

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
 Data File : VL040976.D
 Acq On : 15 Jan 2024 18:53
 Operator : SY/MD
 Sample : P1138-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 16 03:40:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 16 03:31:29 2024
 Response via : Initial Calibration

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

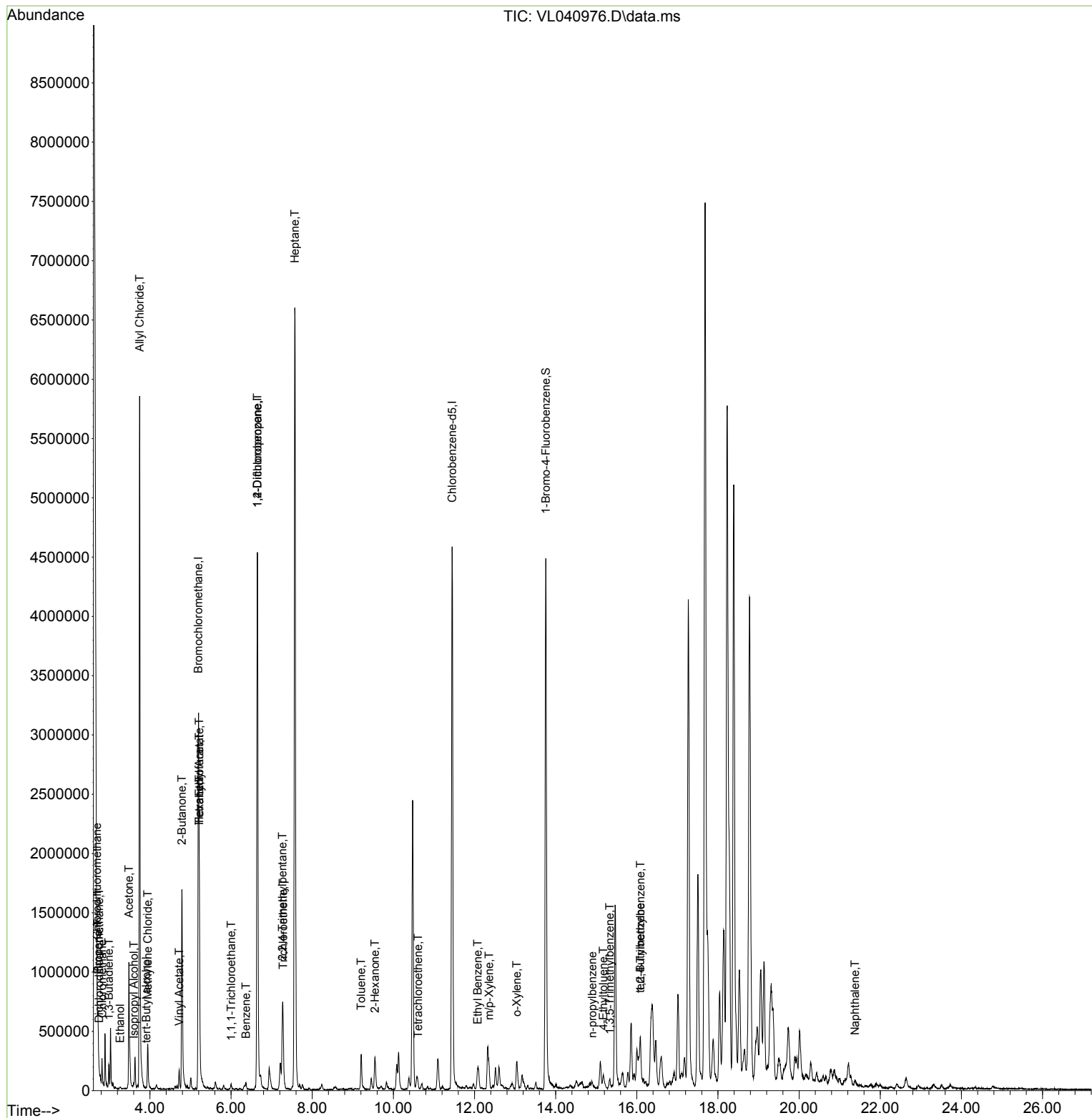
Internal Standards						
1) Bromochloromethane	5.195	49	1306924	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	3543947	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	3161921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2309571	9.916	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	20200	0.081	ppbv	90
3) Chlorodifluoromethane	2.697	51	9906	0.050	ppbv #	86
4) Chloromethane	2.822	50	3078	0.042	ppbv #	72
9) Propene	2.719	41	116395	1.794	ppbv	96
10) Heptane	7.571	43	3256375	20.187	ppbv	97
13) Ethanol	3.266	45	13552	0.828	ppbv	77
15) Acetone	3.481	43	1045523	6.670	ppbv #	88
16) 1,3-Butadiene	2.986	39	45649	0.676	ppbv #	29
17) tert-Butyl alcohol	3.912	59	6350	0.055	ppbv #	72
19) Isopropyl Alcohol	3.603	45	23421	0.286	ppbv #	95
20) Methylene Chloride	3.947	84	113493	2.031	ppbv	95
21) Allyl Chloride	3.745	41	1779618	19.208	ppbv #	48
23) Vinyl Acetate	4.722	43	44891	0.260	ppbv #	13
25) Ethyl Acetate	5.214	43	370806	1.365	ppbv #	77
26) Hexane	5.217	57	547158	4.546	ppbv #	39
32) 1,1,1-Trichloroethane	6.002	97	21109	0.107	ppbv	88
34) 2-Butanone	4.787	43	2060549	10.991	ppbv	99
36) Benzene	6.365	78	26065	0.094	ppbv #	92
38) Trichloroethene	7.282	130	97766	0.940	ppbv	92
39) 1,2-Dichloropropane	6.648	63	857362	7.875	ppbv #	24
41) Tetrahydrofuran	5.217	42	197669	1.733	ppbv #	52
44) 2,2,4-Trimethylpentane	7.266	57	50742	0.108	ppbv #	1
51) 2-Hexanone	9.548	43	252675	1.236	ppbv #	95
52) Tetrachloroethene	10.610	164	4678	0.050	ppbv #	58
53) Toluene	9.208	91	234736	0.764	ppbv	97
58) Ethyl Benzene	12.076	91	106283	0.262	ppbv	92
59) m/p-Xylene	12.359	91	74188	0.215	ppbv #	100
60) o-Xylene	13.044	91	151948	0.467	ppbv	100
64) n-propylbenzene	14.902	120	2497	0.021	ppbv #	1
65) tert-Butylbenzene	16.082	119	9526	0.023	ppbv #	1
72) 4-Ethyltoluene	15.175	105	77201	0.216	ppbv	97
73) 1,3,5-Trimethylbenzene	15.336	105	24475	0.079	ppbv	91
74) 1,2,4-Trimethylbenzene	16.088	105	293381	0.855	ppbv #	68
79) Naphthalene	21.378	128	8609	0.052	ppbv #	81

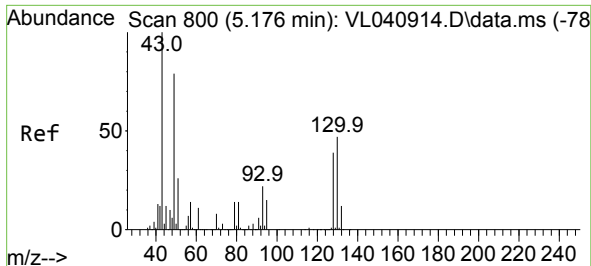
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 16 03:40:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
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QLast Update : Tue Jan 16 03:31:29 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.019 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

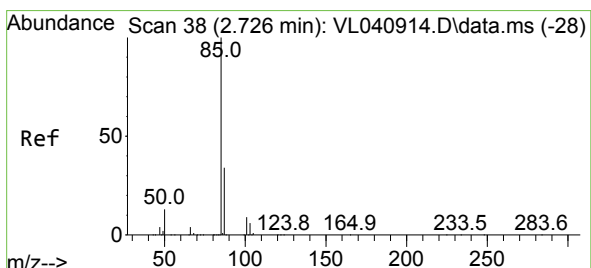
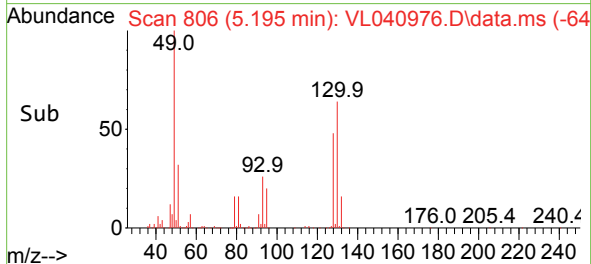
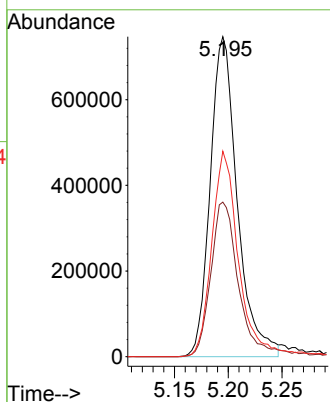
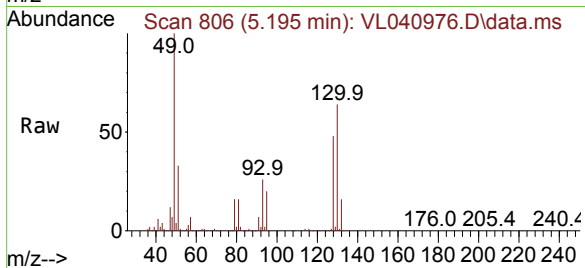
Tgt Ion: 49 Resp: 1306924

Ion Ratio Lower Upper

49 100

128 51.0 23.8 71.2

130 65.3 30.1 90.5



#2

Dichlorodifluoromethane

Concen: 0.081 ppbv

RT: 2.748 min Scan# 45

Delta R.T. 0.026 min

Lab File: VL040976.D

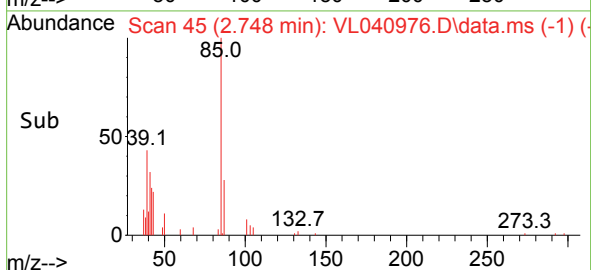
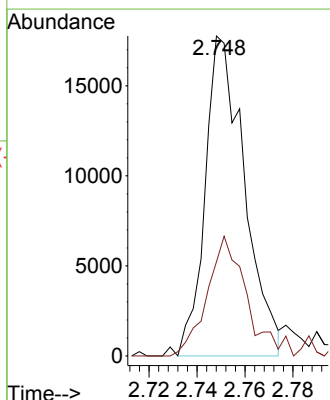
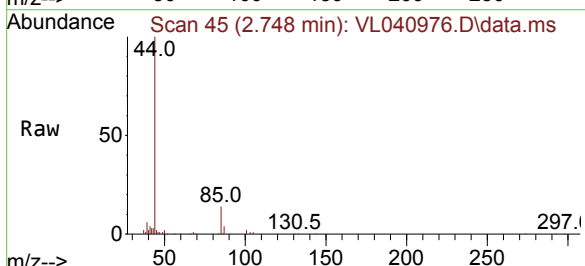
Acq: 15 Jan 2024 18:53

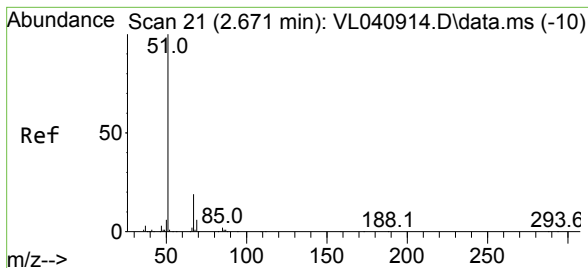
Tgt Ion: 85 Resp: 20200

Ion Ratio Lower Upper

85 100

87 28.1 27.0 40.6

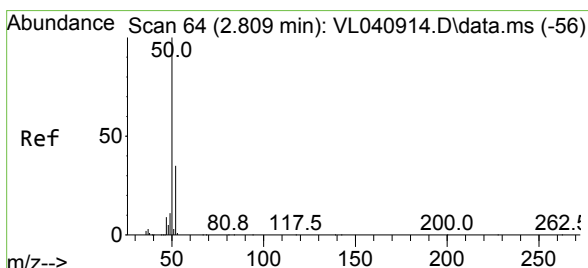
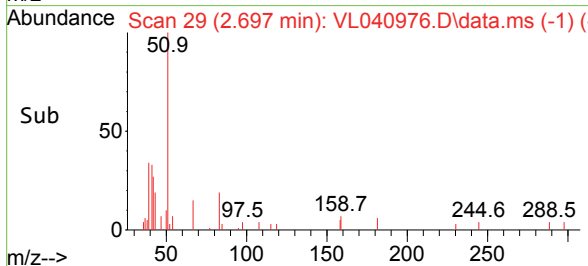
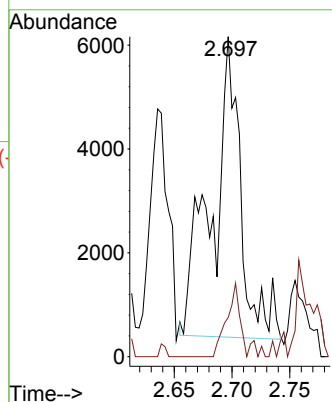
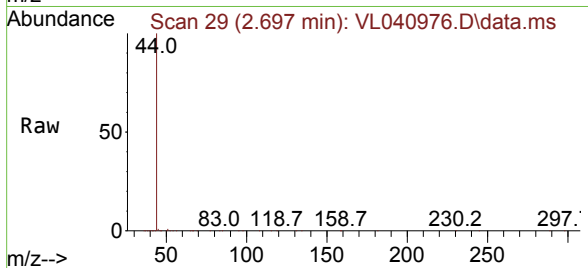




#3
 Chlorodifluoromethane
 Concen: 0.050 ppbv
 RT: 2.697 min Scan# 24
 Delta R.T. 0.029 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53

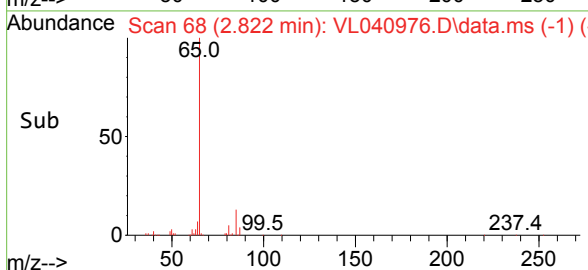
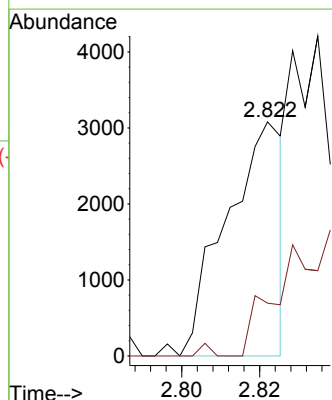
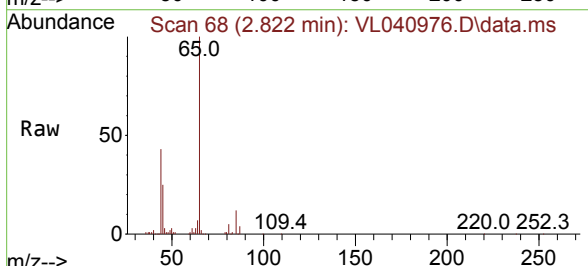
Instrument :
 MSVOA_L
 ClientSampleId :

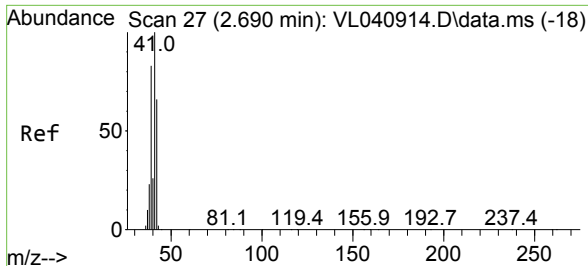
Tgt Ion: 51 Resp: 9906
 Ion Ratio Lower Upper
 51 100
 67 12.3 14.7 22.1#



#4
 Chloromethane
 Concen: 0.042 ppbv
 RT: 2.822 min Scan# 68
 Delta R.T. 0.016 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53

Tgt Ion: 50 Resp: 3078
 Ion Ratio Lower Upper
 50 100
 52 18.7 28.0 42.0#





#9

Propene

Concen: 1.794 ppbv

RT: 2.719 min Scan# 30

Delta R.T. 0.032 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

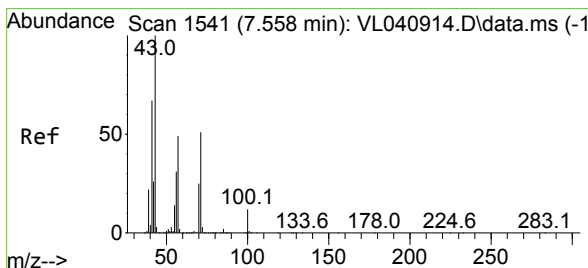
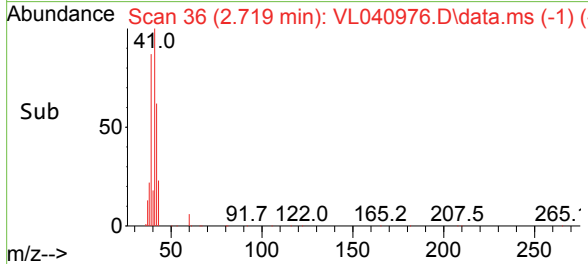
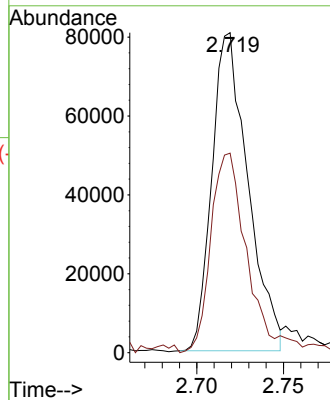
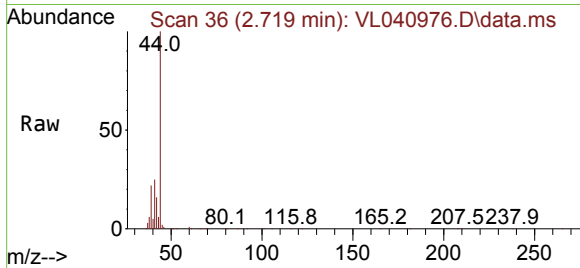
ClientSampleId :

Tgt Ion: 41 Resp: 116395

Ion Ratio Lower Upper

41 100

42 66.3 55.8 83.6



#10

Heptane

Concen: 20.187 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.013 min

Lab File: VL040976.D

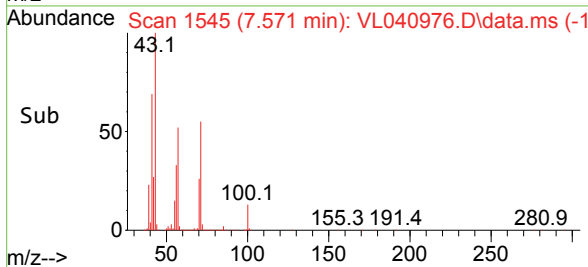
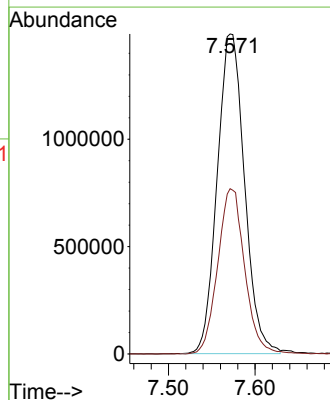
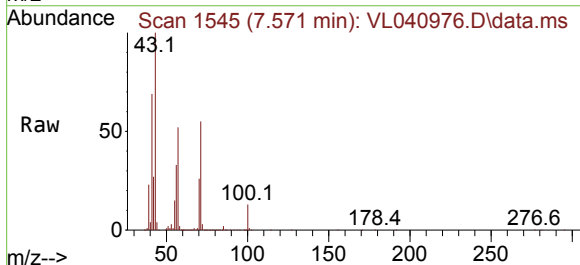
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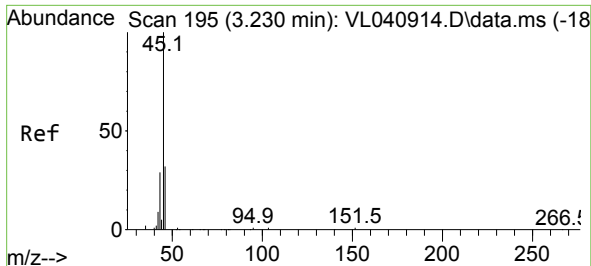
Tgt Ion: 43 Resp: 3256375

Ion Ratio Lower Upper

43 100

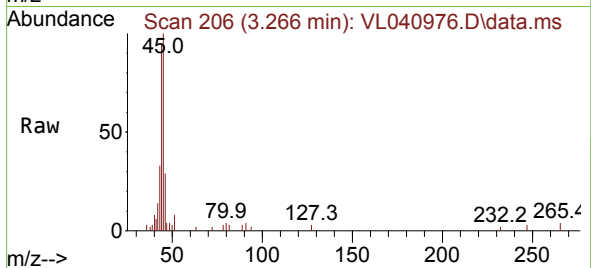
57 51.5 39.3 58.9



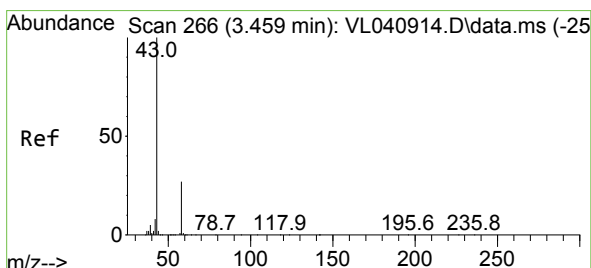
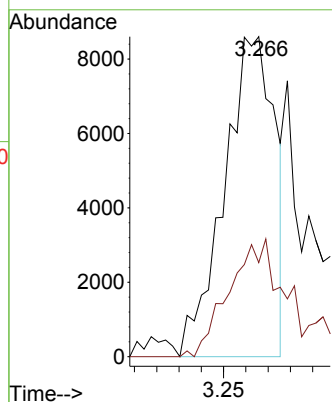
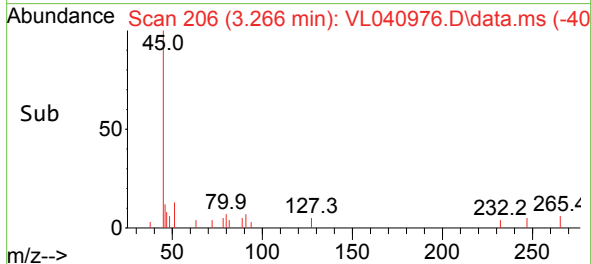


#13
Ethanol
Concen: 0.828 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.035 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :

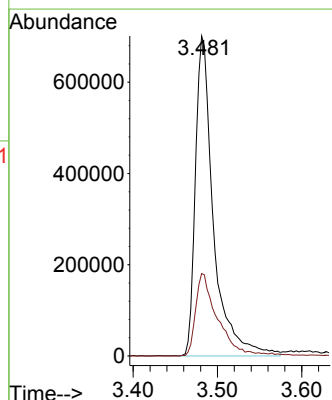
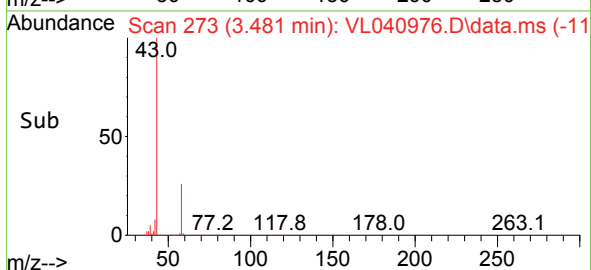
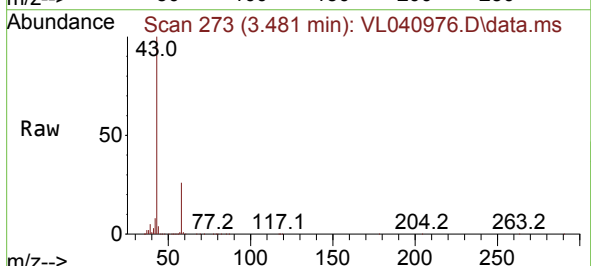


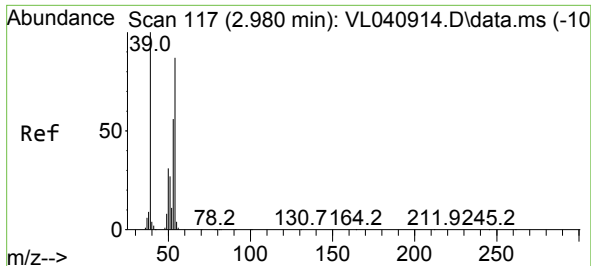
Tgt Ion: 45 Resp: 13552
Ion Ratio Lower Upper
45 100
46 51.2 15.0 60.0



#15
Acetone
Concen: 6.670 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.026 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 43 Resp: 1045523
Ion Ratio Lower Upper
43 100
58 32.0 20.6 30.8#

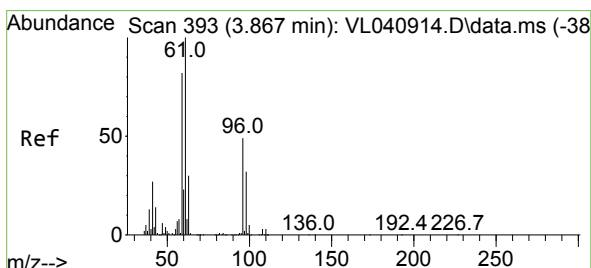
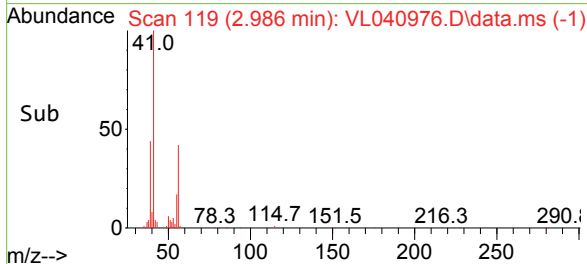
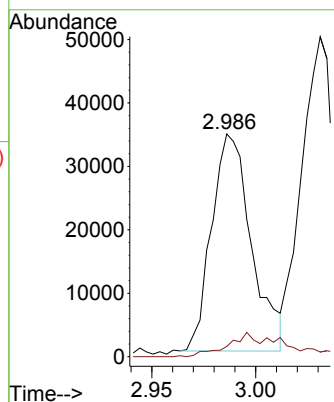
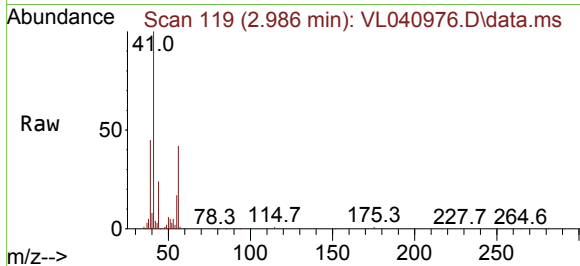




#16
1,3-Butadiene
Concen: 0.676 ppbv
RT: 2.986 min Scan# 117
Delta R.T. 0.010 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

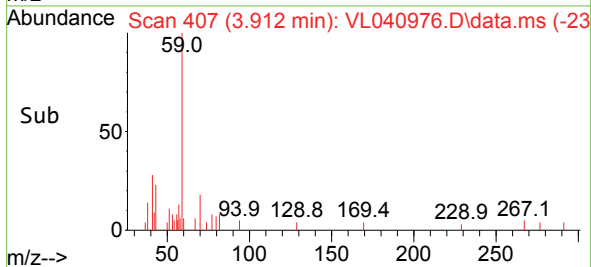
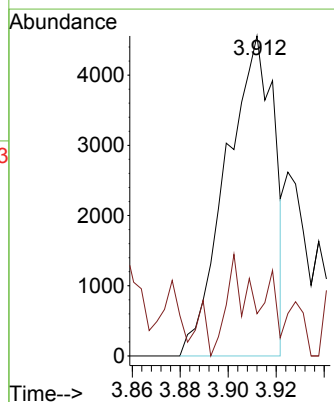
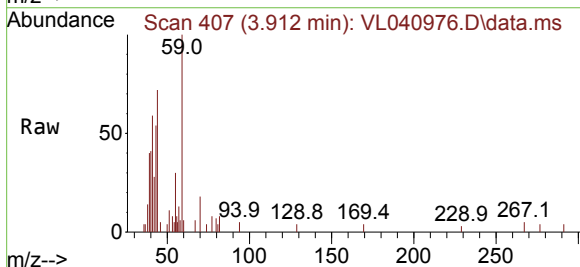
Instrument :
MSVOA_L
ClientSampleId :

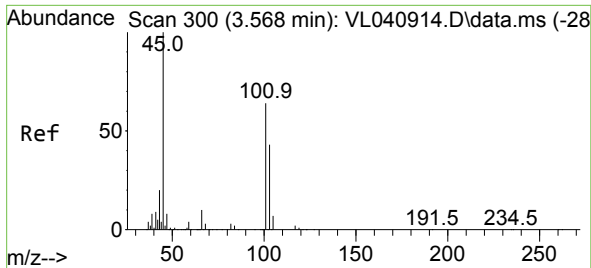
Tgt Ion: 39 Resp: 45649
Ion Ratio Lower Upper
39 100
54 16.8 63.8 95.6#



#17
tert-Butyl alcohol
Concen: 0.055 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.045 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 59 Resp: 6350
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.286 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.038 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

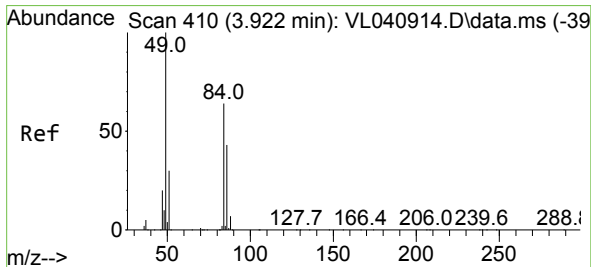
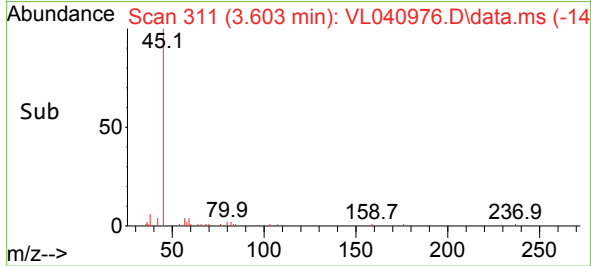
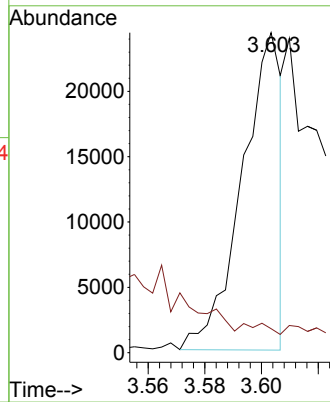
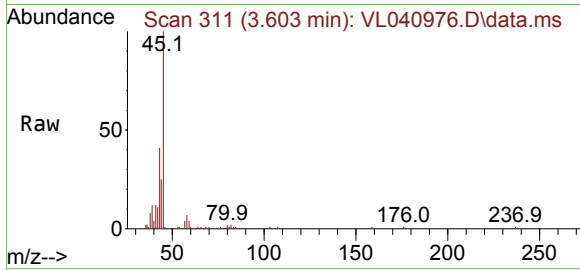
ClientSampleId :

Tgt Ion: 45 Resp: 23421

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 2.031 ppbv

RT: 3.947 min Scan# 418

Delta R.T. 0.029 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Tgt Ion: 84 Resp: 113493

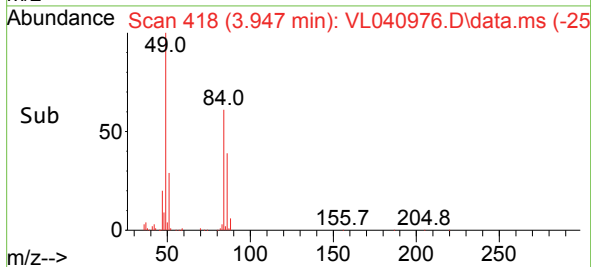
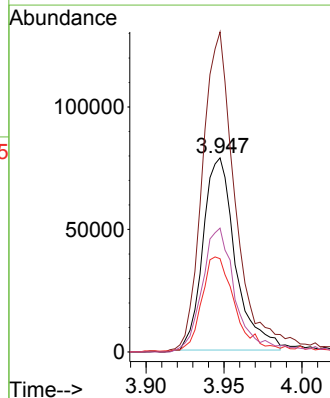
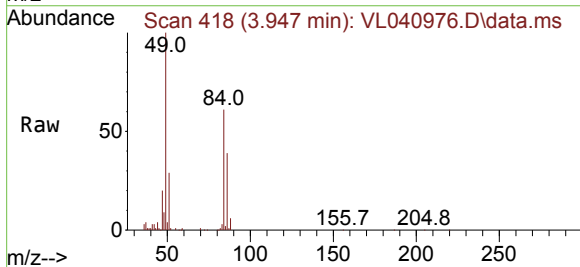
Ion Ratio Lower Upper

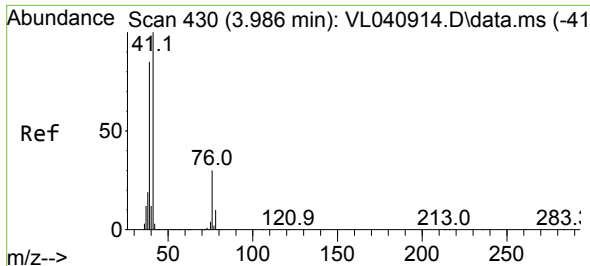
84 100

49 162.9 124.6 187.0

51 47.5 37.2 55.8

86 62.2 53.4 80.0

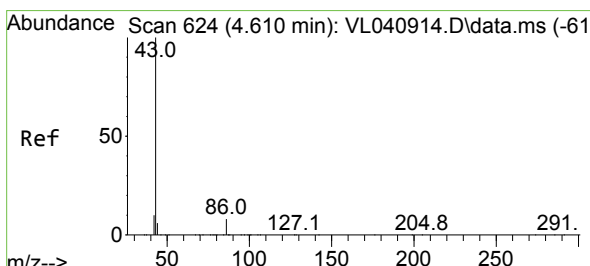
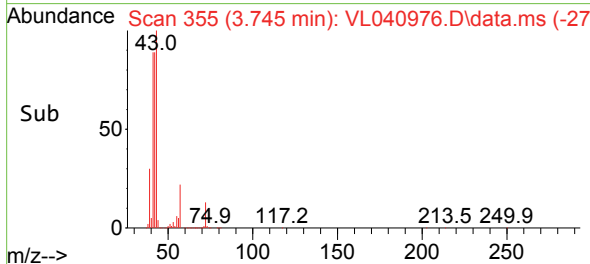
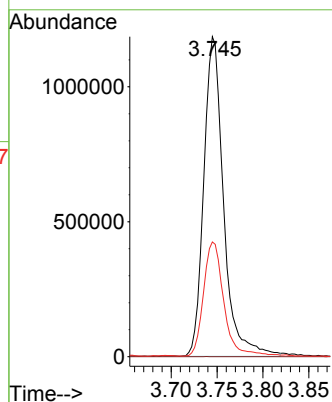
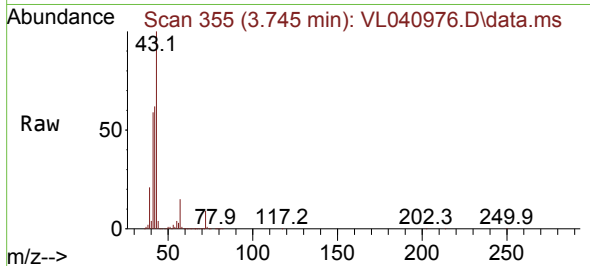




#21
 Allyl Chloride
 Concen: 19.208 ppbv
 RT: 3.745 min Scan# 31
 Delta R.T. -0.238 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53

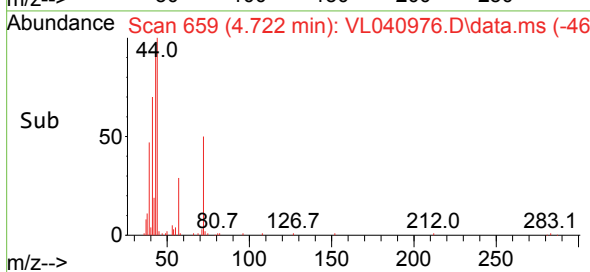
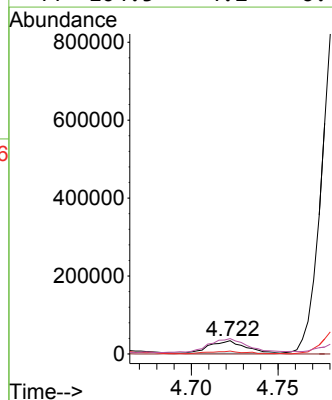
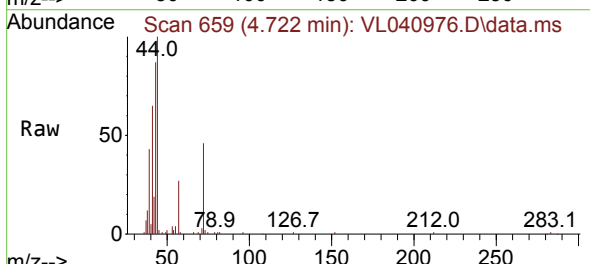
Instrument :
 MSVOA_L
 ClientSampleId :

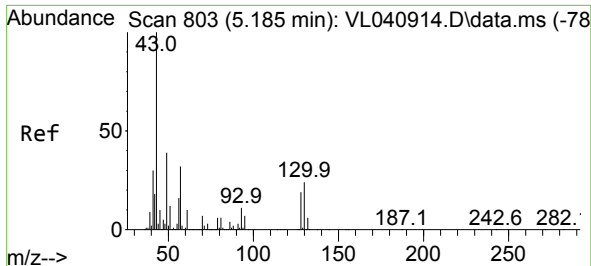
Tgt Ion: 41 Resp: 1779618
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.9 35.9#
 39 37.6 66.5 99.7#



#23
 Vinyl Acetate
 Concen: 0.260 ppbv
 RT: 4.722 min Scan# 659
 Delta R.T. 0.112 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53

Tgt Ion: 43 Resp: 44891
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.5 8.3#
 42 20.1 8.4 12.6#
 44 104.5 4.2 6.4#





#25

Ethyl Acetate

Concen: 1.365 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.026 min

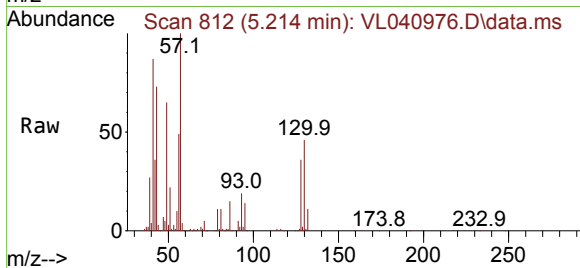
Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 370806

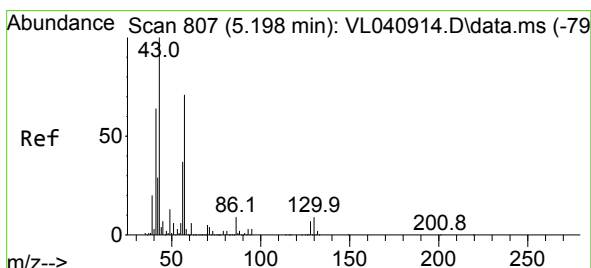
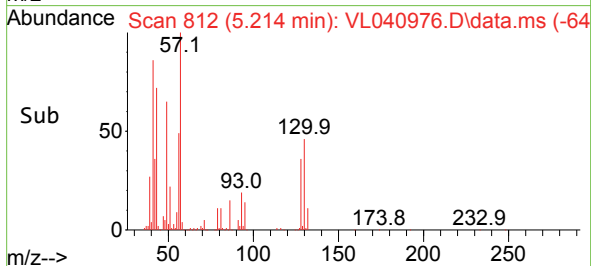
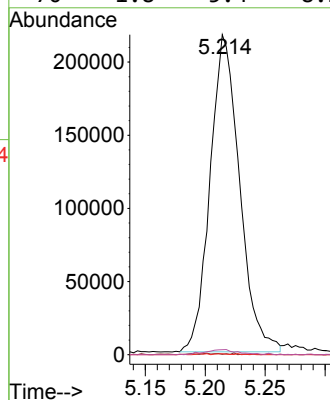
Ion Ratio Lower Upper

43 100

45 0.7 8.2 12.2#

61 0.3 7.6 11.4#

70 1.8 5.4 8.2#



#26

Hexane

Concen: 4.546 ppbv

RT: 5.217 min Scan# 813

Delta R.T. 0.022 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Tgt Ion: 57 Resp: 547158

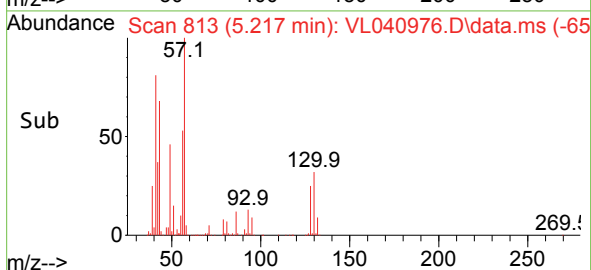
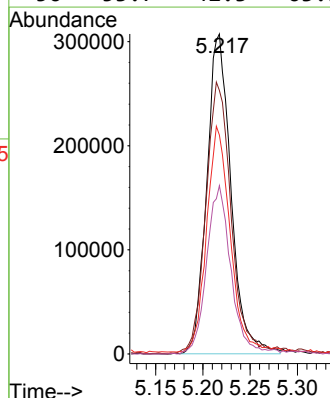
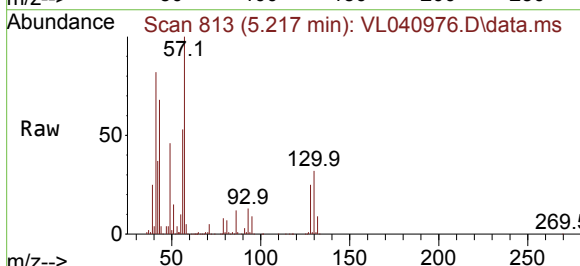
Ion Ratio Lower Upper

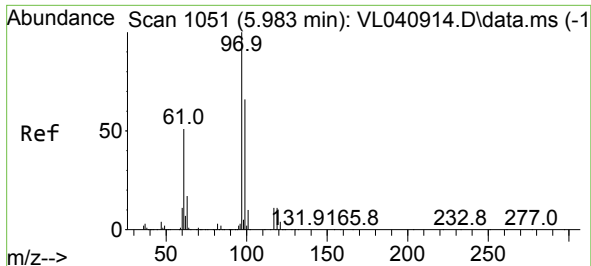
57 100

41 90.9 75.2 112.8

43 70.5 188.0 282.0#

56 53.7 42.3 63.5

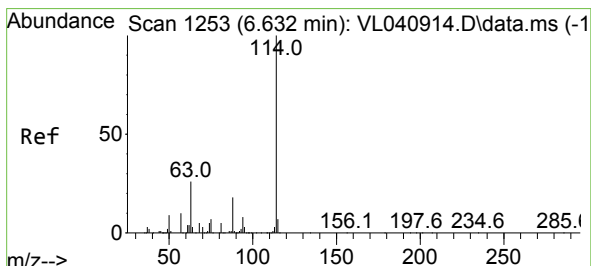
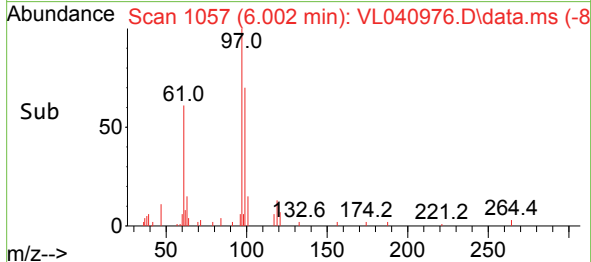
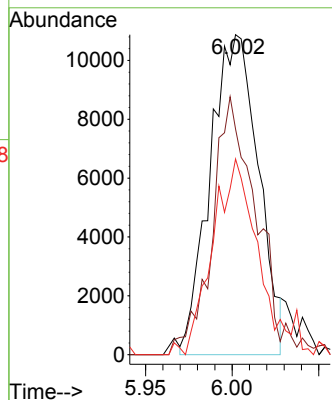
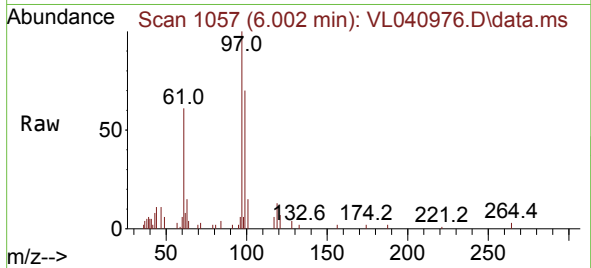




#32
1,1,1-Trichloroethane
Concen: 0.107 ppbv
RT: 6.002 min Scan# 1057
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

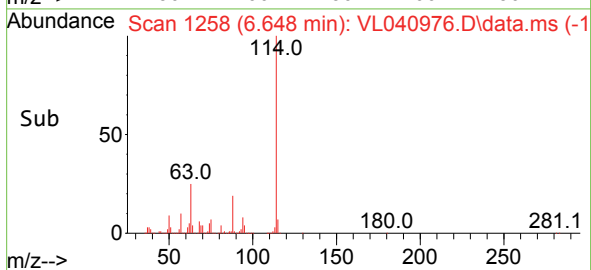
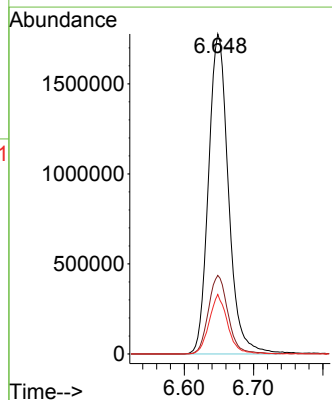
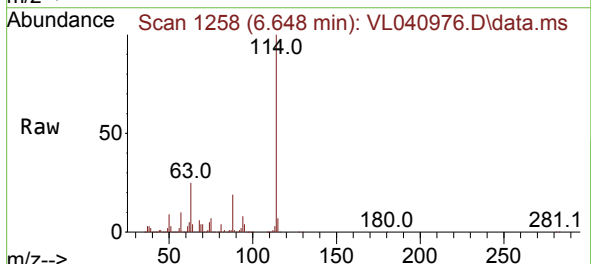
Instrument :
MSVOA_L
ClientSampleId :

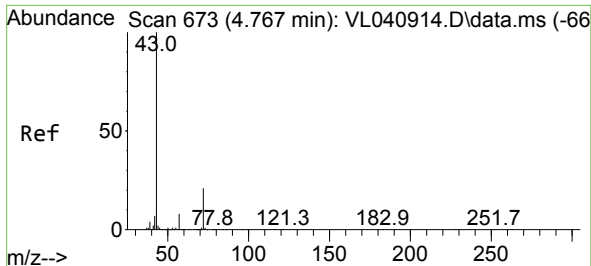
Tgt Ion: 97 Resp: 21109
Ion Ratio Lower Upper
97 100
99 74.2 51.8 77.6
61 58.8 41.0 61.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.013 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 114 Resp: 3543947
Ion Ratio Lower Upper
114 100
63 24.4 21.0 31.6
88 17.2 14.3 21.5

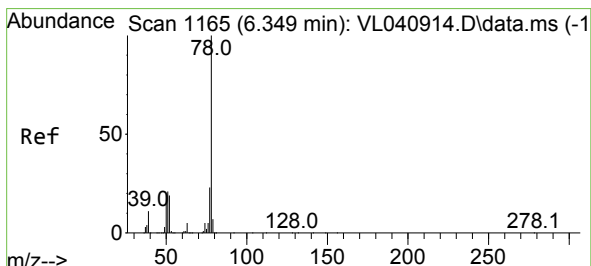
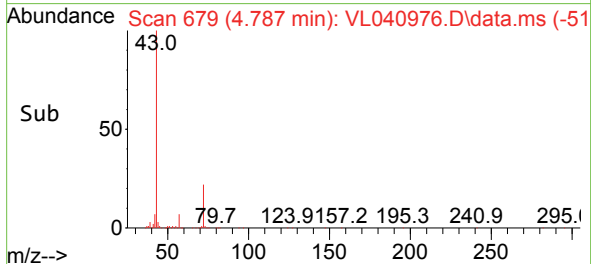
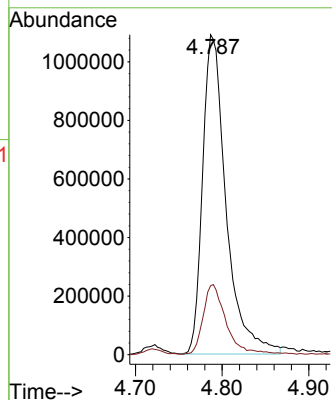
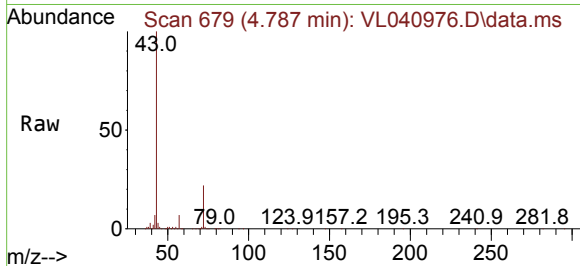




#34
2-Butanone
Concen: 10.991 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

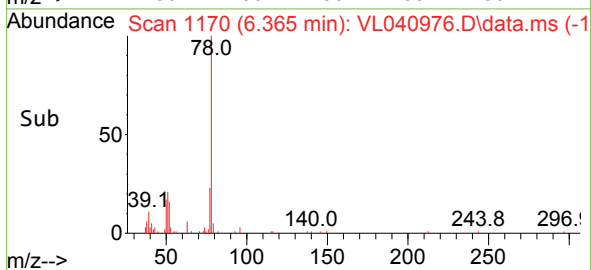
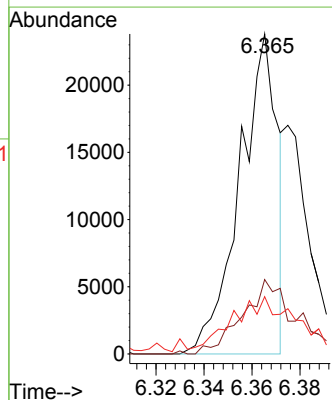
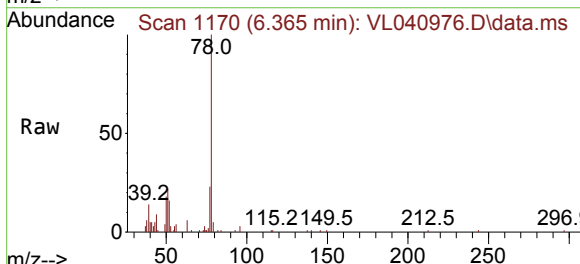
Instrument :
MSVOA_L
ClientSampleId :

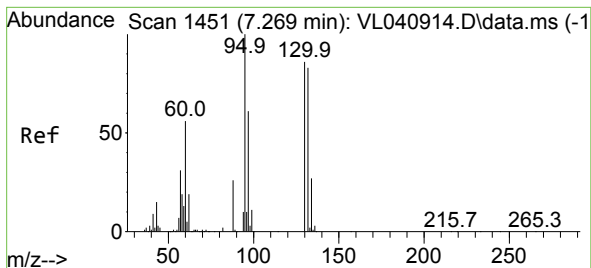
Tgt Ion: 43 Resp: 2060549
Ion Ratio Lower Upper
43 100
72 21.8 17.2 25.8



#36
Benzene
Concen: 0.094 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.013 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 78 Resp: 26065
Ion Ratio Lower Upper
78 100
77 22.3 18.4 27.6
50 13.2 16.0 24.0#





#38

Trichloroethene

Concen: 0.940 ppbv

RT: 7.282 min Scan# 1451

Delta R.T. 0.013 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:130 Resp: 97766

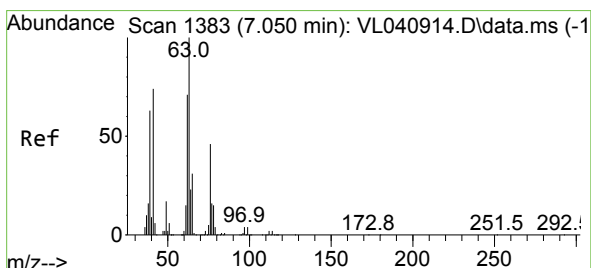
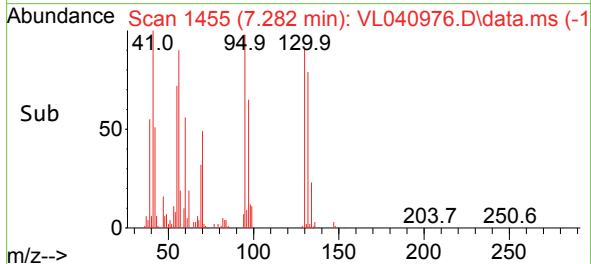
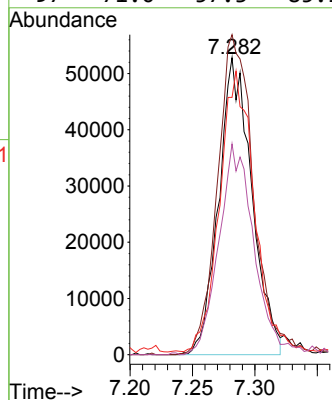
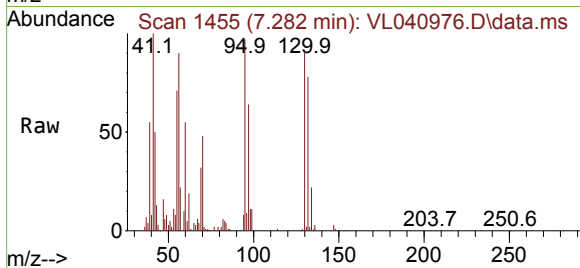
Ion Ratio Lower Upper

130 100

95 107.4 93.5 140.3

132 85.5 77.4 116.2

97 71.0 57.3 85.9



#39

1,2-Dichloropropane

Concen: 7.875 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.405 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

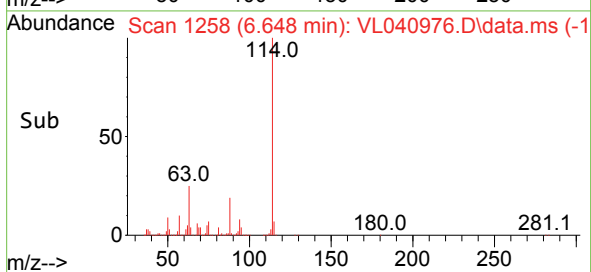
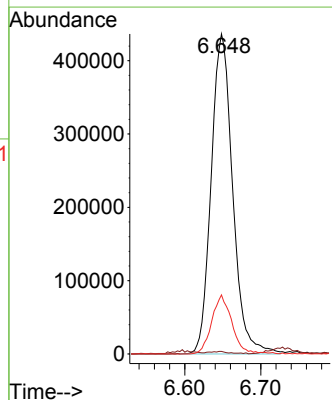
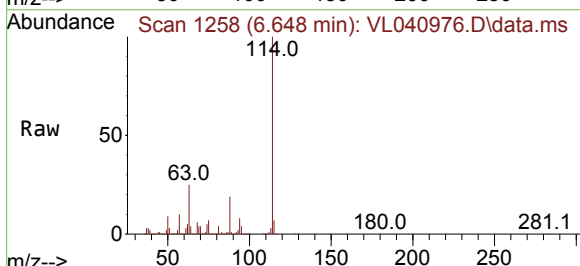
Tgt Ion: 63 Resp: 857362

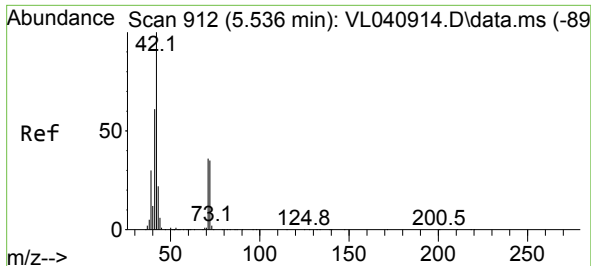
Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 18.4 56.6 85.0#





#41

Tetrahydrofuran

Concen: 1.733 ppbv

RT: 5.217 min Scan# 81

Delta R.T. -0.322 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

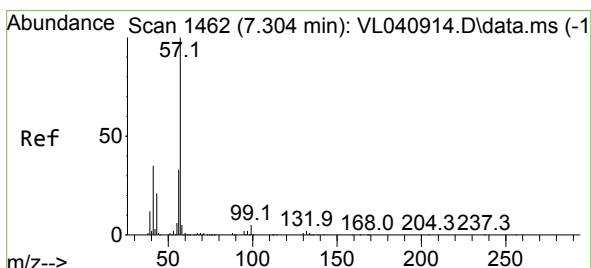
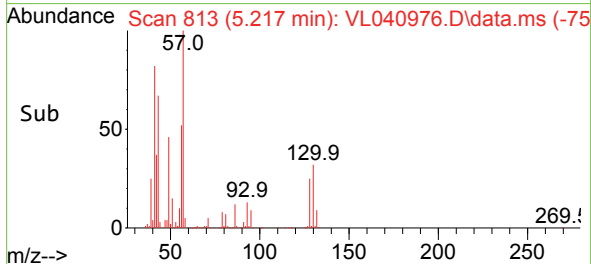
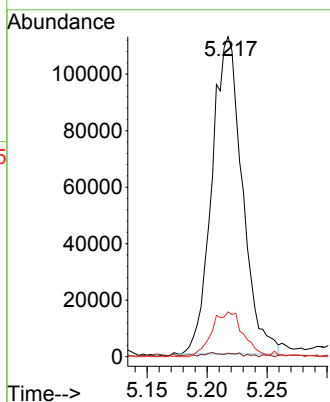
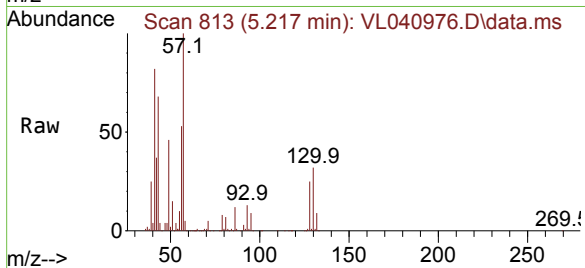
Tgt Ion: 42 Resp: 197669

Ion Ratio Lower Upper

42 100

72 1.7 29.6 44.4#

71 15.3 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.108 ppbv

RT: 7.266 min Scan# 1450

Delta R.T. -0.042 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

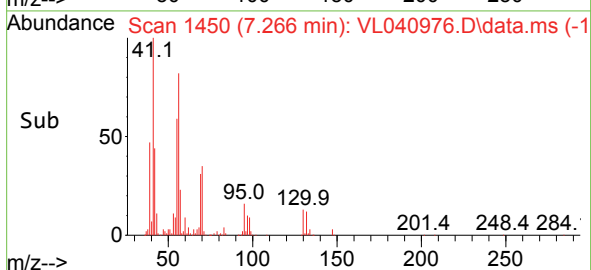
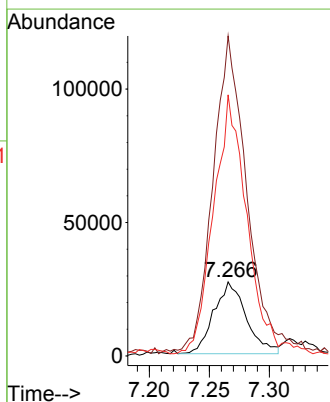
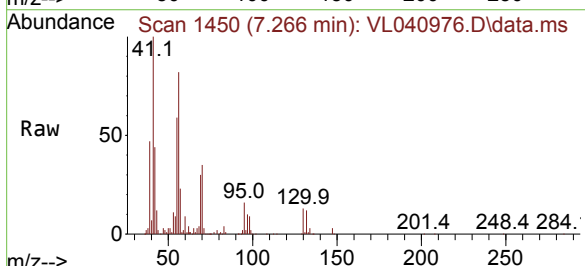
Tgt Ion: 57 Resp: 50742

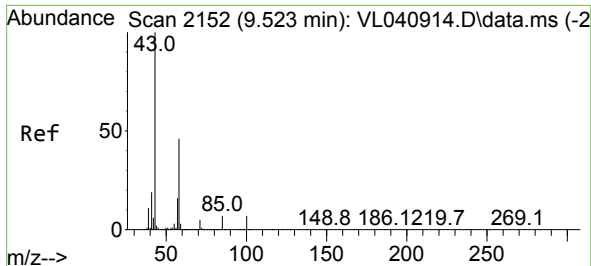
Ion Ratio Lower Upper

57 100

41 475.5 28.2 42.4#

56 399.7 25.3 37.9#

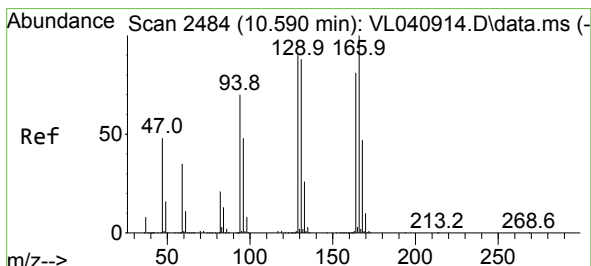
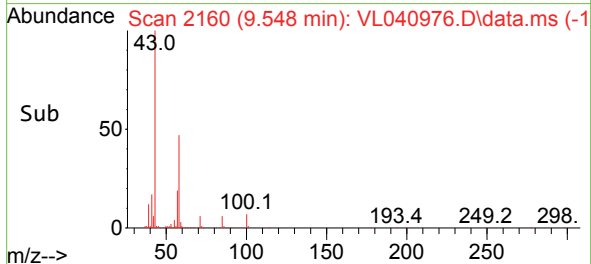
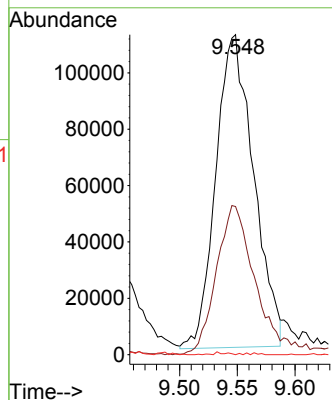
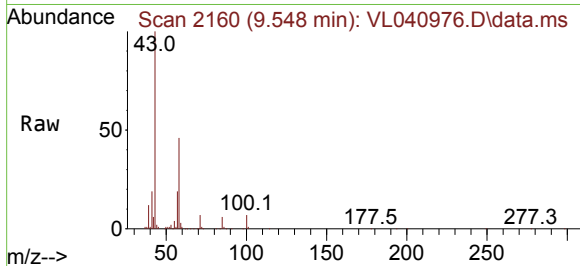




#51
2-Hexanone
Concen: 1.236 ppbv
RT: 9.548 min Scan# 2152
Delta R.T. 0.019 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

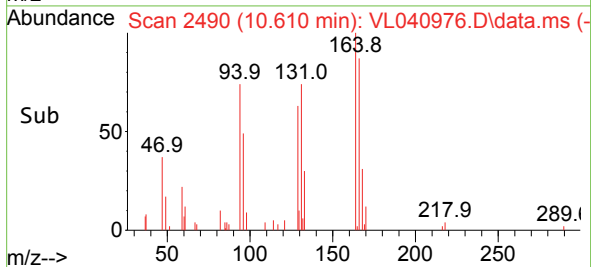
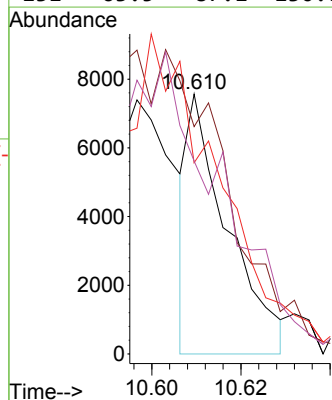
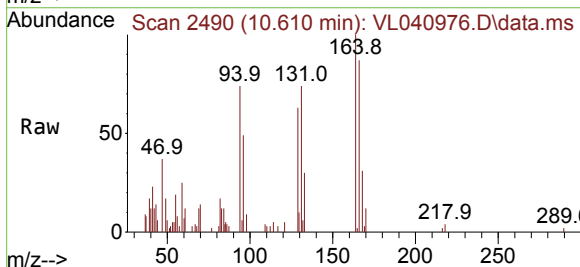
Instrument :
MSVOA_L
ClientSampleId :

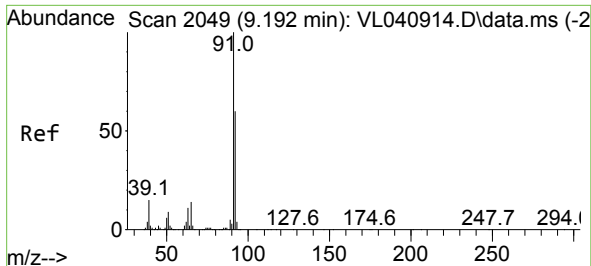
Tgt Ion: 43 Resp: 252675
Ion Ratio Lower Upper
43 100
58 49.8 37.3 55.9
98 0.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.050 ppbv
RT: 10.610 min Scan# 2490
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 164 Resp: 4678
Ion Ratio Lower Upper
164 100
166 82.0 98.9 148.3#
129 62.1 88.7 133.1#
131 63.5 87.1 130.7#





#53

Toluene

Concen: 0.764 ppbv

RT: 9.208 min Scan# 2049

Delta R.T. 0.010 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

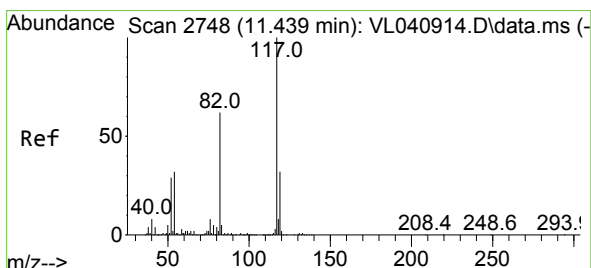
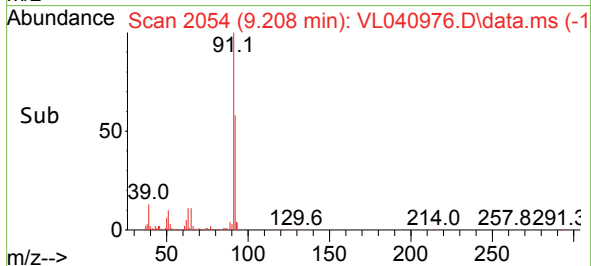
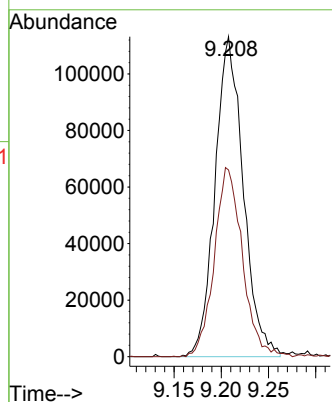
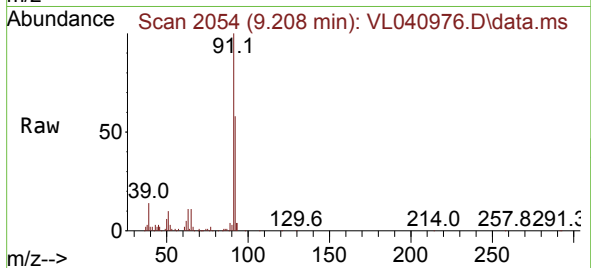
ClientSampleId :

Tgt Ion: 91 Resp: 234736

Ion Ratio Lower Upper

91 100

92 58.8 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.449 min Scan# 2751

Delta R.T. 0.006 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

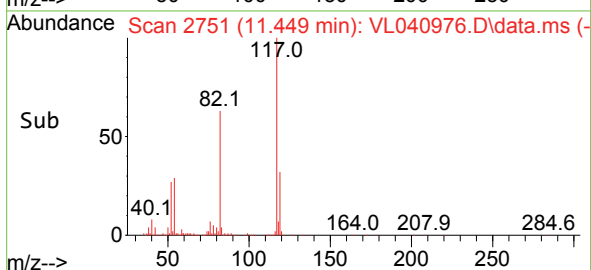
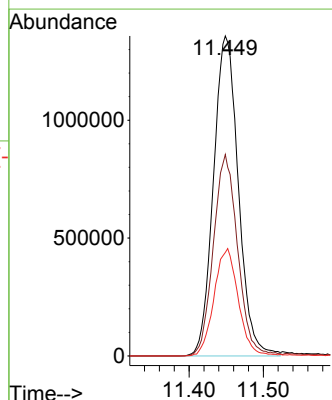
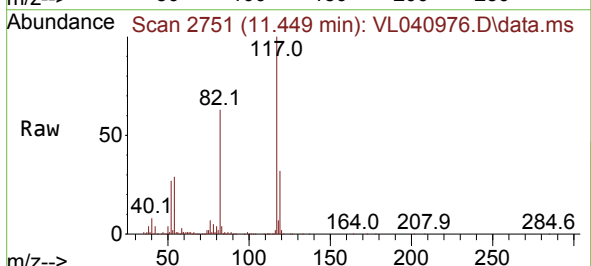
Tgt Ion: 117 Resp: 3161921

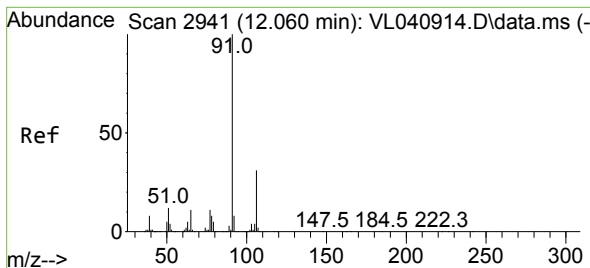
Ion Ratio Lower Upper

117 100

82 62.6 49.6 74.4

119 33.3 23.4 35.0





#58

Ethyl Benzene

Concen: 0.262 ppbv

RT: 12.076 min Scan# 2941

Delta R.T. 0.013 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

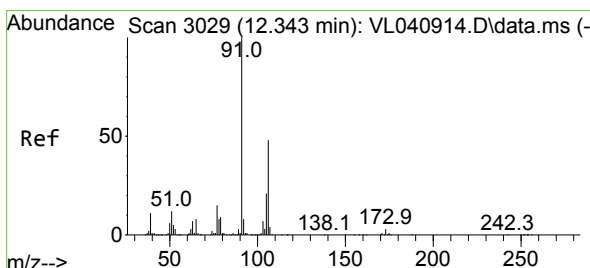
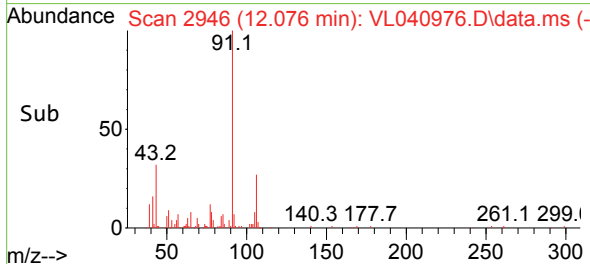
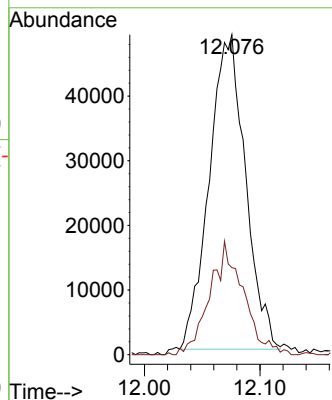
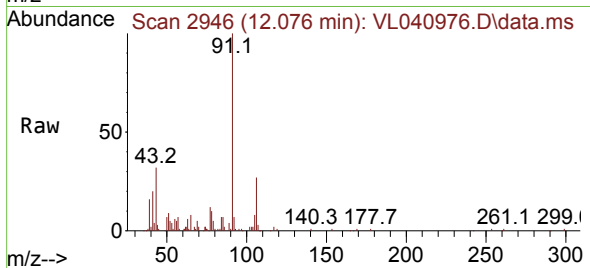
ClientSampleId :

Tgt Ion: 91 Resp: 106283

Ion Ratio Lower Upper

91 100

106 26.9 24.9 37.3



#59

m/p-Xylene

Concen: 0.215 ppbv

RT: 12.359 min Scan# 3034

Delta R.T. 0.010 min

Lab File: VL040976.D

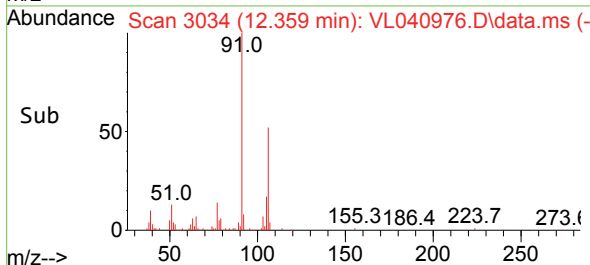
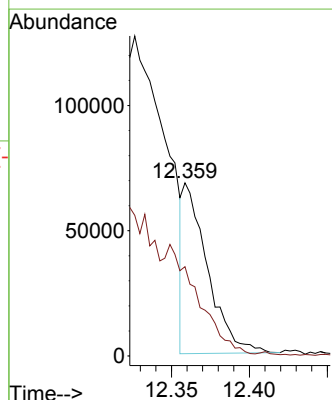
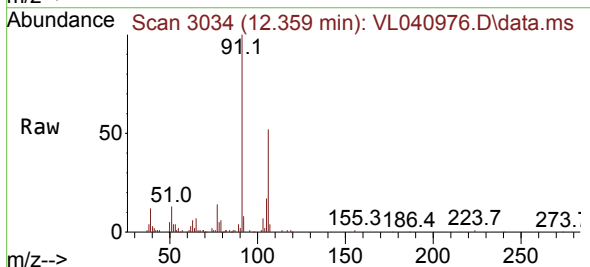
Acq: 15 Jan 2024 18:53

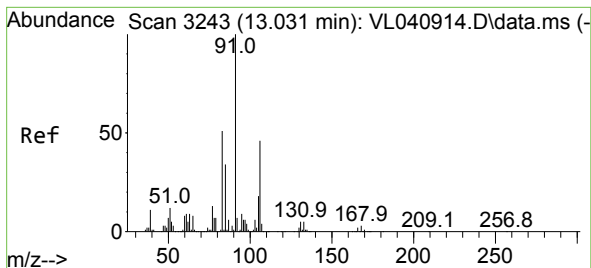
Tgt Ion: 91 Resp: 74188

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.467 ppbv

RT: 13.044 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

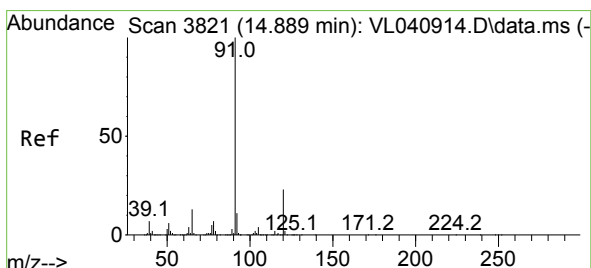
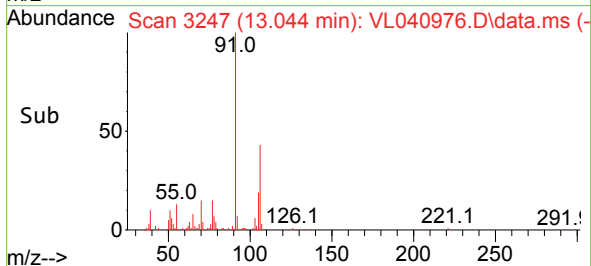
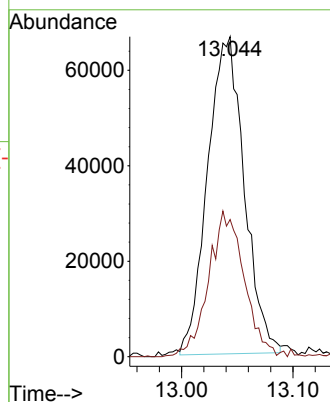
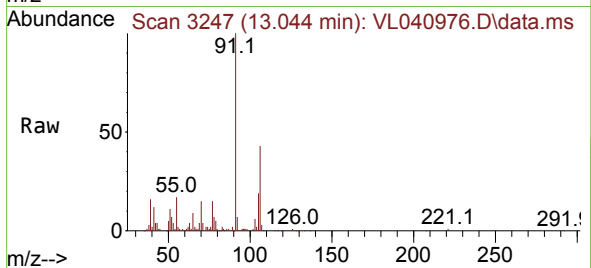
ClientSampleId :

Tgt Ion: 91 Resp: 151948

Ion Ratio Lower Upper

91 100

106 44.9 22.6 67.7



#64

n-propylbenzene

Concen: 0.021 ppbv

RT: 14.902 min Scan# 3825

Delta R.T. 0.010 min

Lab File: VL040976.D

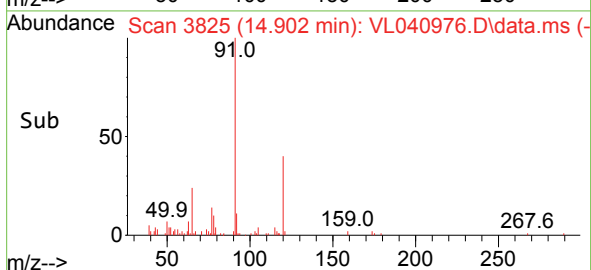
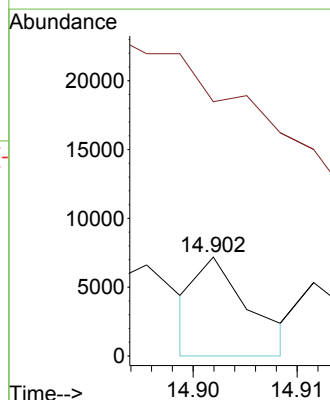
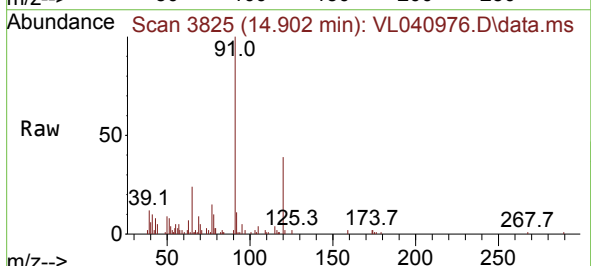
Acq: 15 Jan 2024 18:53

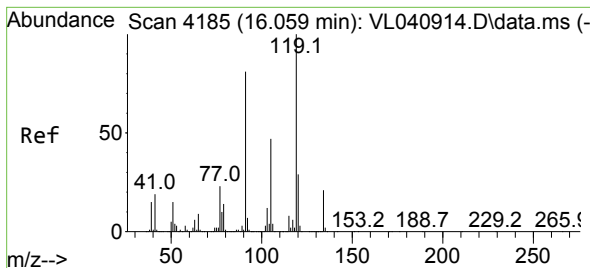
Tgt Ion: 120 Resp: 2497

Ion Ratio Lower Upper

120 100

91 0.0 381.9 572.9#





#65

tert-Butylbenzene

Concen: 0.023 ppbv

RT: 16.082 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL040976.D

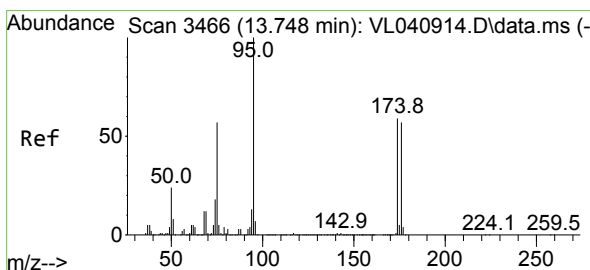
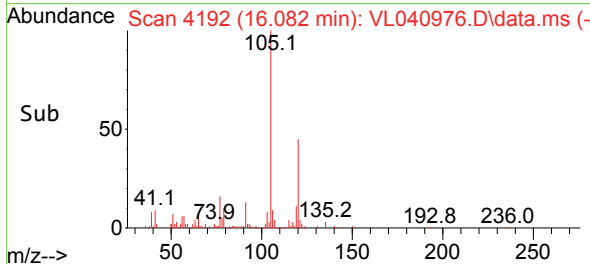
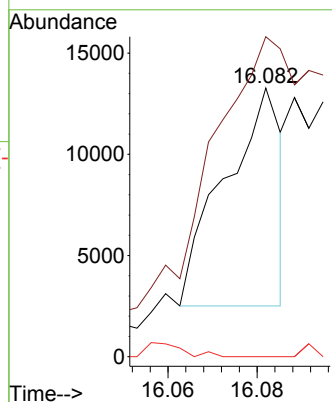
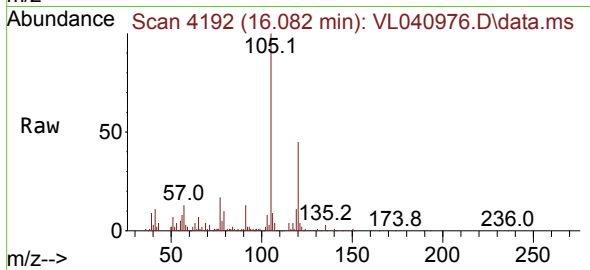
Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:119	Resp:	9526
Ion Ratio	Lower	Upper
119	100	
91	434.4	67.2 100.8#
134	0.0	15.8 23.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.916 ppbv

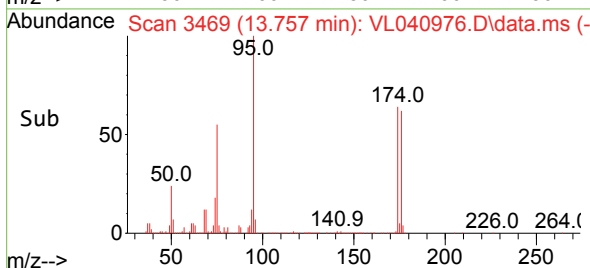
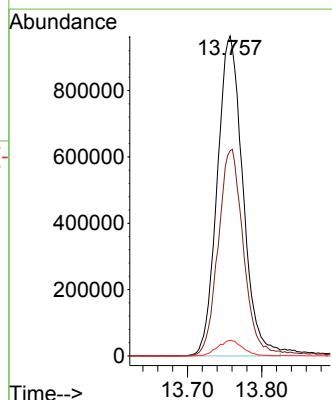
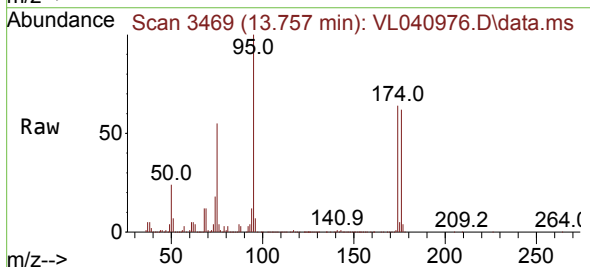
RT: 13.757 min Scan# 3469

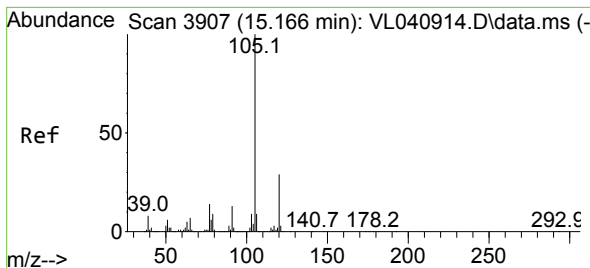
Delta R.T. 0.003 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Tgt Ion: 95	Resp: 2309571
Ion Ratio	Lower Upper
95	100
174	65.5 48.0 72.0
175	5.0 3.7 5.5





#72

4-Ethyltoluene

Concen: 0.216 ppbv

RT: 15.175 min Scan# 3910

Delta R.T. 0.006 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 77201

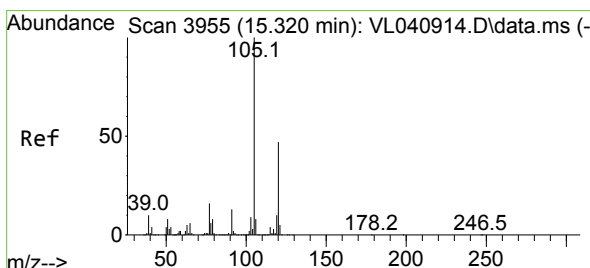
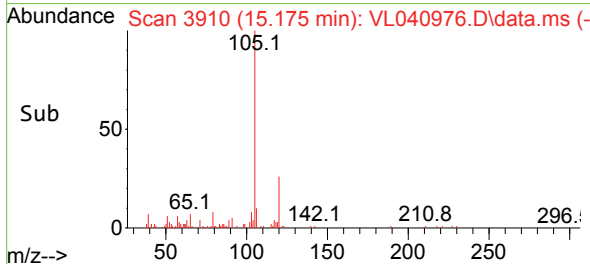
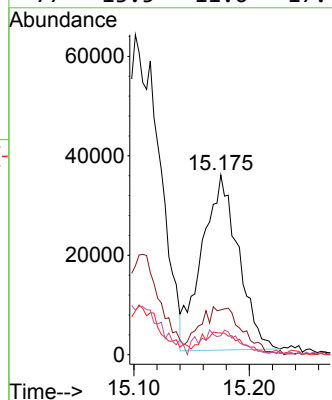
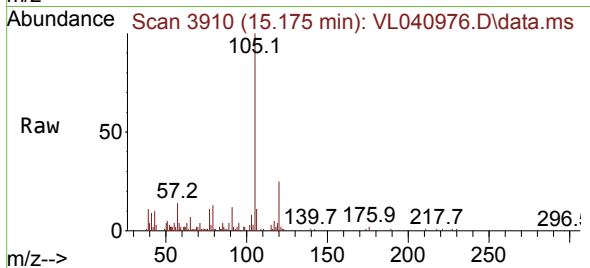
Ion Ratio Lower Upper

105 100

120 32.4 23.8 35.8

91 13.7 10.9 16.3

77 13.5 11.6 17.4



#73

1,3,5-Trimethylbenzene

Concen: 0.079 ppbv

RT: 15.336 min Scan# 3960

Delta R.T. 0.006 min

Lab File: VL040976.D

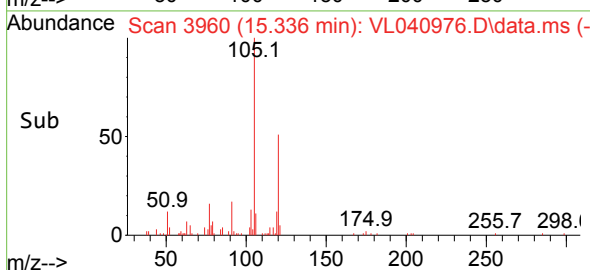
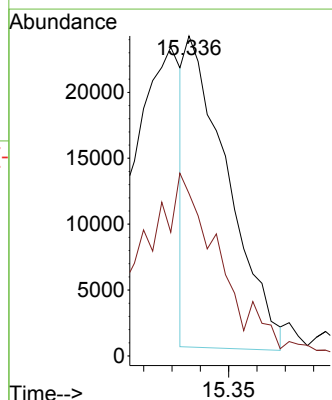
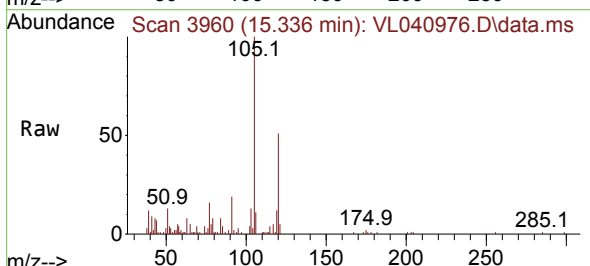
Acq: 15 Jan 2024 18:53

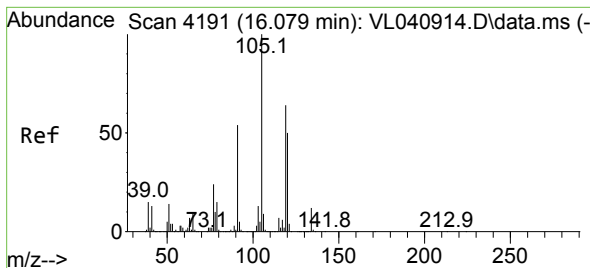
Tgt Ion:105 Resp: 24475

Ion Ratio Lower Upper

105 100

120 53.3 37.8 56.8





#74

1,2,4-Trimethylbenzene

Concen: 0.855 ppbv

RT: 16.088 min Scan# 4191

Delta R.T. 0.003 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 293381

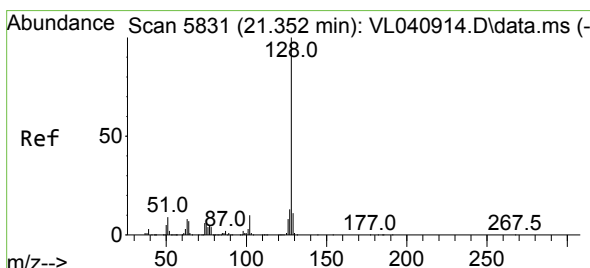
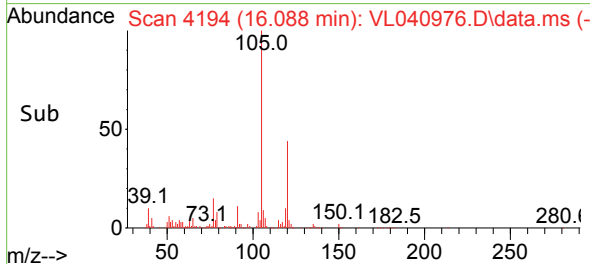
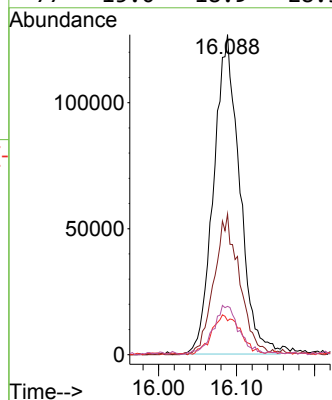
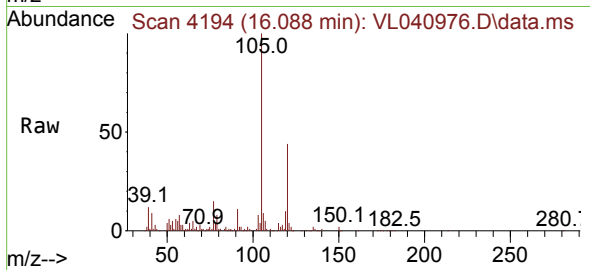
Ion Ratio Lower Upper

105 100

120 44.0 40.2 60.4

91 10.2 43.0 64.6#

77 15.0 18.9 28.3#



#79

Naphthalene

Concen: 0.052 ppbv

RT: 21.378 min Scan# 5839

Delta R.T. 0.019 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Tgt Ion:128 Resp: 8609

Ion Ratio Lower Upper

128 100

127 2.7 10.6 15.8#

129 7.2 8.7 13.1#

