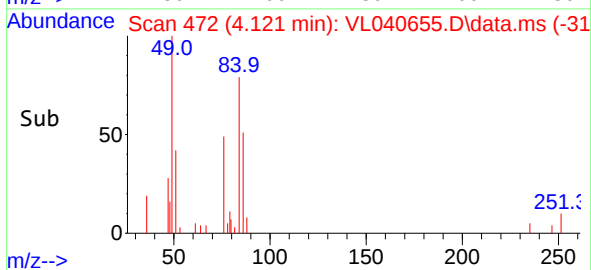
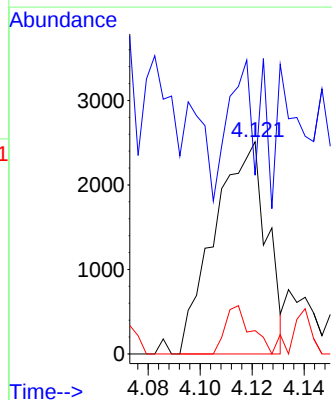
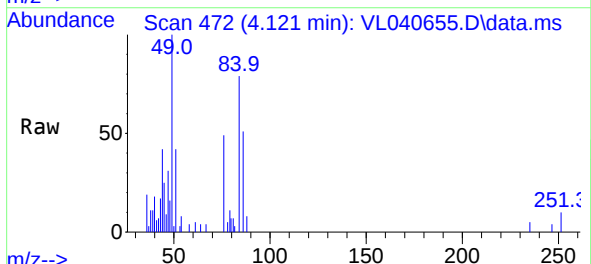
Ion	Ratio	Lower	Upper
57	100		
41	87.4	69.3	103.9
43	67.8	177.9	266.9#
56	53.6	42.5	63.7

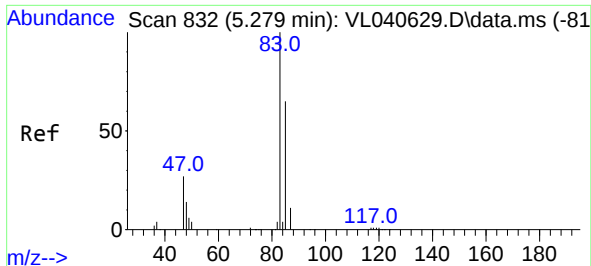


#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 4.121 min Scan# 472
Delta R.T. -0.003 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 76 Resp: 3476

Ion	Ratio	Lower	Upper
76	100		
44	37.2	14.3	21.5#
78	11.2	7.4	11.0#





#29

Chloroform

Concen: 0.738 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.010 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Instrument :

MSVOA_L

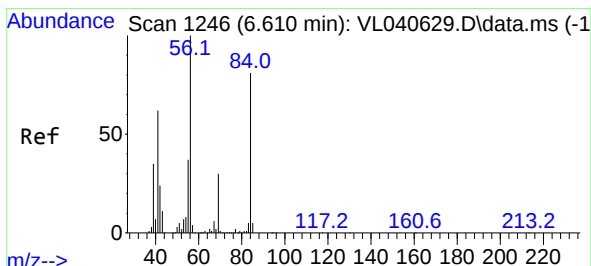
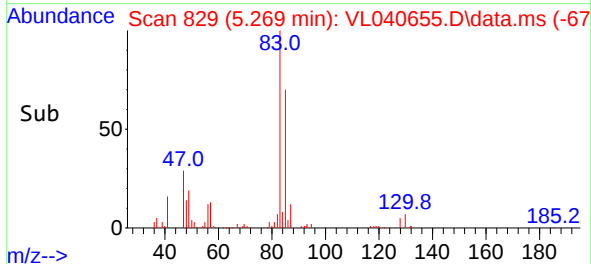
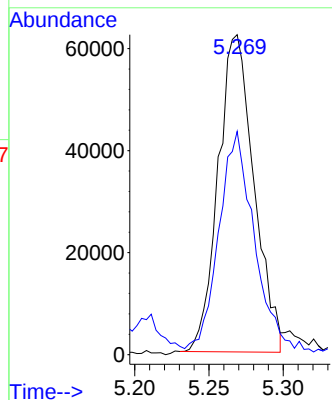
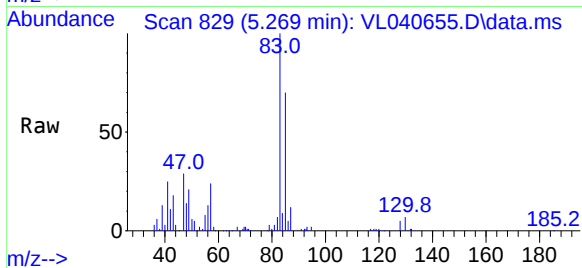
ClientSampleId :

Tgt Ion: 83 Resp: 104567

Ion Ratio Lower Upper

83 100

85 67.9 52.2 78.2



#30

Cyclohexane

Concen: 0.041 ppbv

RT: 6.597 min Scan# 1242

Delta R.T. -0.013 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

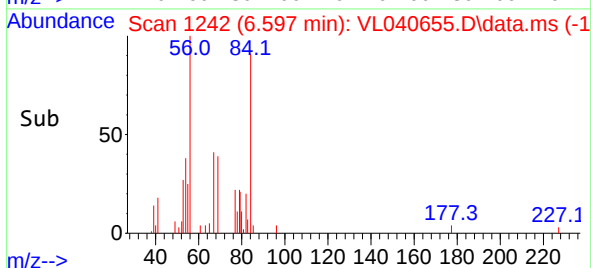
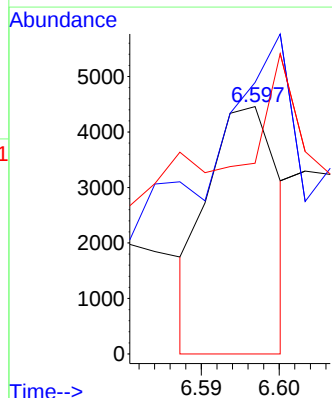
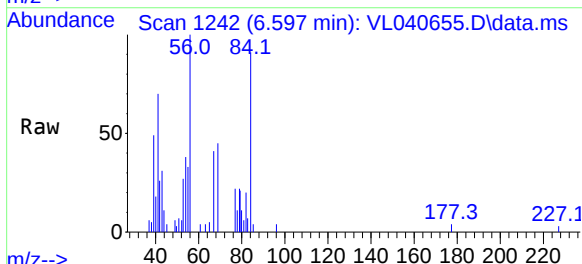
Tgt Ion: 84 Resp: 2825

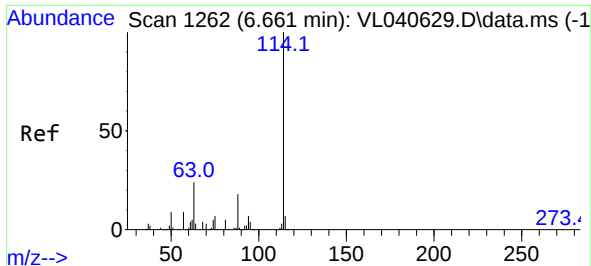
Ion Ratio Lower Upper

84 100

56 0.0 105.4 158.2#

41 0.0 64.2 96.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

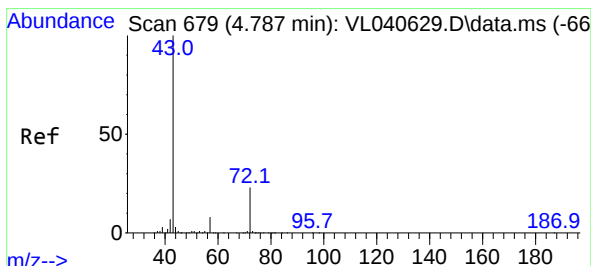
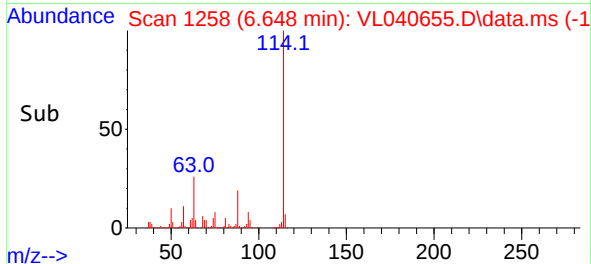
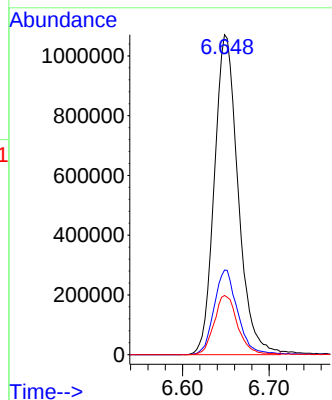
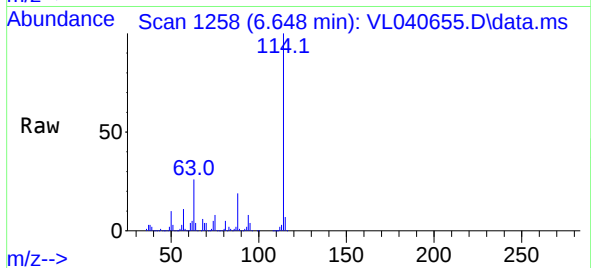
Tgt Ion:114 Resp: 2036999

Ion Ratio Lower Upper

114 100

63 26.6 20.2 30.2

88 18.6 14.1 21.1



#34

2-Butanone

Concen: 1.728 ppbv

RT: 4.780 min Scan# 677

Delta R.T. -0.006 min

Lab File: VL040655.D

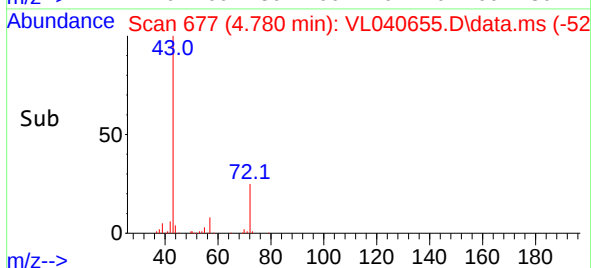
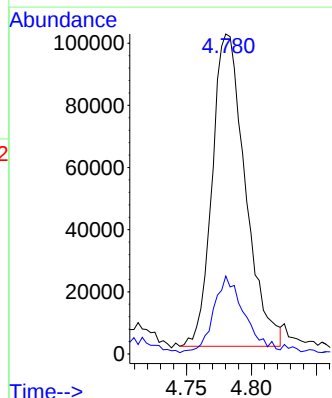
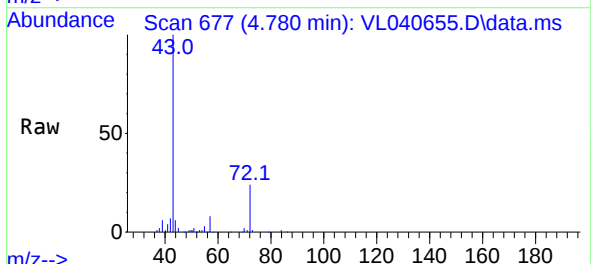
Acq: 5 Sep 2023 20:20

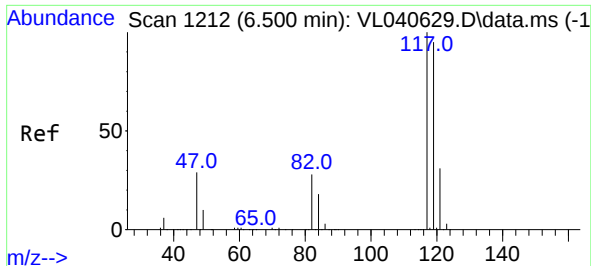
Tgt Ion: 43 Resp: 177537

Ion Ratio Lower Upper

43 100

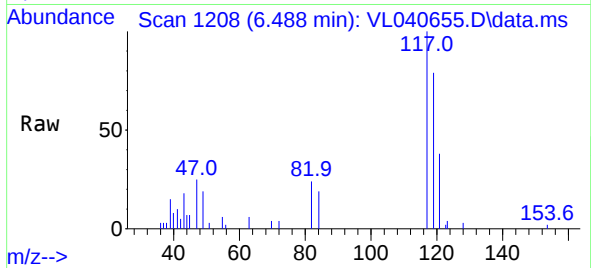
72 25.4 19.2 28.8



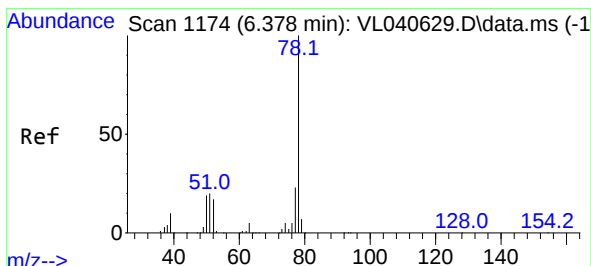
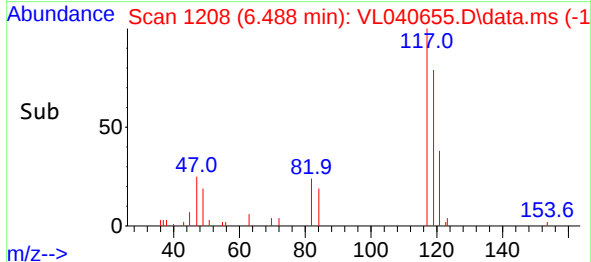
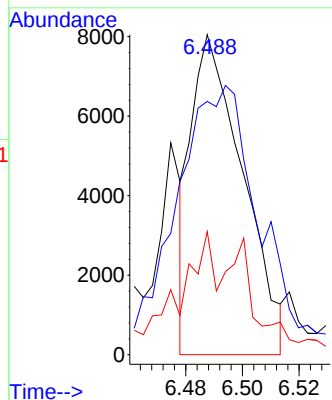


#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 6.488 min Scan# 1169
Delta R.T. -0.013 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Instrument :
MSVOA_L
ClientSampleId :

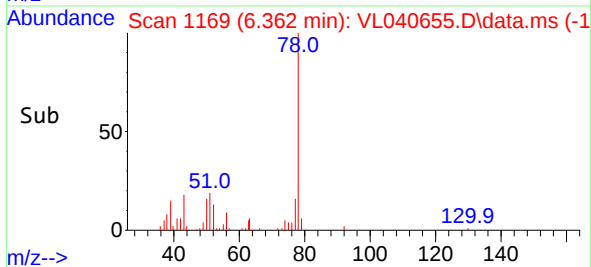
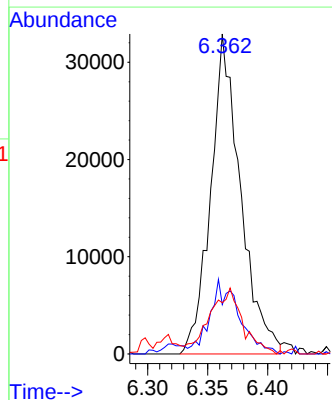
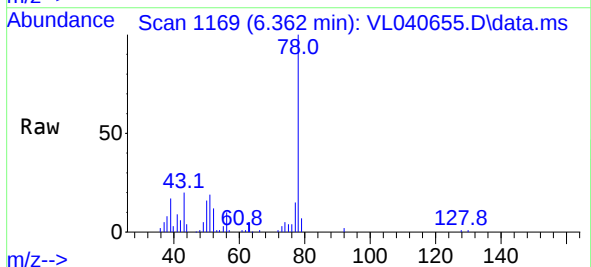


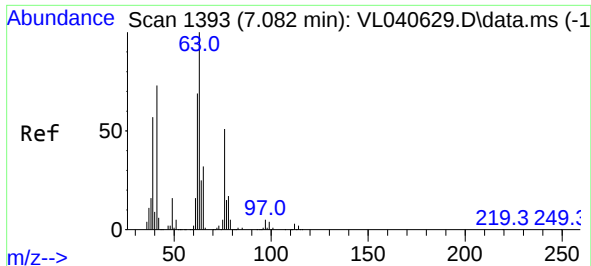
Tgt Ion:117 Resp: 10203
Ion Ratio Lower Upper
117 100
119 60.2 75.6 113.4#
121 33.5 24.9 37.3



#36
Benzene
Concen: 0.351 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.016 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 78 Resp: 56861
Ion Ratio Lower Upper
78 100
77 15.5 18.2 27.2#
50 14.9 15.0 22.6#





#39

1,2-Dichloropropane

Concen: 8.614 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

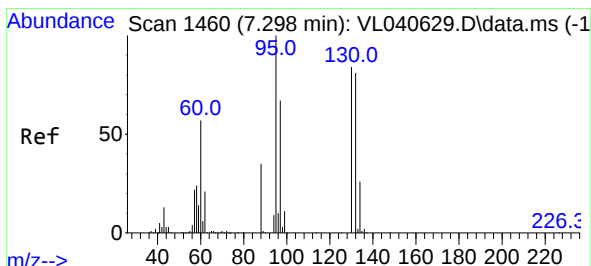
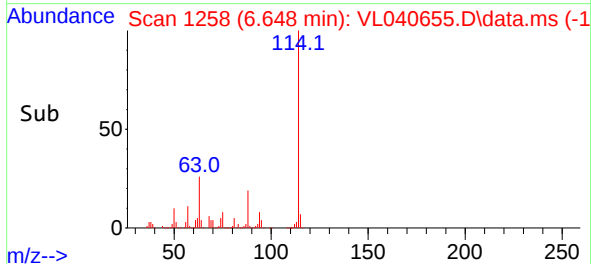
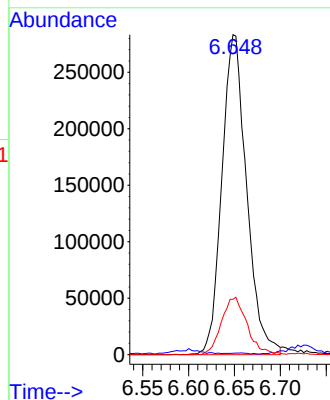
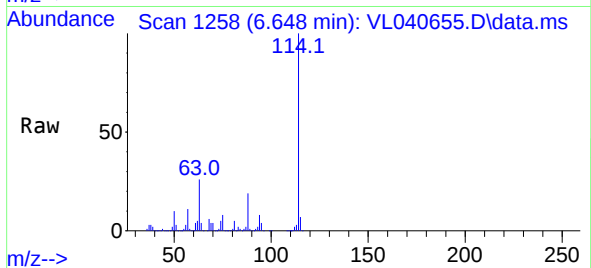
Tgt Ion: 63 Resp: 531054

Ion Ratio Lower Upper

63 100

41 0.0 58.2 87.2#

62 17.3 55.0 82.4#



#40

1,4-Dioxane

Concen: 0.089 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.013 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Tgt Ion: 88 Resp: 2070

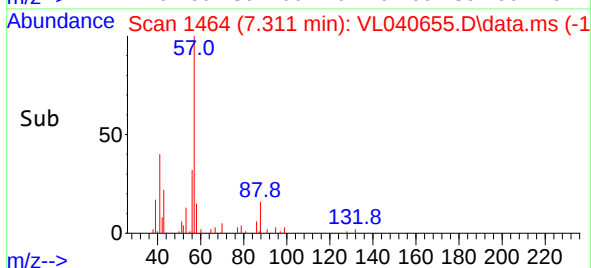
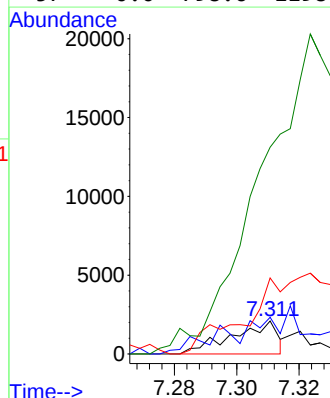
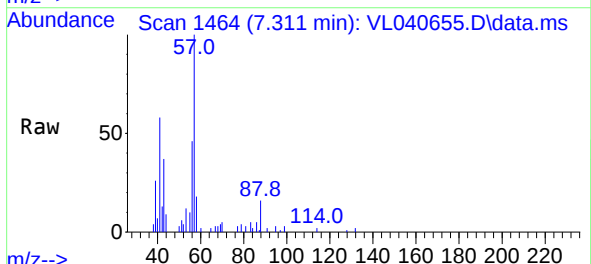
Ion Ratio Lower Upper

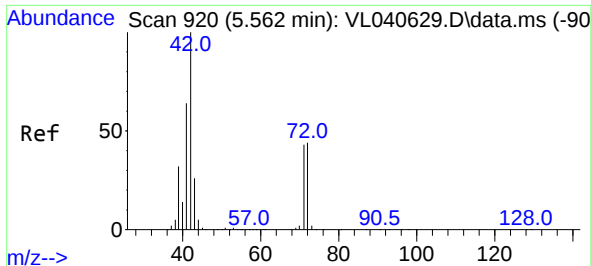
88 100

58 0.0 92.8 139.2#

43 0.0 179.1 268.7#

57 0.0 798.6 1198.0#

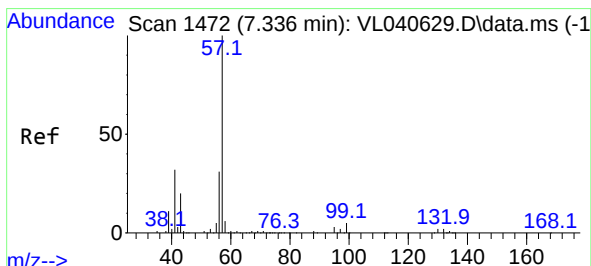
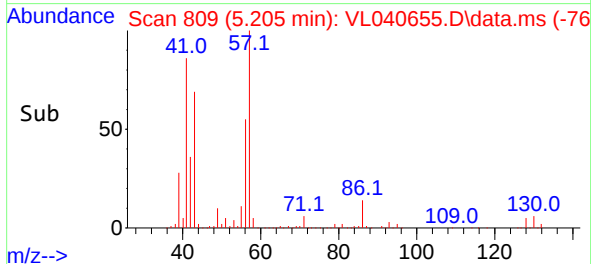
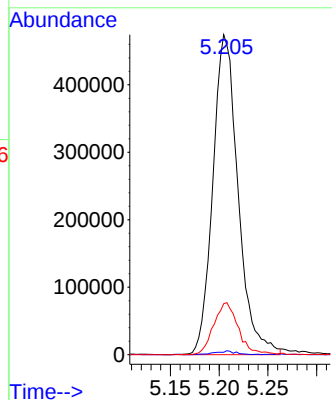
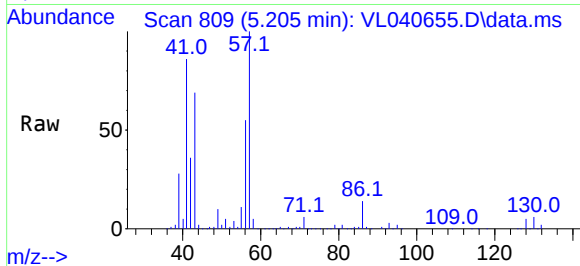




#41
Tetrahydrofuran
Concen: 14.720 ppbv
RT: 5.205 min Scan# 80
Delta R.T. -0.357 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

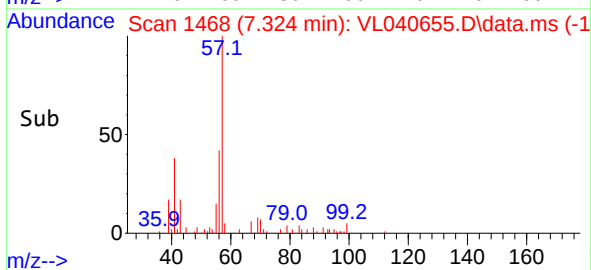
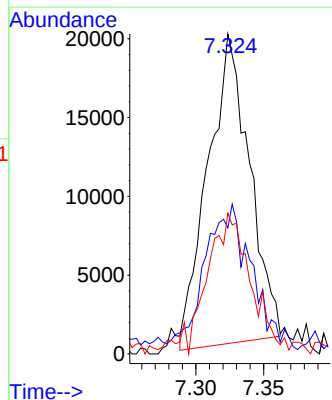
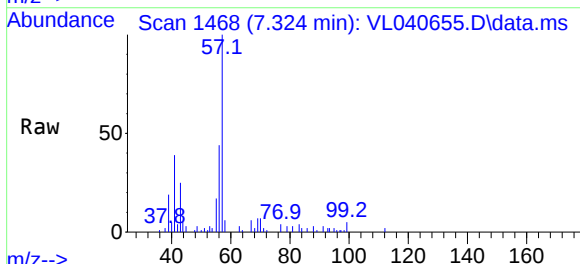
Instrument :
MSVOA_L
ClientSampleId :

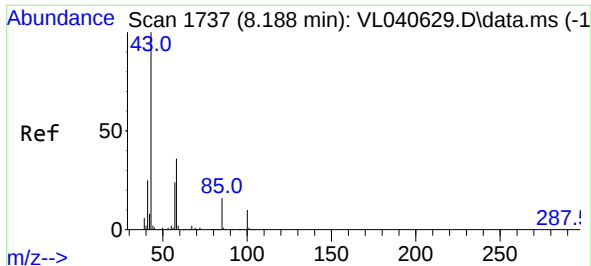
Tgt Ion: 42 Resp: 854654
Ion Ratio Lower Upper
42 100
72 1.0 34.2 51.4#
71 16.1 33.4 50.0#



#44
2,2,4-Trimethylpentane
Concen: 0.161 ppbv
RT: 7.324 min Scan# 1468
Delta R.T. -0.013 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 57 Resp: 42084
Ion Ratio Lower Upper
57 100
41 56.3 26.2 39.4#
56 50.8 24.7 37.1#





#50

4-Methyl-2-Pentanone

Concen: 0.034 ppbv

RT: 8.179 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL040655.D

Acq: 5 Sep 2023 20:20

Instrument :

MSVOA_L

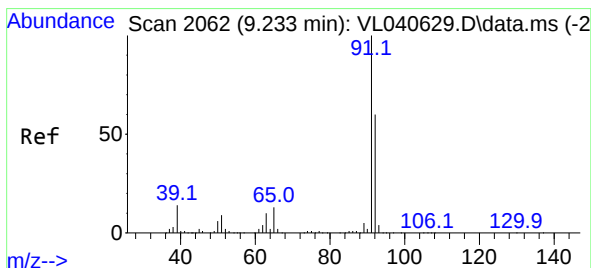
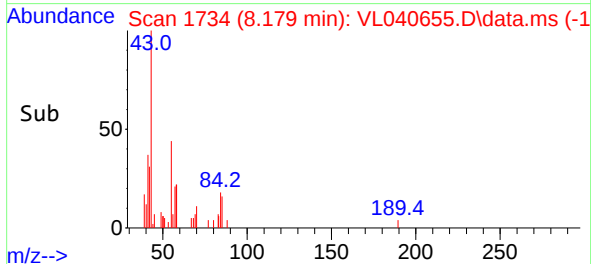
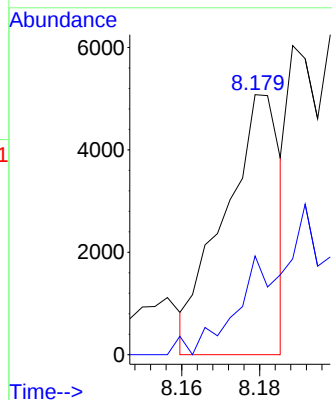
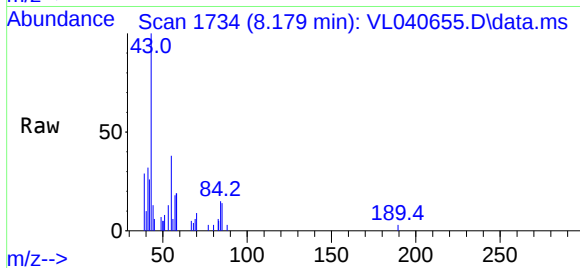
ClientSampleId :

Tgt Ion: 43 Resp: 5045

Ion Ratio Lower Upper

43 100

58 0.0 29.2 43.8#



#53

Toluene

Concen: 0.692 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. -0.013 min

Lab File: VL040655.D

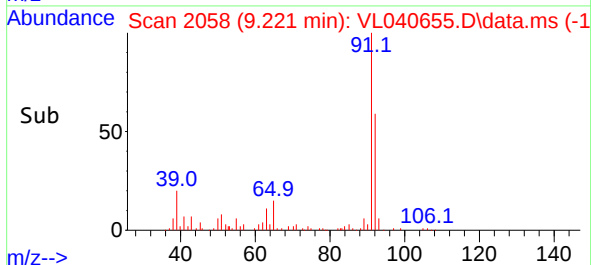
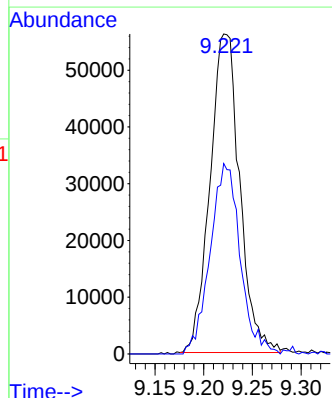
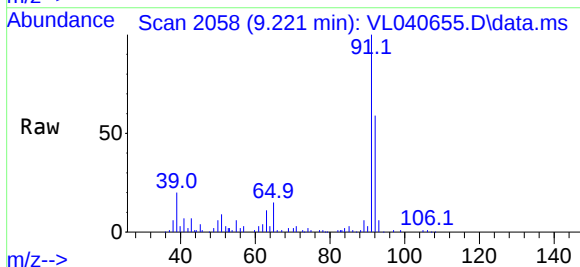
Acq: 5 Sep 2023 20:20

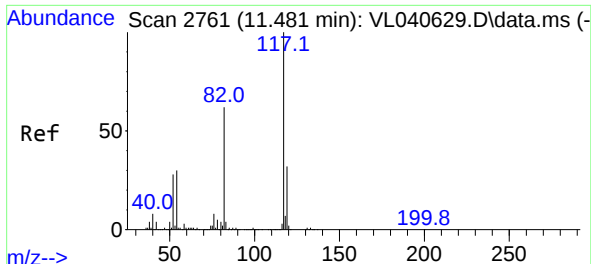
Tgt Ion: 91 Resp: 119220

Ion Ratio Lower Upper

91 100

92 60.8 48.0 72.0

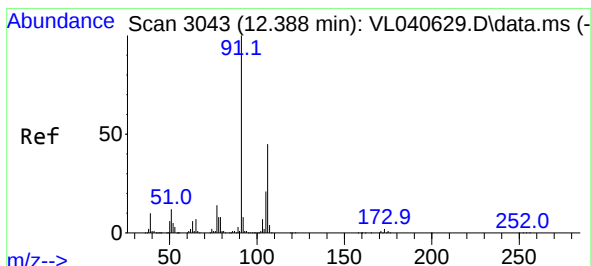
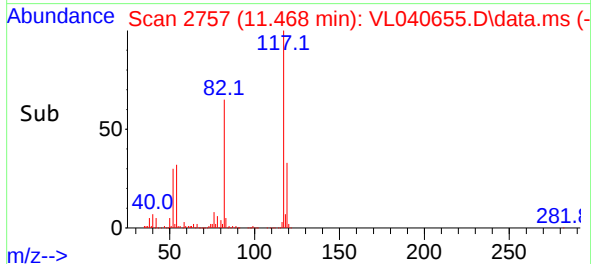
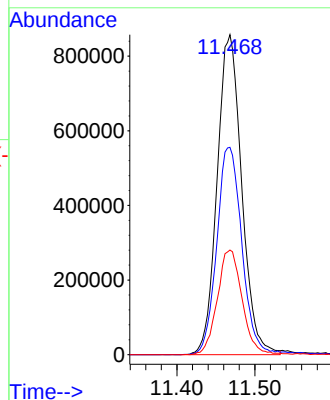
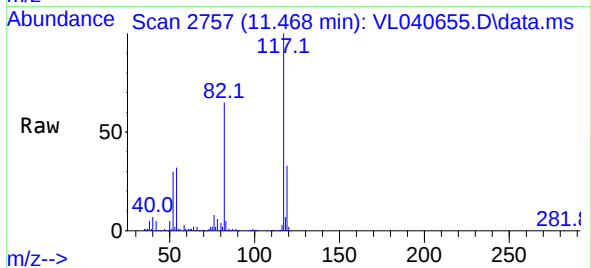




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

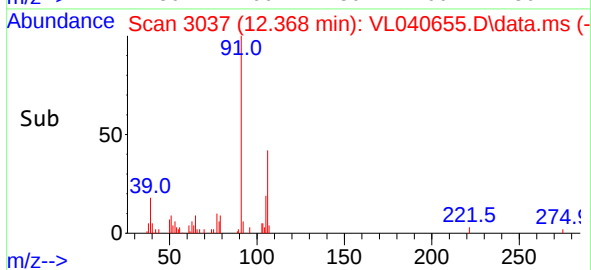
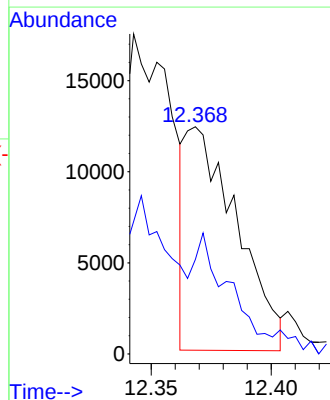
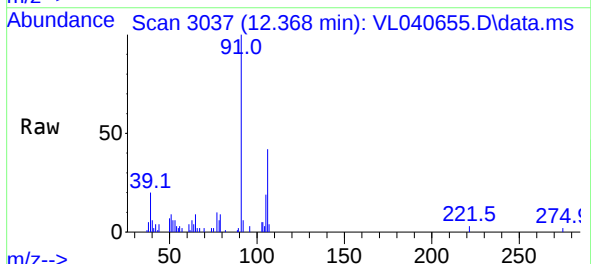
Instrument :
MSVOA_L
ClientSampleId :

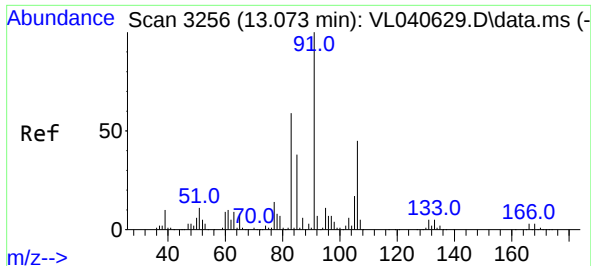
Tgt Ion:117 Resp: 1883316
Ion Ratio Lower Upper
117 100
82 67.1 49.5 74.3
119 33.2 24.5 36.7



#59
m/p-Xylene
Concen: 0.088 ppbv
RT: 12.368 min Scan# 3037
Delta R.T. -0.019 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

Tgt Ion: 91 Resp: 18188
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

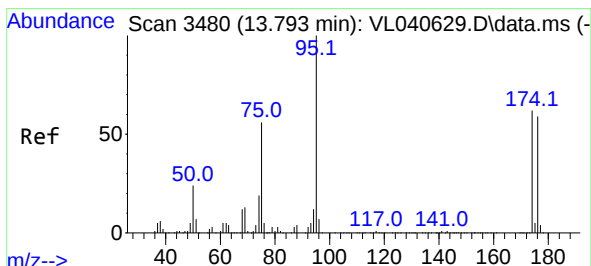
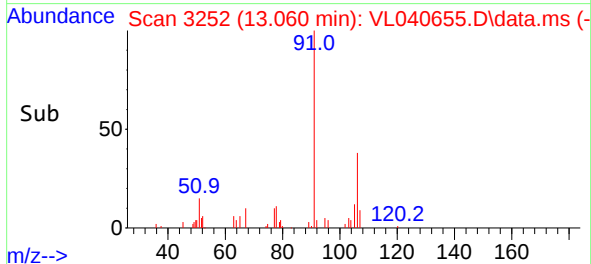
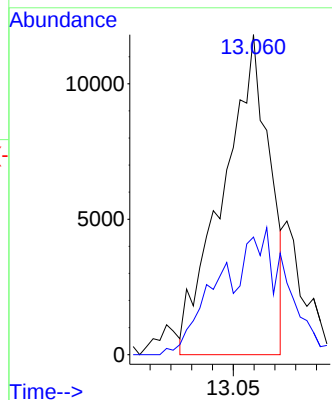
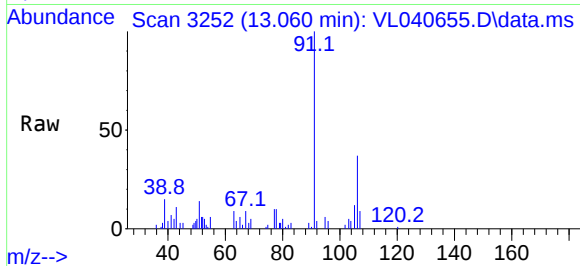




#60
o-Xylene
Concen: 0.093 ppbv
RT: 13.060 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

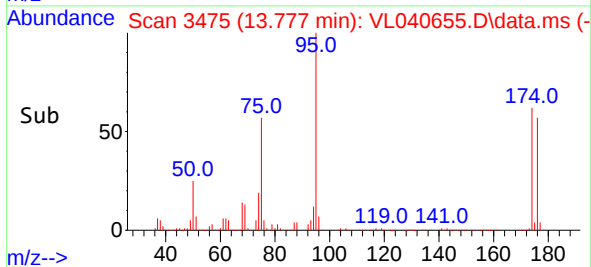
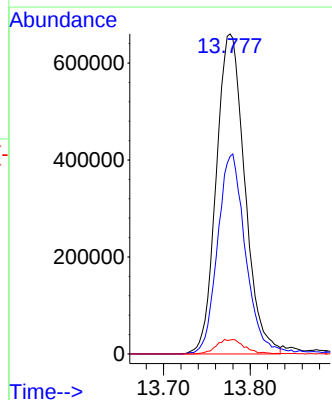
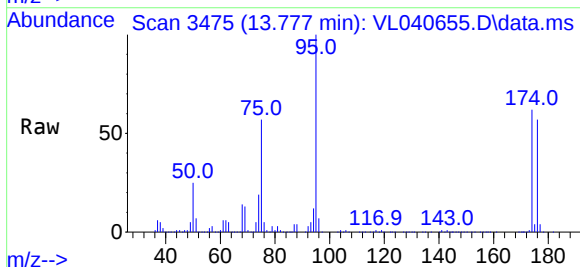
Instrument :
MSVOA_L
ClientSampleId :

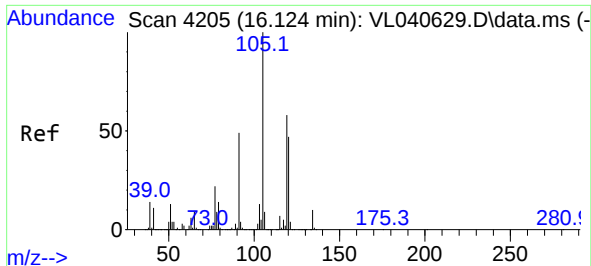
Tgt Ion: 91 Resp: 18329
Ion Ratio Lower Upper
91 100
106 55.8 22.5 67.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.092 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.016 min
Lab File: VL040655.D
Acq: 5 Sep 2023 20:20

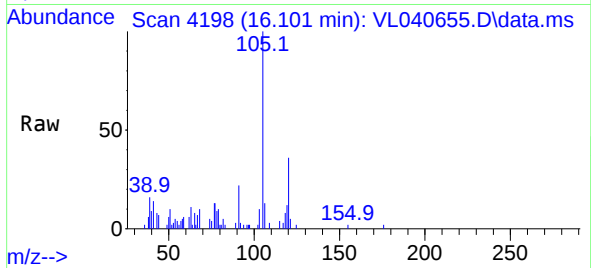
Tgt Ion: 95 Resp: 1511568
Ion Ratio Lower Upper
95 100
174 61.9 49.1 73.7
175 4.6 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.044 ppbv
 RT: 16.101 min Scan# 41
 Delta R.T. -0.023 min
 Lab File: VL040655.D
 Acq: 5 Sep 2023 20:20

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:105 Resp: 10099

Ion	Ratio	Lower	Upper
105	100		
120	36.0	37.7	56.5#
91	22.0	41.2	61.8#
77	10.1	18.3	27.5#

