

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080524\
 Data File : VL041500.D
 Acq On : 5 Aug 2024 14:52
 Operator : SY/MD
 Sample : P3454-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

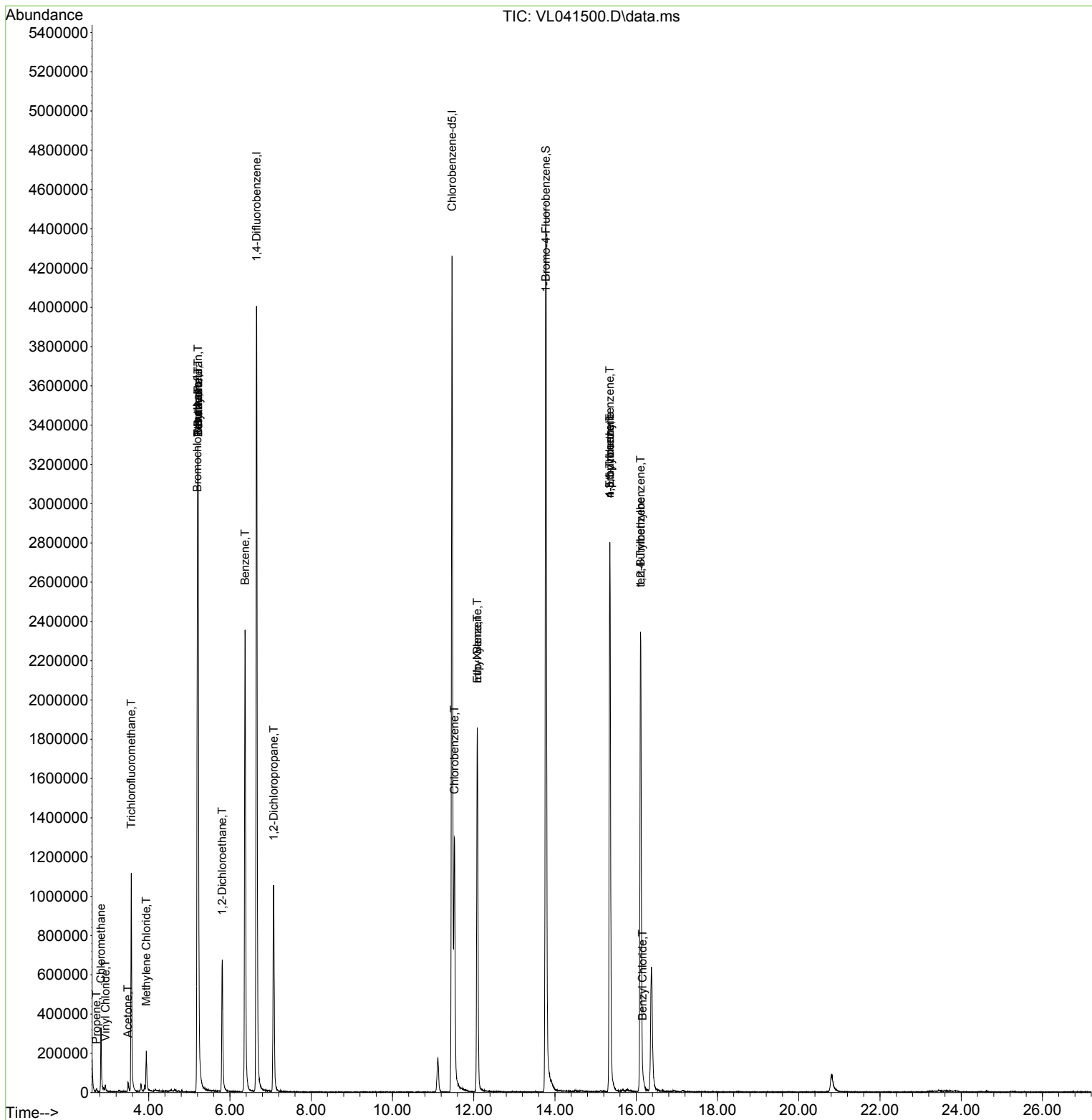
Quant Time: Aug 06 01:37:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

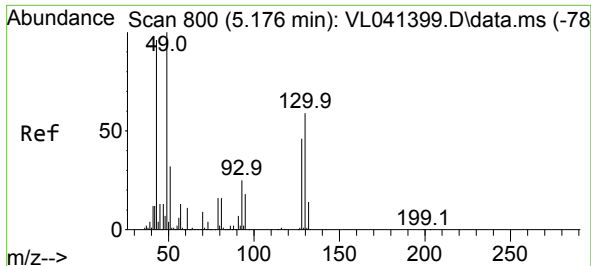
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	1108900	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	3057984	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2840872	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2174696	9.947	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
4) Chloromethane	2.825	50	285882	4.072	ppbv	100
5) Vinyl Chloride	2.935	62	22511	0.325	ppbv	98
9) Propene	2.710	41	4017	0.066	ppbv #	75
11) Trichlorofluoromethane	3.571	101	724474	4.276	ppbv	98
15) Acetone	3.491	43	45476	0.361	ppbv #	89
20) Methylene Chloride	3.941	84	62177	1.323	ppbv #	83
25) Ethyl Acetate	5.218	43	697216	2.785	ppbv #	75
26) Hexane	5.218	57	993607	9.569	ppbv #	37
34) 2-Butanone	5.218	43	697216	4.713	ppbv #	54
36) Benzene	6.372	78	1968039	8.808	ppbv	99
37) 1,2-Dichloroethane	5.809	62	573243	4.584	ppbv	100
39) 1,2-Dichloropropane	7.076	63	374722	4.380	ppbv	99
41) Tetrahydrofuran	5.218	42	396376	4.685	ppbv #	48
57) Chlorobenzene	11.526	112	787012	3.891	ppbv	98
58) Ethyl Benzene	12.089	91	1678111	5.125	ppbv	99
59) m/p-Xylene	12.089	91	1678111	5.937	ppbv #	79
64) n-propylbenzene	15.352	120	1044427	9.828	ppbv #	1
65) tert-Butylbenzene	16.108	119	213993	0.583	ppbv #	62
66) Benzyl Chloride	16.156	91	2498	0.106	ppbv #	66
72) 4-Ethyltoluene	15.352	105	2242989	7.125	ppbv #	82
73) 1,3,5-Trimethylbenzene	15.352	105	2242989	8.271	ppbv	99
74) 1,2,4-Trimethylbenzene	16.108	105	1922856	6.099	ppbv #	71

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

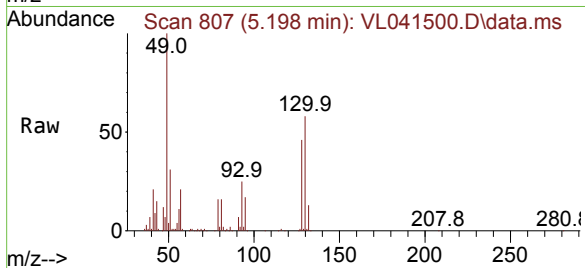
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
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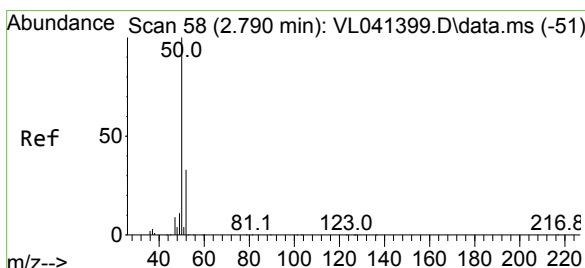
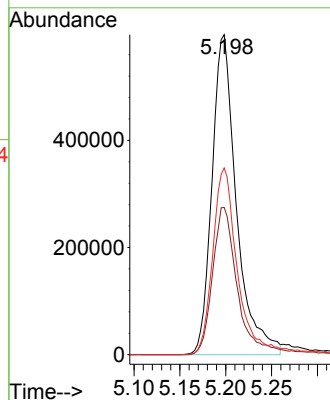
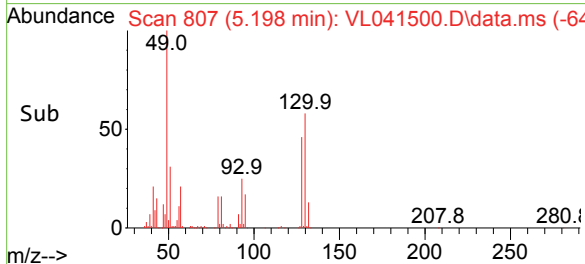


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

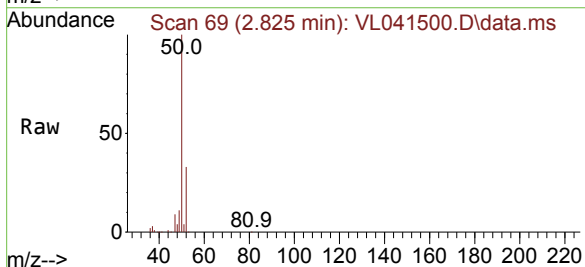
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MSVOA_L
ClientSampleId :



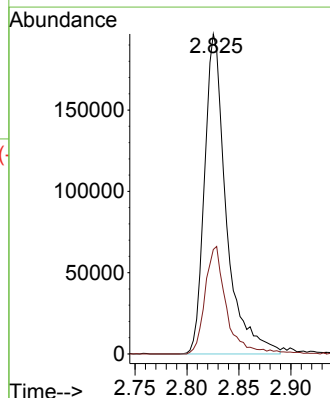
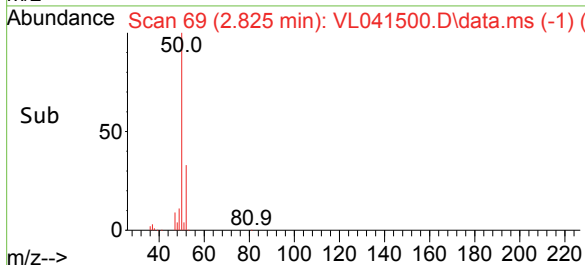
Tgt Ion: 49 Resp: 1108900
Ion Ratio Lower Upper
49 100
128 48.0 23.8 71.4
130 61.6 30.8 92.4

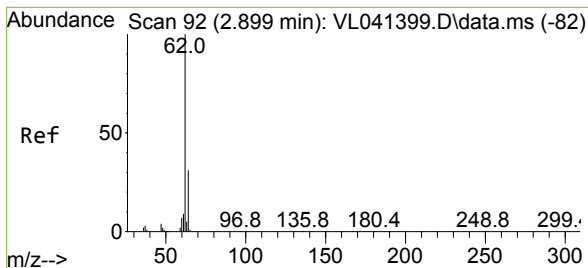


#4
Chloromethane
Concen: 4.072 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.010 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52



Tgt Ion: 50 Resp: 285882
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1

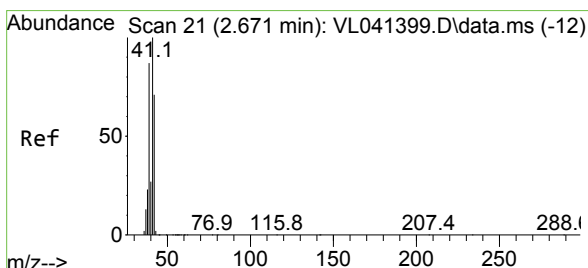
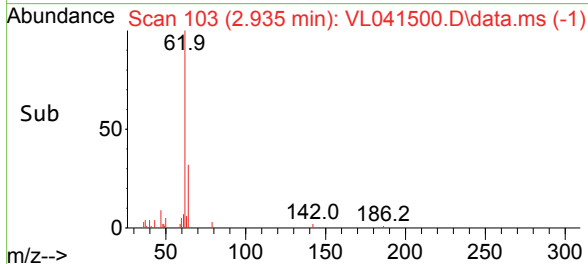
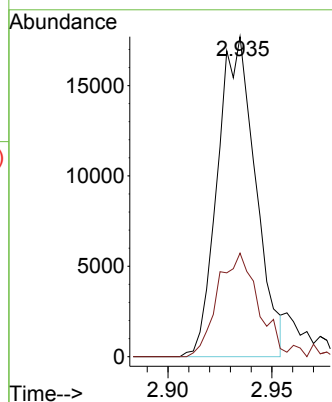
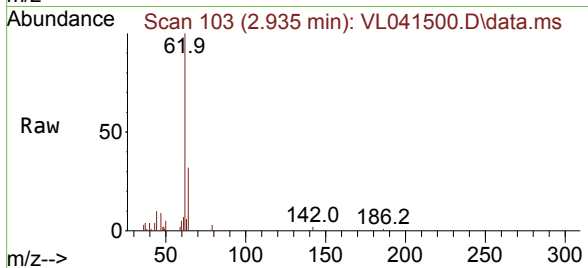




#5
 Vinyl Chloride
 Concen: 0.325 ppbv
 RT: 2.935 min Scan# 10
 Delta R.T. 0.013 min
 Lab File: VL041500.D
 Acq: 5 Aug 2024 14:52

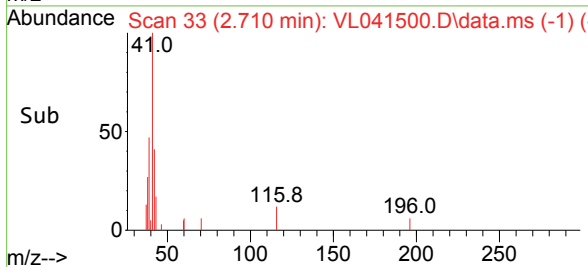
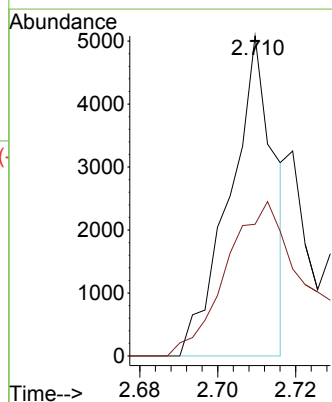
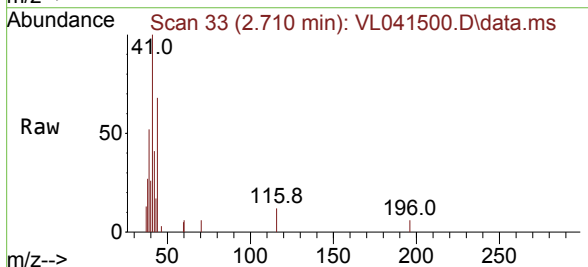
Instrument :
 MSVOA_L
 ClientSampleId :

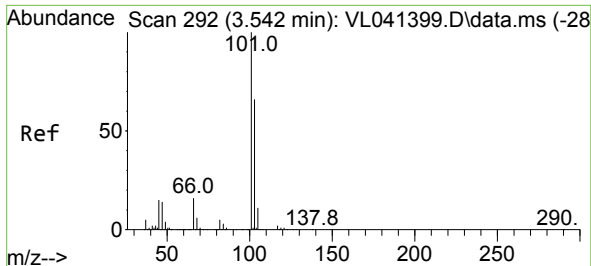
Tgt Ion: 62 Resp: 22511
 Ion Ratio Lower Upper
 62 100
 64 32.3 25.0 37.4



#9
 Propene
 Concen: 0.066 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.013 min
 Lab File: VL041500.D
 Acq: 5 Aug 2024 14:52

Tgt Ion: 41 Resp: 4017
 Ion Ratio Lower Upper
 41 100
 42 90.4 55.9 83.9#

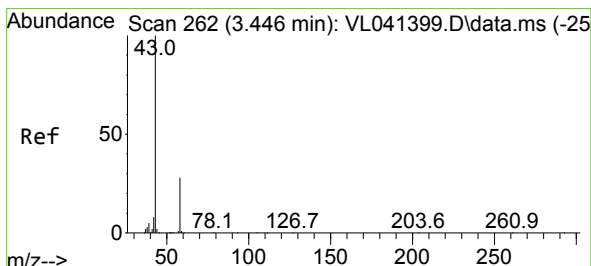
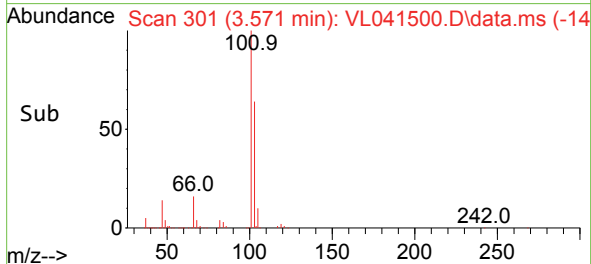
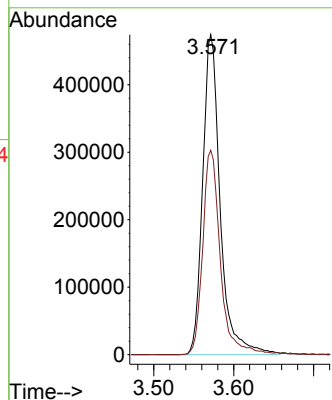
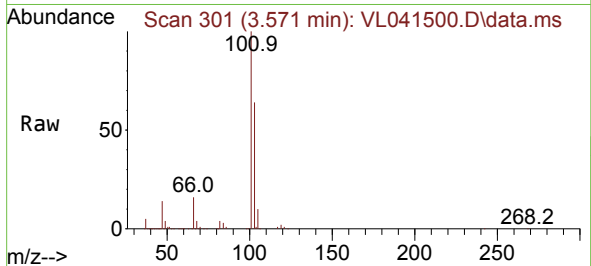




#11
Trichlorofluoromethane
Concen: 4.276 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

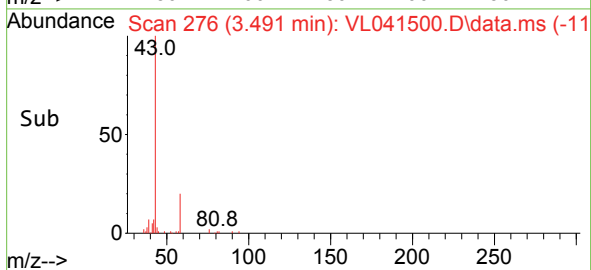
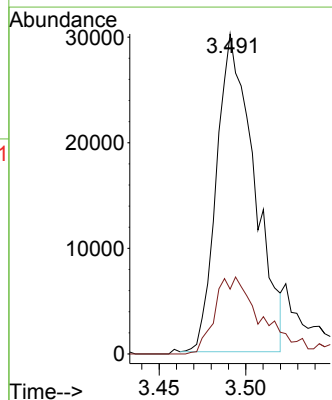
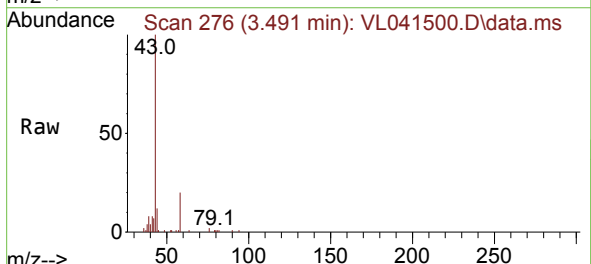
Instrument :
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ClientSampleId :

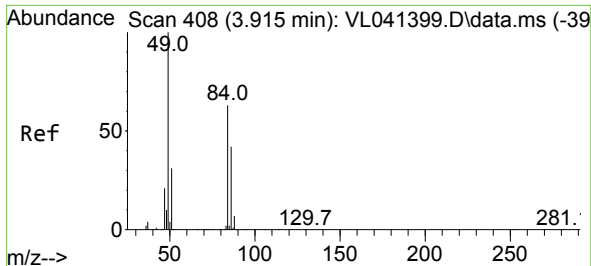
Tgt Ion:101 Resp: 724474
Ion Ratio Lower Upper
101 100
103 63.9 52.6 79.0



#15
Acetone
Concen: 0.361 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.023 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

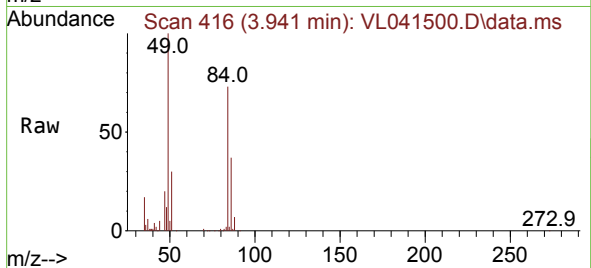
Tgt Ion: 43 Resp: 45476
Ion Ratio Lower Upper
43 100
58 32.7 21.4 32.2#



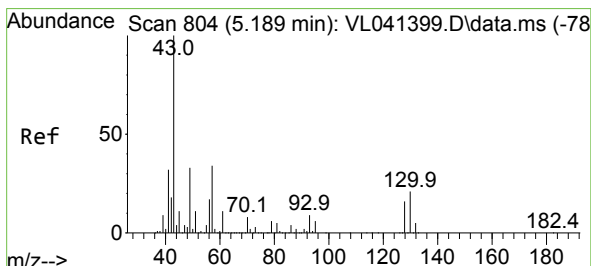
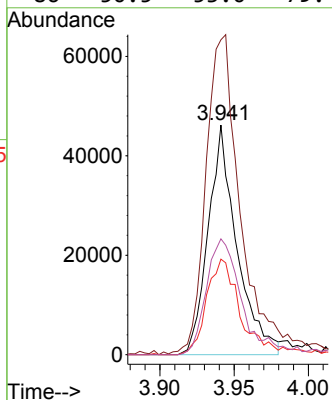
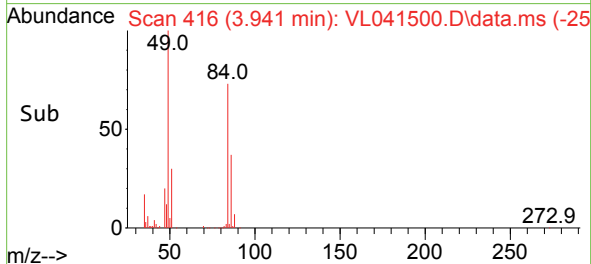


#20
Methylene Chloride
Concen: 1.323 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.010 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

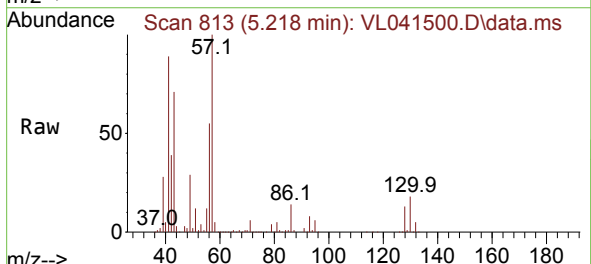
Instrument :
MSVOA_L
ClientSampleId :



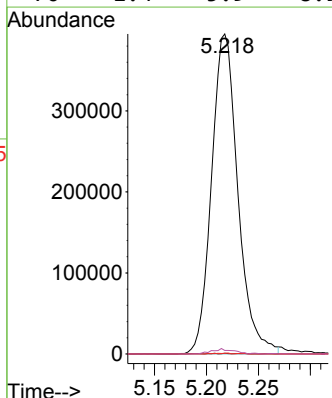
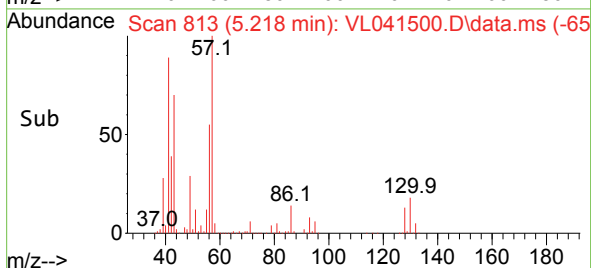
Tgt Ion: 84 Resp: 62177
Ion Ratio Lower Upper
84 100
49 135.7 126.6 190.0
51 41.6 38.6 58.0
86 50.5 53.0 79.4#

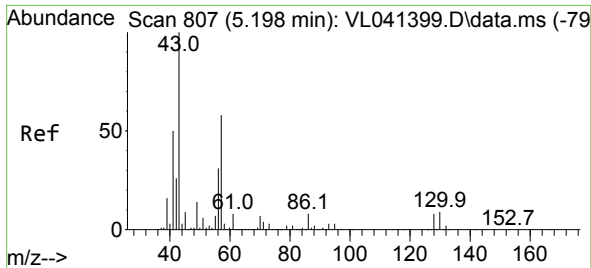


#25
Ethyl Acetate
Concen: 2.785 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.016 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52



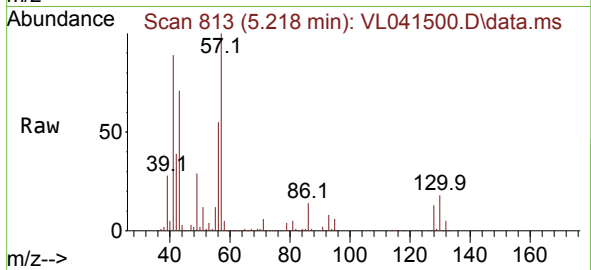
Tgt Ion: 43 Resp: 697216
Ion Ratio Lower Upper
43 100
45 0.1 8.5 12.7#
61 0.2 8.0 12.0#
70 1.4 5.9 8.9#



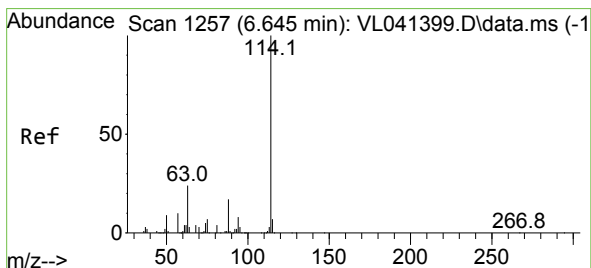
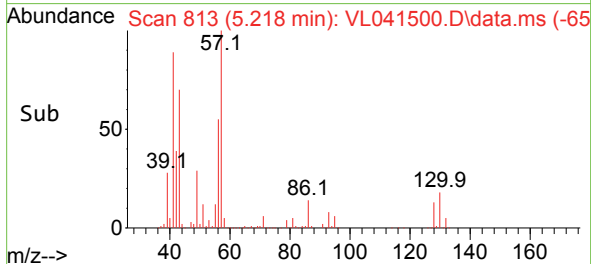
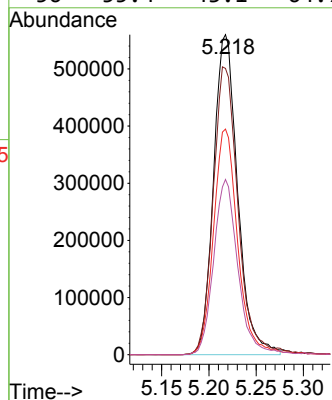


#26
Hexane
Concen: 9.569 ppbv
RT: 5.218 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

Instrument :
MSVOA_L
ClientSampleId :

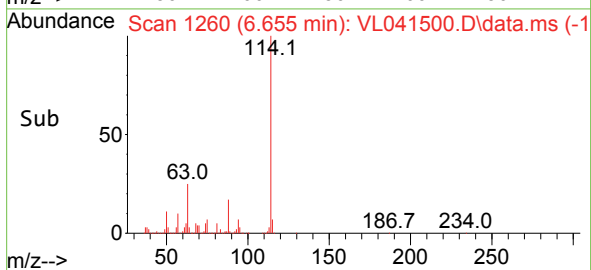
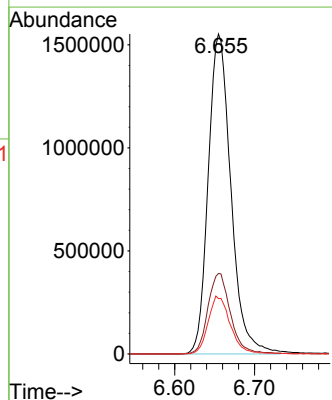
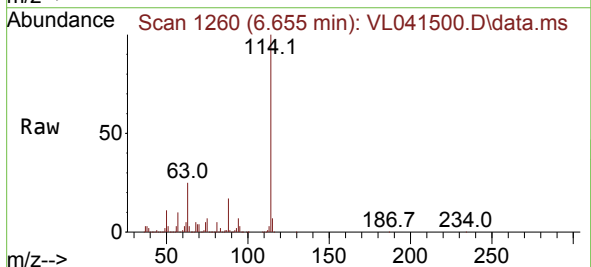


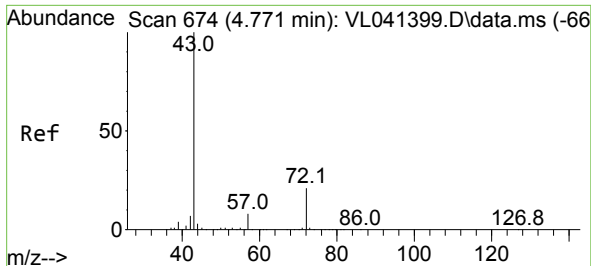
Tgt Ion: 57 Resp: 993607
Ion Ratio Lower Upper
57 100
41 93.5 74.0 111.0
43 71.4 193.6 290.4#
56 55.4 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.007 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

Tgt Ion:114 Resp: 3057984
Ion Ratio Lower Upper
114 100
63 25.2 20.3 30.5
88 17.8 14.3 21.5

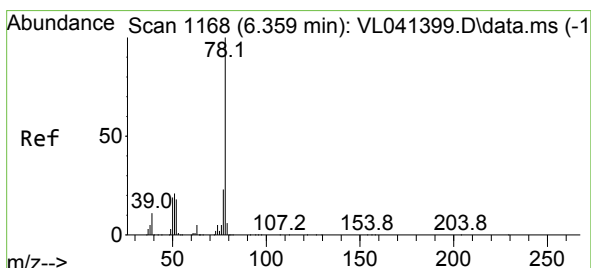
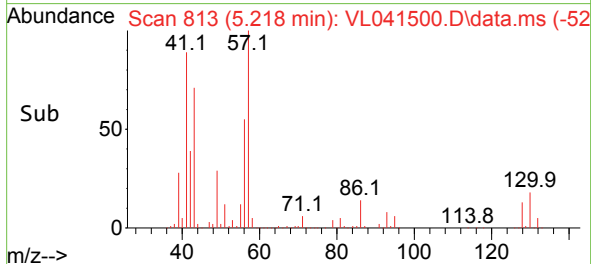
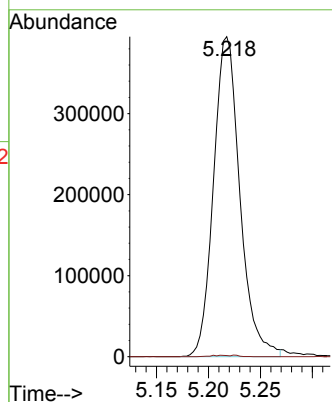
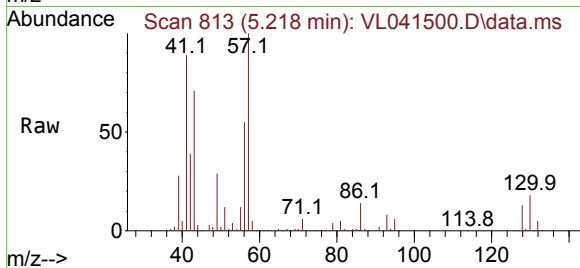




#34
2-Butanone
Concen: 4.713 ppbv
RT: 5.218 min Scan# 81
Delta R.T. 0.434 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

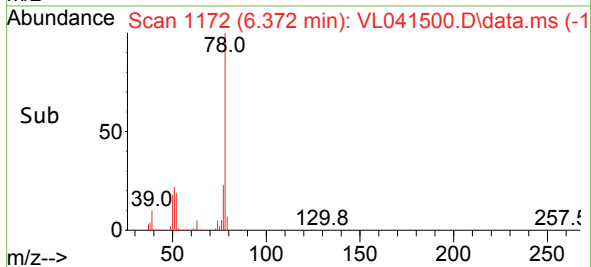
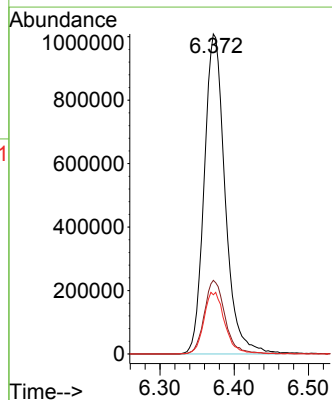
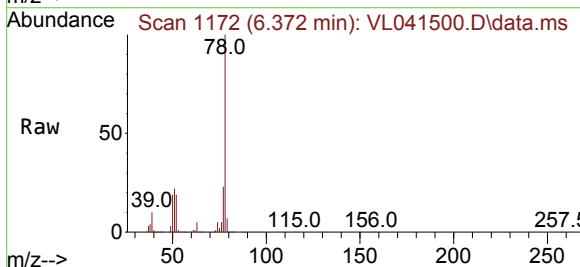
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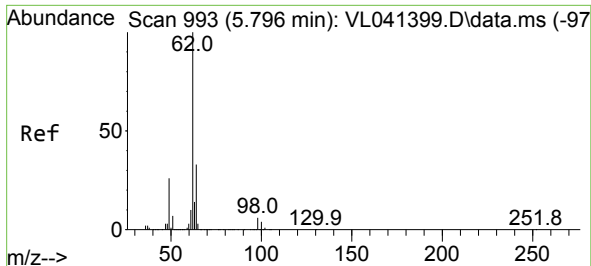
Tgt Ion: 43 Resp: 697216
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#36
Benzene
Concen: 8.808 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.003 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

Tgt Ion: 78 Resp: 1968039
Ion Ratio Lower Upper
78 100
77 23.0 18.1 27.1
50 18.5 15.5 23.3





#37

1,2-Dichloroethane

Concen: 4.584 ppbv

RT: 5.809 min Scan# 993

Delta R.T. 0.003 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

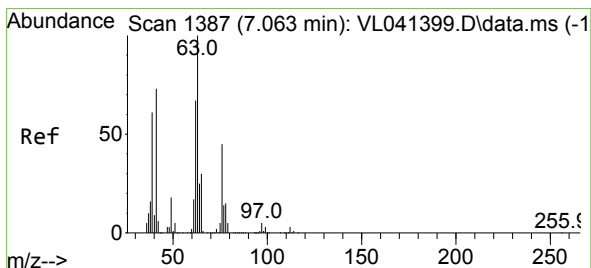
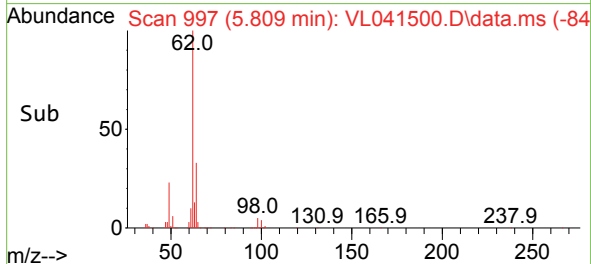
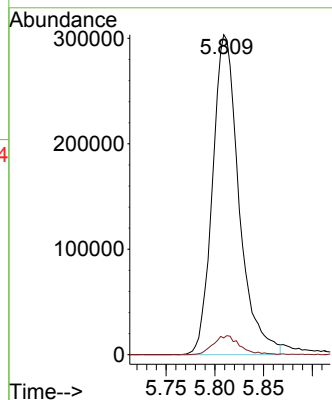
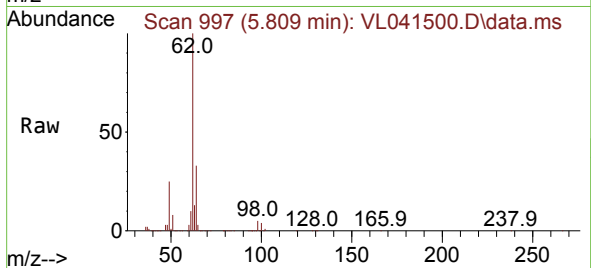
ClientSampleId :

Tgt Ion: 62 Resp: 573243

Ion Ratio Lower Upper

62 100

98 6.1 5.0 7.4



#39

1,2-Dichloropropane

Concen: 4.380 ppbv

RT: 7.076 min Scan# 1391

Delta R.T. 0.006 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

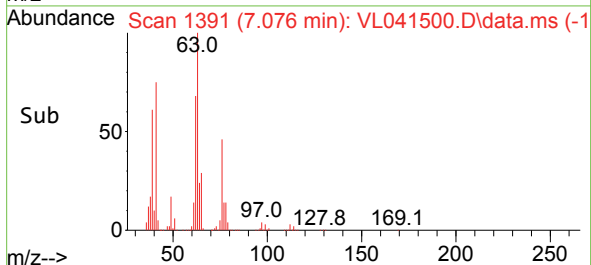
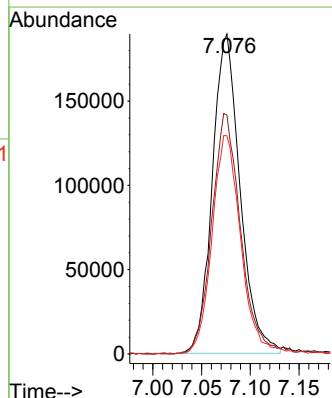
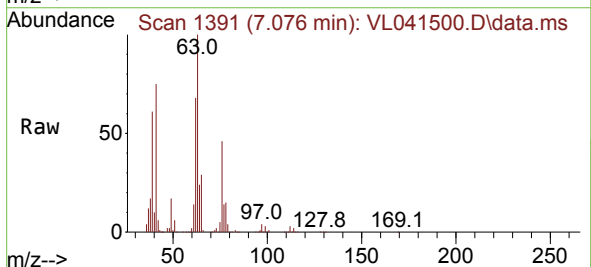
Tgt Ion: 63 Resp: 374722

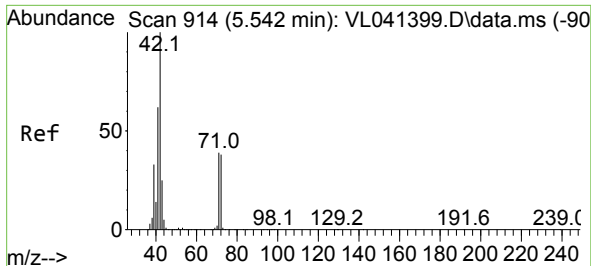
Ion Ratio Lower Upper

63 100

41 74.5 58.3 87.5

62 68.2 53.9 80.9





#41

Tetrahydrofuran

Concen: 4.685 ppbv

RT: 5.218 min Scan# 81

Delta R.T. -0.334 min

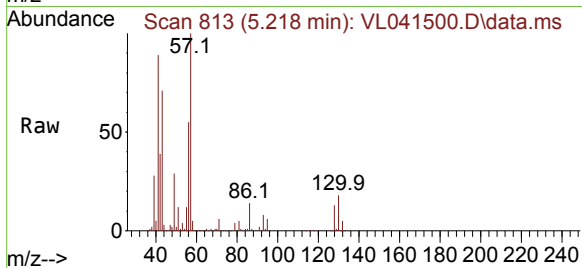
Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :



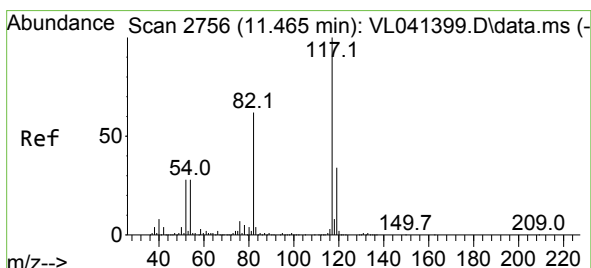
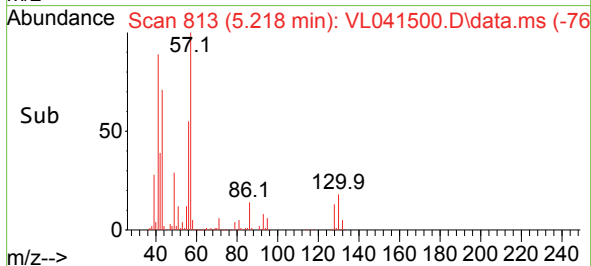
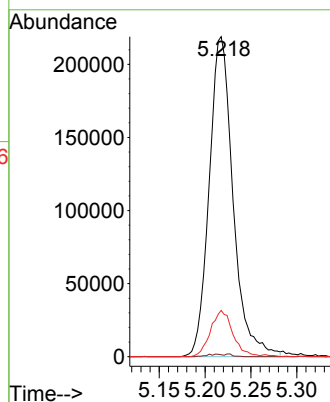
Tgt Ion: 42 Resp: 396376

Ion Ratio Lower Upper

42 100

72 0.7 31.2 46.8#

71 13.8 30.5 45.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. 0.007 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

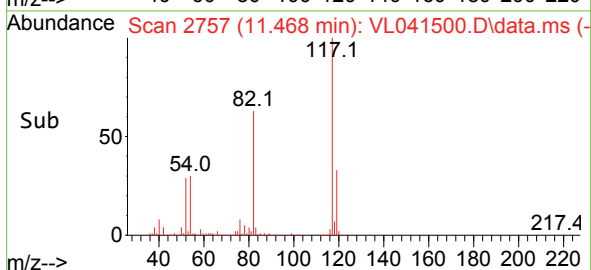
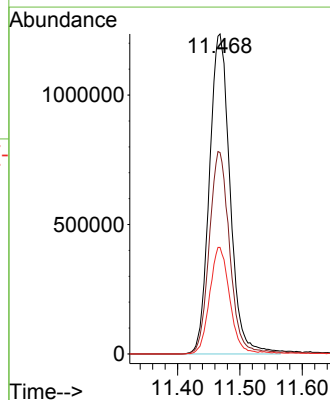
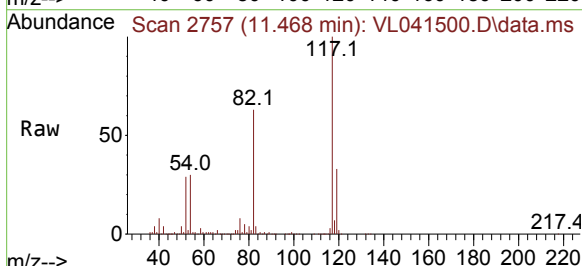
Tgt Ion: 117 Resp: 2840872

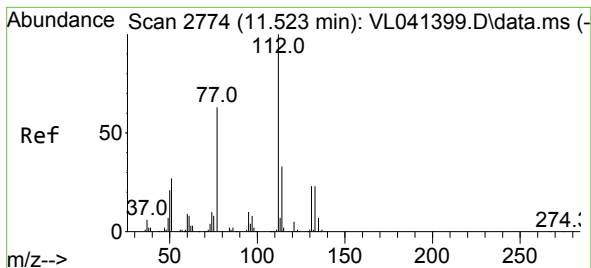
Ion Ratio Lower Upper

117 100

82 63.5 51.0 76.6

119 33.3 45.2 67.8#





#57

Chlorobenzene

Concen: 3.891 ppbv

RT: 11.526 min Scan# 21

Delta R.T. 0.007 min

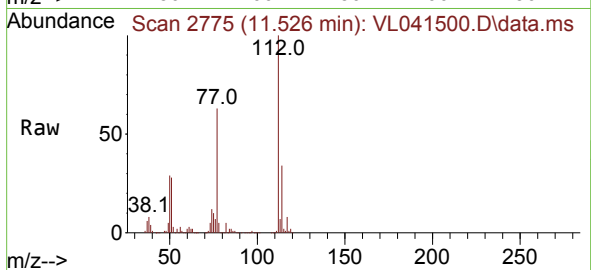
Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :



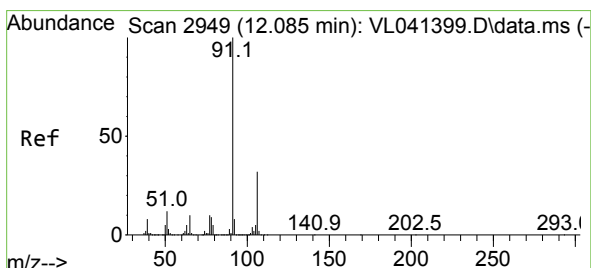
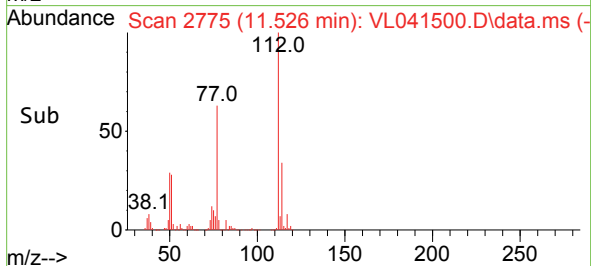
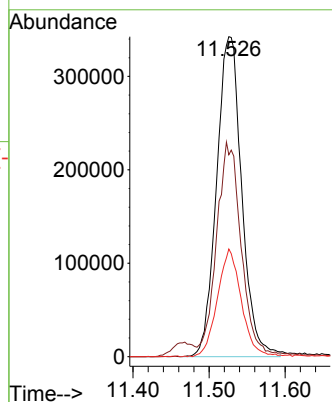
Tgt Ion:112 Resp: 787012

Ion Ratio Lower Upper

112 100

77 61.9 51.1 76.7

114 33.6 29.5 36.1



#58

Ethyl Benzene

Concen: 5.125 ppbv

RT: 12.089 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VL041500.D

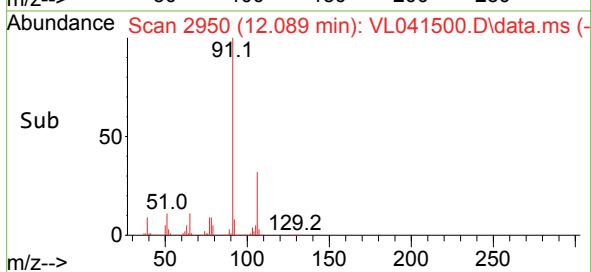
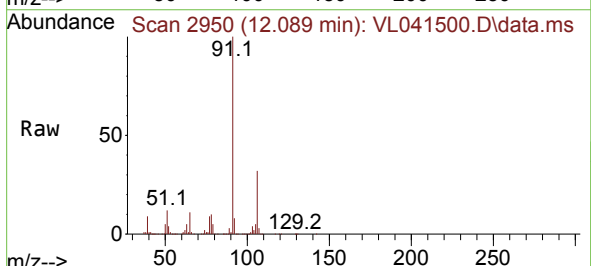
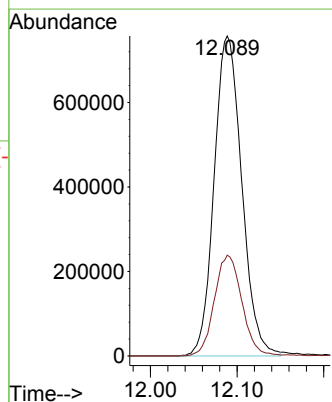
Acq: 5 Aug 2024 14:52

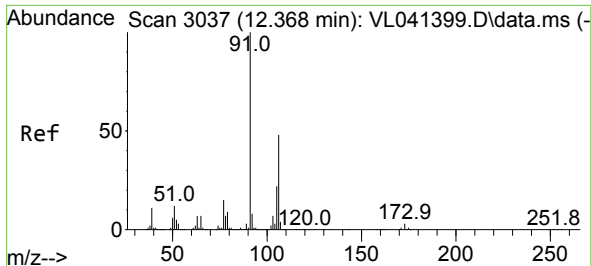
Tgt Ion: 91 Resp: 1678111

Ion Ratio Lower Upper

91 100

106 31.5 25.8 38.8





#59

m/p-Xylene

Concen: 5.937 ppbv

RT: 12.089 min Scan# 29

Delta R.T. -0.280 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

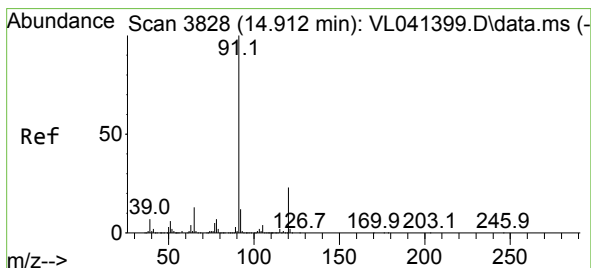
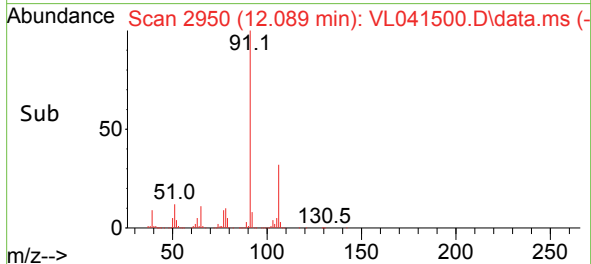
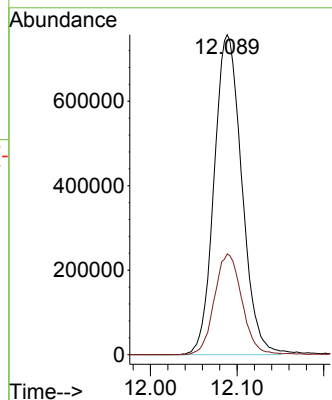
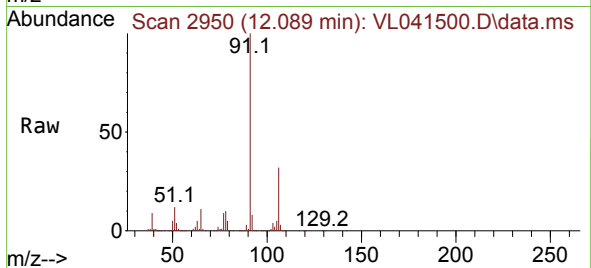
ClientSampleId :

Tgt Ion: 91 Resp: 1678111

Ion Ratio Lower Upper

91 100

106 31.5 36.3 54.5#



#64

n-propylbenzene

Concen: 9.828 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. 0.441 min

Lab File: VL041500.D

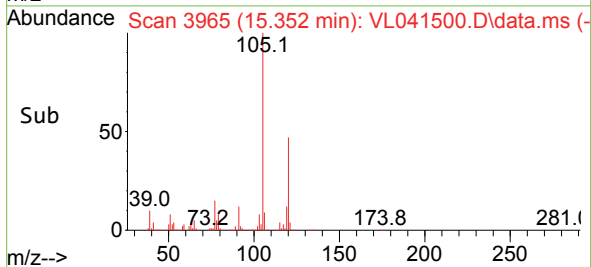
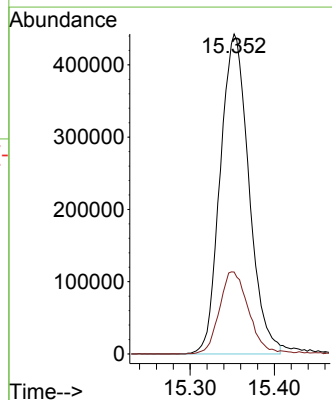
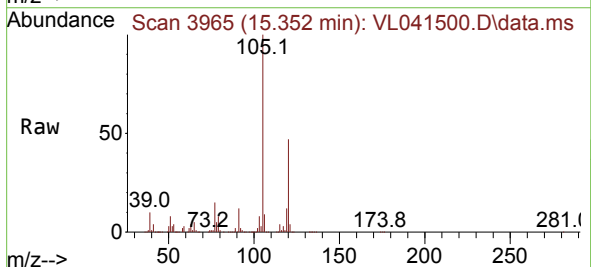
Acq: 5 Aug 2024 14:52

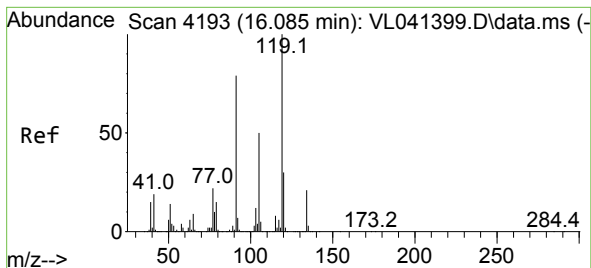
Tgt Ion:120 Resp: 1044427

Ion Ratio Lower Upper

120 100

91 0.0 361.4 542.0#





#65

tert-Butylbenzene

Concen: 0.583 ppbv

RT: 16.108 min Scan# 41

Delta R.T. 0.026 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :

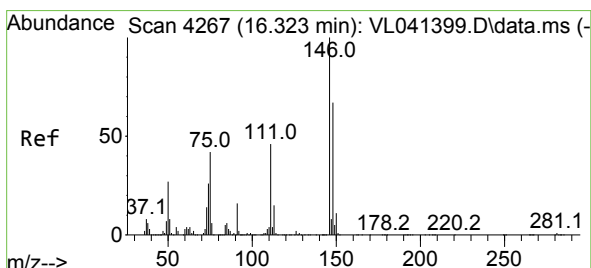
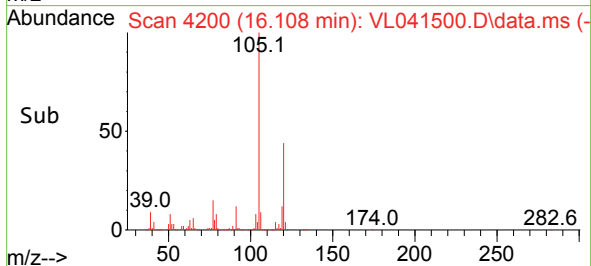
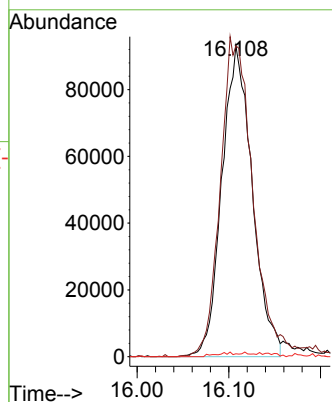
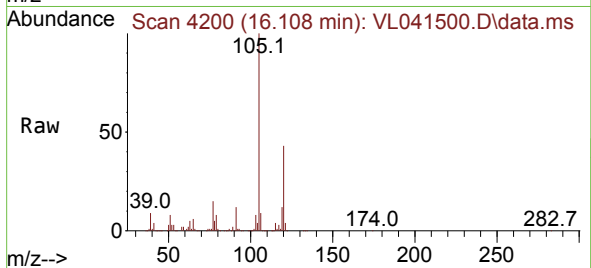
Tgt Ion:119 Resp: 213993

Ion Ratio Lower Upper

119 100

91 112.9 64.2 96.2#

134 1.3 15.7 23.5#



#66

Benzyl Chloride

Concen: 0.106 ppbv

RT: 16.156 min Scan# 4215

Delta R.T. -0.164 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

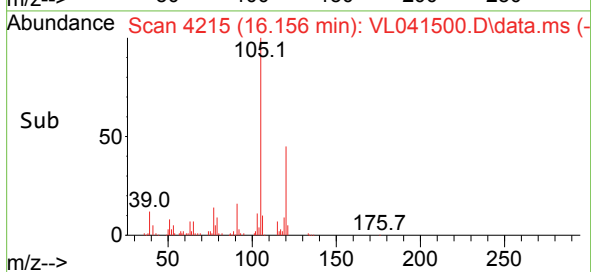
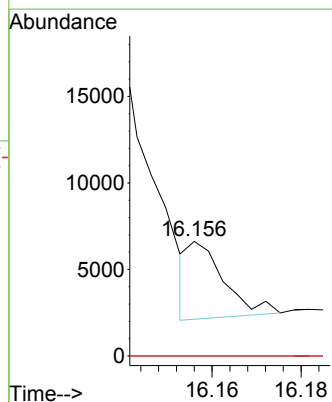
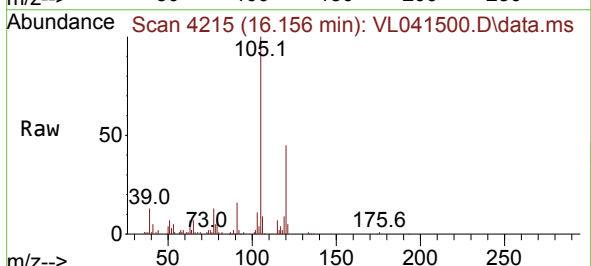
Tgt Ion: 91 Resp: 2498

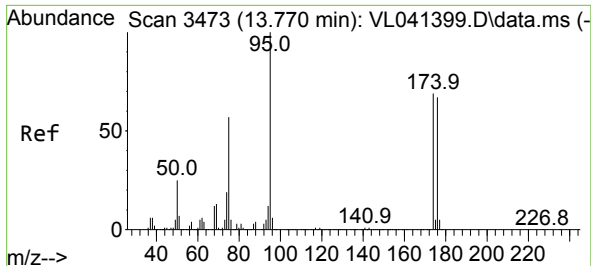
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.8#

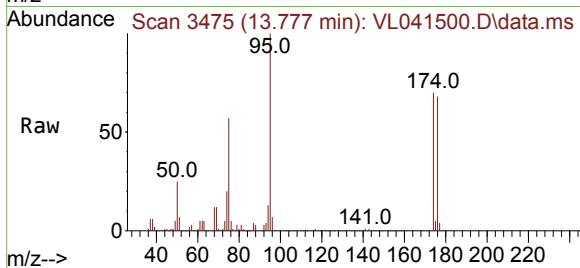
128 0.0 4.4 6.6#



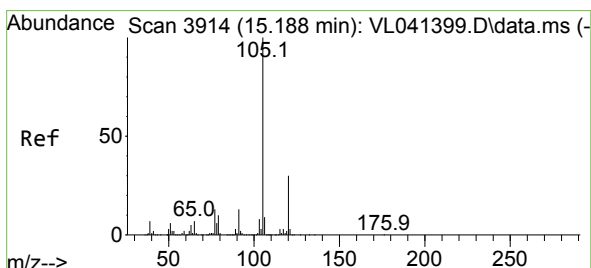
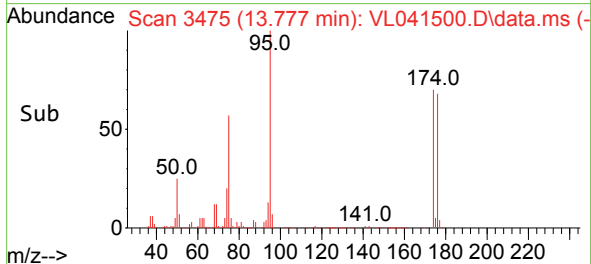
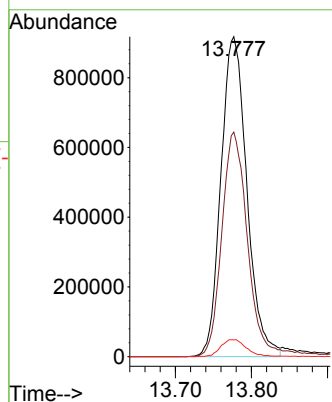


#68
1-Bromo-4-Fluorobenzene
Concen: 9.947 ppbv
RT: 13.777 min Scan# 3473
Delta R.T. 0.010 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

Instrument :
MSVOA_L
ClientSampleId :

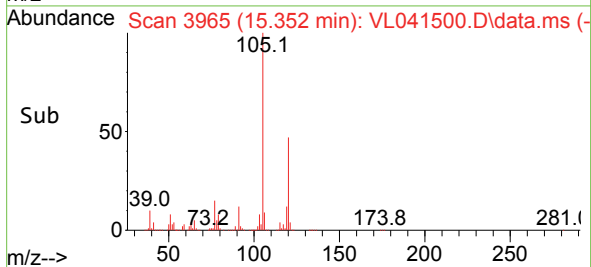
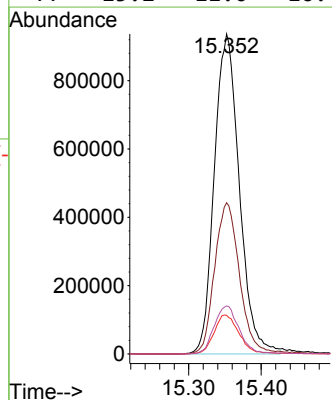
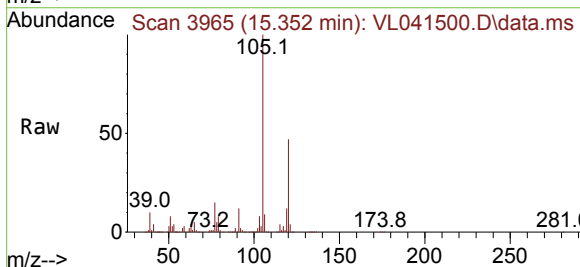


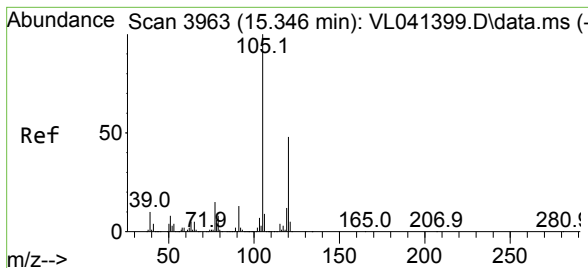
Tgt Ion: 95 Resp: 2174696
Ion Ratio Lower Upper
95 100
174 71.7 56.3 84.5
175 5.5 4.0 6.0



#72
4-Ethyltoluene
Concen: 7.125 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. 0.164 min
Lab File: VL041500.D
Acq: 5 Aug 2024 14:52

Tgt Ion:105 Resp: 2242989
Ion Ratio Lower Upper
105 100
120 47.6 24.2 36.2#
91 12.5 10.4 15.6
77 15.2 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 8.271 ppbv

RT: 15.352 min Scan# 3963

Delta R.T. 0.007 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Instrument :

MSVOA_L

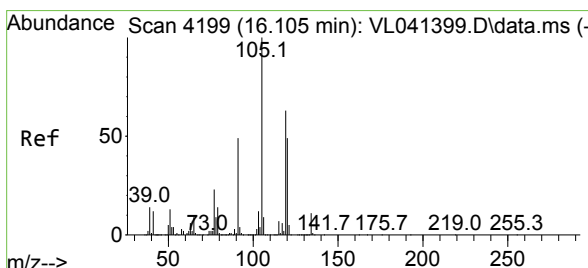
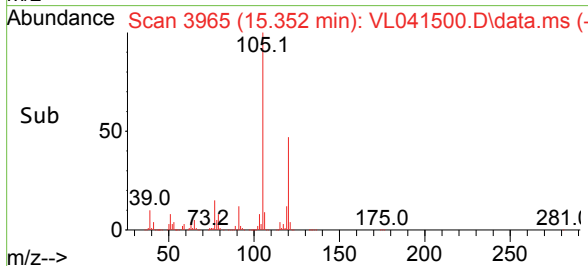
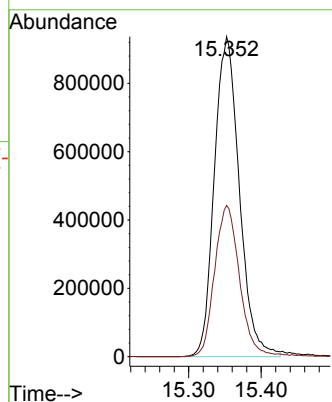
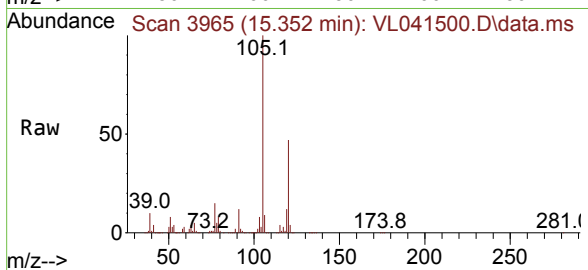
ClientSampleId :

Tgt Ion:105 Resp: 2242989

Ion Ratio Lower Upper

105 100

120 47.3 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 6.099 ppbv

RT: 16.108 min Scan# 4200

Delta R.T. 0.006 min

Lab File: VL041500.D

Acq: 5 Aug 2024 14:52

Tgt Ion:105 Resp: 1922856

Ion Ratio Lower Upper

105 100

120 43.5 39.5 59.3

91 11.7 39.8 59.8#

77 15.0 18.2 27.4#

