

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072224\
 Data File : VL041392.D
 Acq On : 22 Jul 2024 19:04
 Operator : SY/MD
 Sample : P3259-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 23 03:18:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL062624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 23 02:50:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	969466	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2592724	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2316893	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1787025	10.291	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

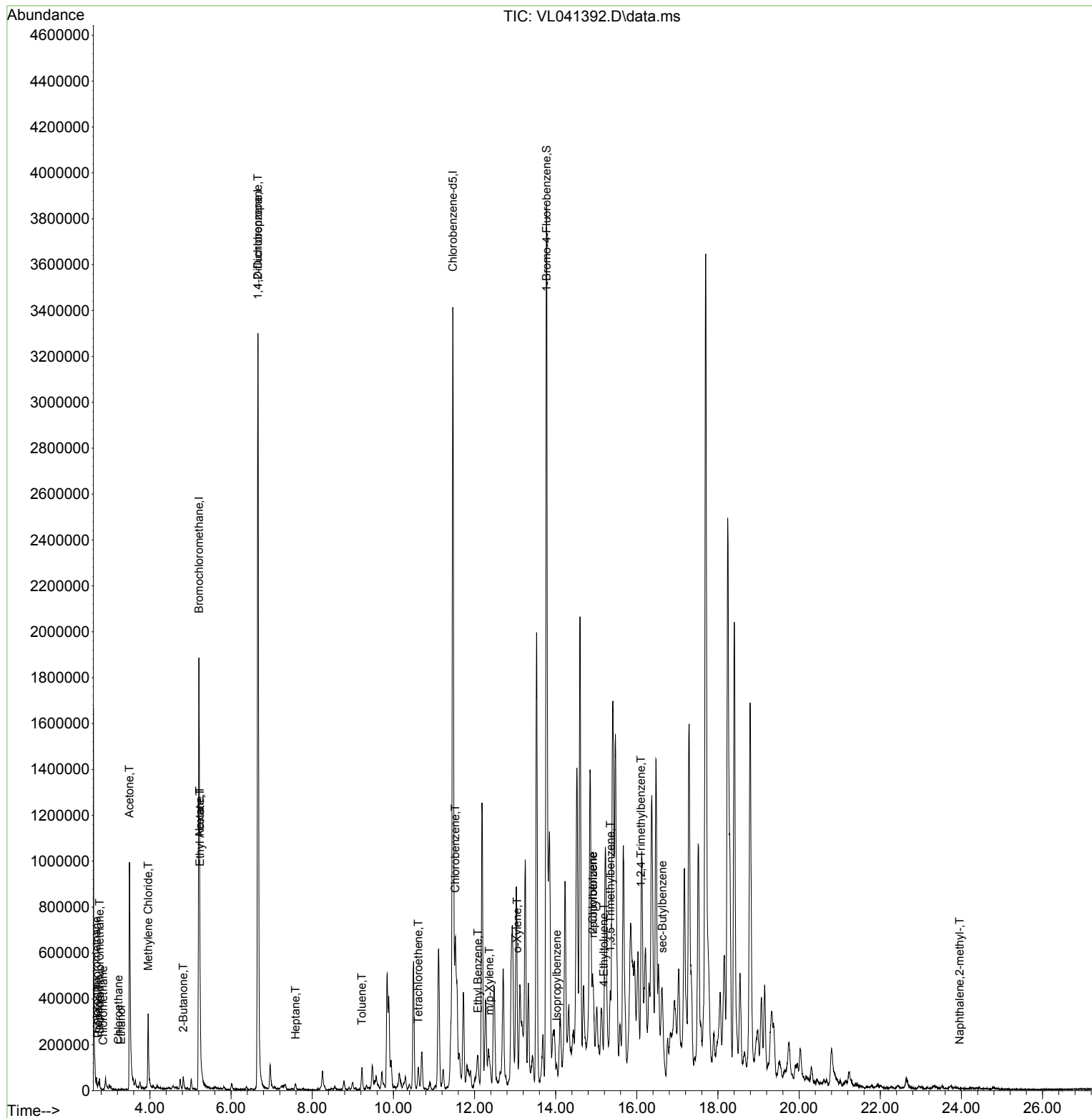
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.758	85	23274	0.141	ppbv	99
3) Chlorodifluoromethane	2.684	51	34451	0.206	ppbv #	68
4) Chloromethane	2.845	50	3283	0.051	ppbv #	78
7) Chloroethane	3.227	64	870	0.038	ppbv #	44
9) Propene	2.726	41	8949	0.155	ppbv	89
10) Heptane	7.587	43	7232	0.053	ppbv #	27
13) Ethanol	3.292	45	976	0.076	ppbv #	41
15) Acetone	3.497	43	1245906	9.731	ppbv	95
20) Methylene Chloride	3.957	84	107282	2.309	ppbv	93
25) Ethyl Acetate	5.230	43	115257	0.489	ppbv #	85
26) Hexane	5.227	57	125059	1.198	ppbv #	49
34) 2-Butanone	4.822	43	66219	0.484	ppbv	92
39) 1,2-Dichloropropane	6.661	63	654784	7.896	ppbv #	23
52) Tetrachloroethene	10.619	164	6007	0.070	ppbv	90
53) Toluene	9.224	91	64037	0.265	ppbv	94
57) Chlorobenzene	11.526	112	18098	0.100	ppbv #	42
58) Ethyl Benzene	12.085	91	31239	0.101	ppbv	96
59) m/p-Xylene	12.368	91	24051	0.090	ppbv #	32
60) o-Xylene	13.053	91	37294	0.147	ppbv	69
62) Isopropylbenzene	14.031	105	26054	0.067	ppbv #	49
64) n-propylbenzene	14.921	120	6650	0.065	ppbv #	1
67) sec-Butylbenzene	16.632	105	17724	0.036	ppbv #	32
71) 2-Chlorotoluene	14.915	91	31248	0.108	ppbv	91
72) 4-Ethyltoluene	15.185	105	39568	0.131	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.352	105	36963	0.143	ppbv	100
74) 1,2,4-Trimethylbenzene	16.101	105	104623	0.360	ppbv #	75
80) Naphthalene,2-methyl-	23.959	142	35	0.085	ppbv #	38

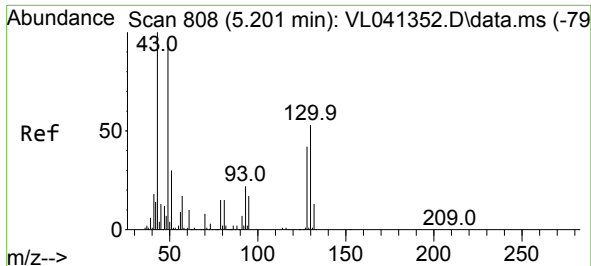
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072224\
Data File : VL041392.D
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Instrument :
MSVOA_L
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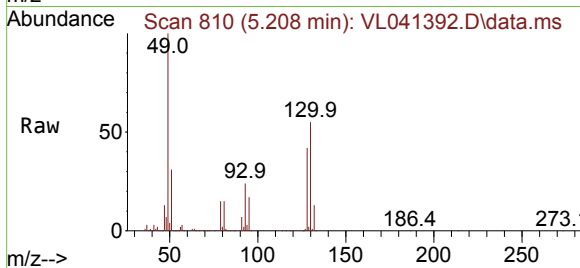
Quant Time: Jul 23 03:18:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL062624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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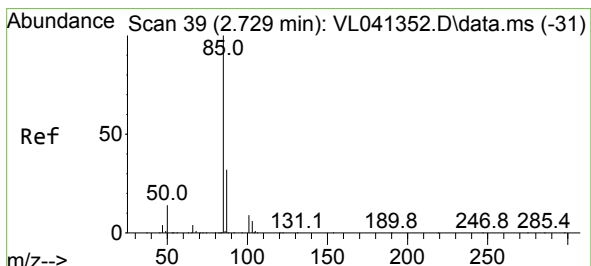
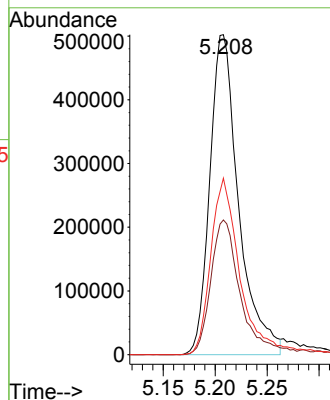
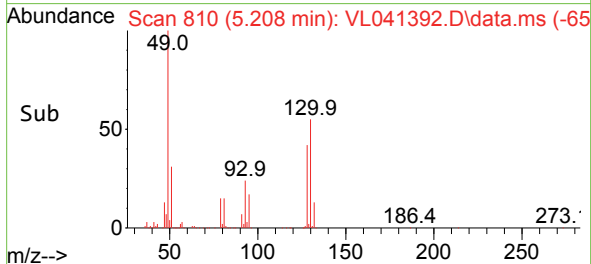


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

Instrument :
 MSVOA_L
 ClientSampleId :

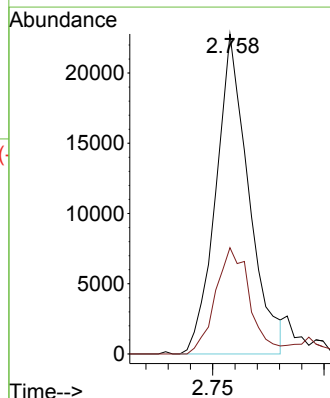
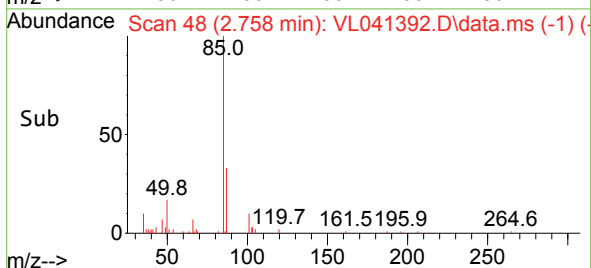
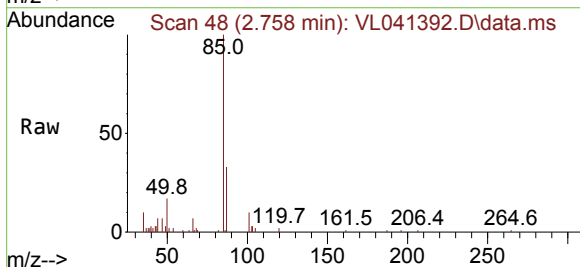


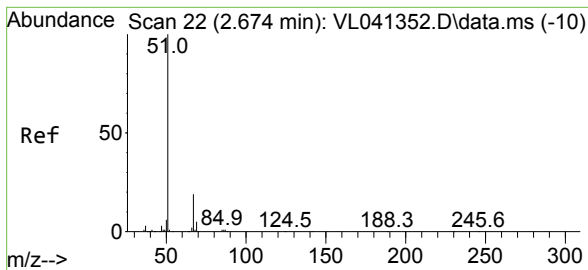
Tgt Ion: 49 Resp: 969466
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.8 68.3
 130 58.0 28.9 86.7



#2
 Dichlorodifluoromethane
 Concen: 0.141 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. -0.016 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

Tgt Ion: 85 Resp: 23274
 Ion Ratio Lower Upper
 85 100
 87 33.2 25.9 38.9

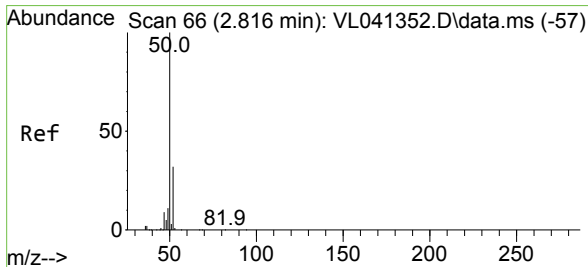
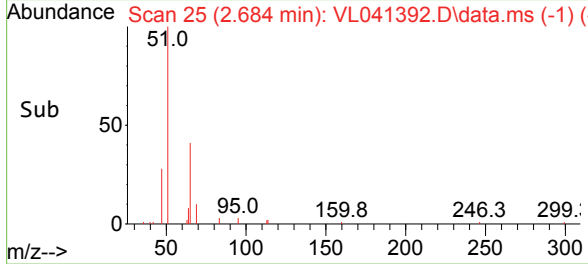
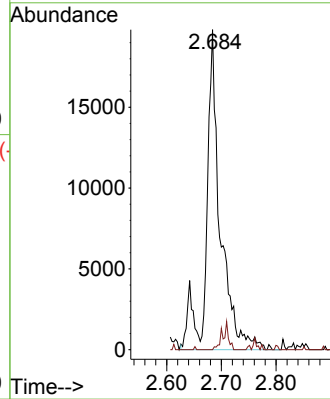
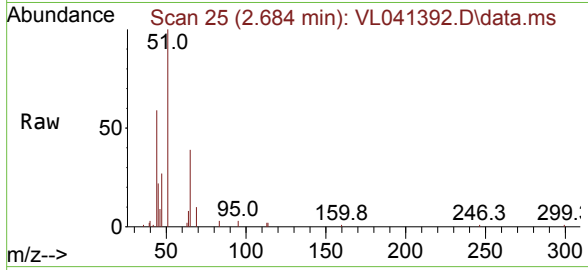




#3
Chlorodifluoromethane
Concen: 0.206 ppbv
RT: 2.684 min Scan# 21
Delta R.T. -0.035 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

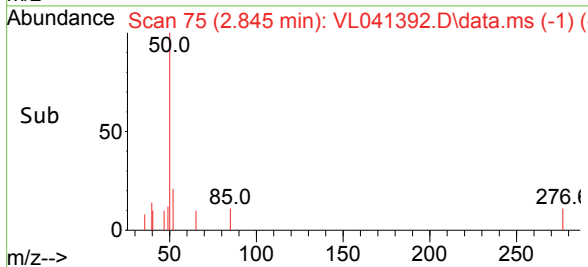
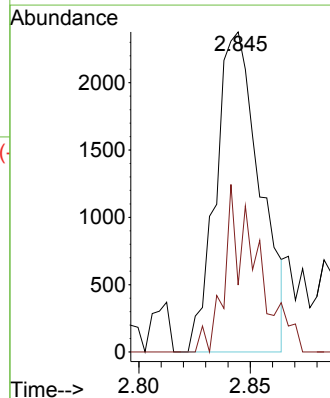
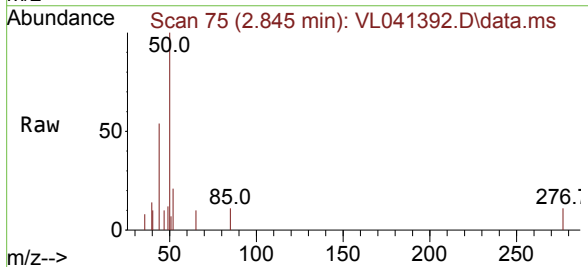
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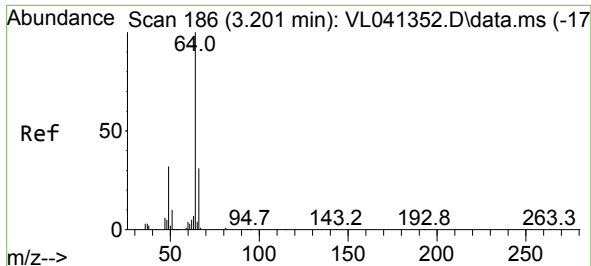
Tgt Ion: 51 Resp: 34451
Ion Ratio Lower Upper
51 100
67 3.8 14.3 21.5#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 2.845 min Scan# 75
Delta R.T. -0.010 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Tgt Ion: 50 Resp: 3283
Ion Ratio Lower Upper
50 100
52 19.6 25.6 38.4#

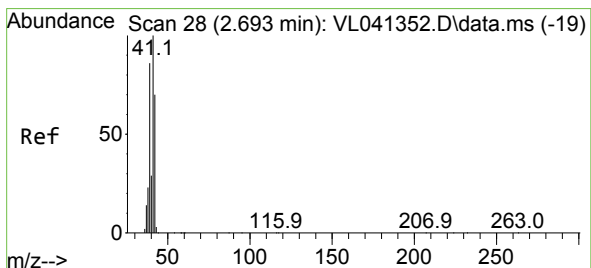
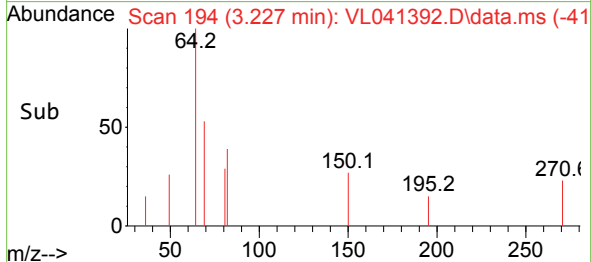
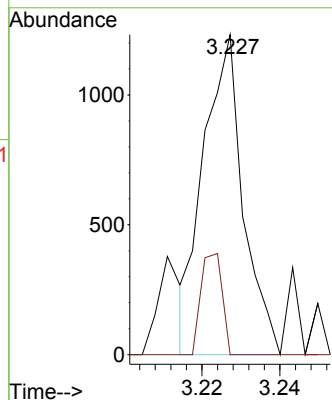
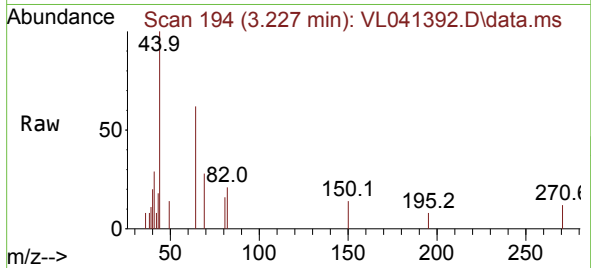




#7
Chloroethane
Concen: 0.038 ppbv
RT: 3.227 min Scan# 19
Delta R.T. -0.010 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

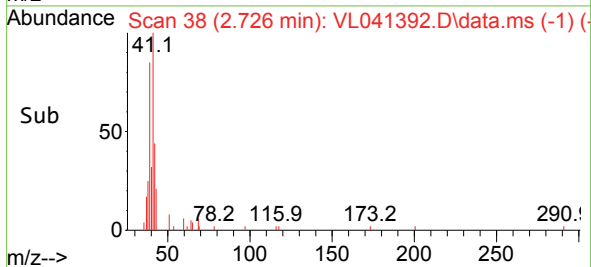
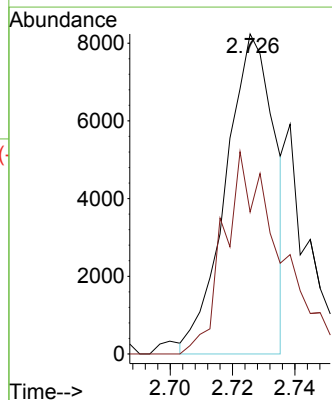
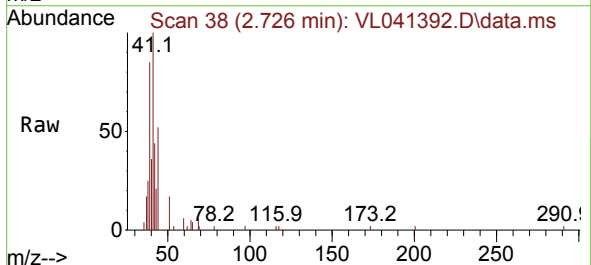
Instrument :
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ClientSampleId :

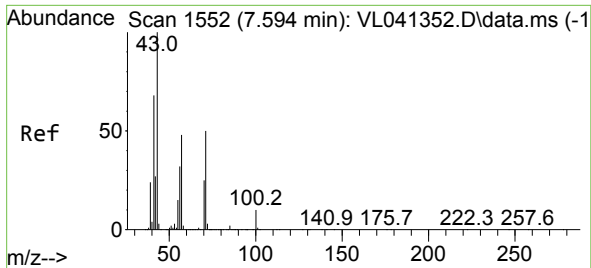
Tgt Ion: 64 Resp: 870
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#9
Propene
Concen: 0.155 ppbv
RT: 2.726 min Scan# 38
Delta R.T. -0.010 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Tgt Ion: 41 Resp: 8949
Ion Ratio Lower Upper
41 100
42 79.1 55.8 83.8

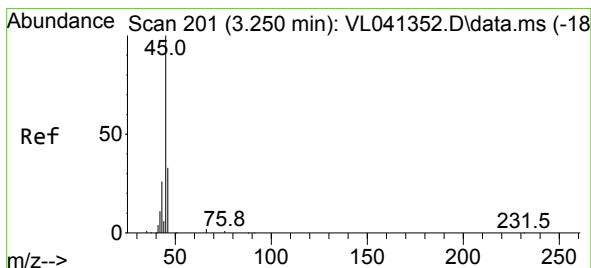
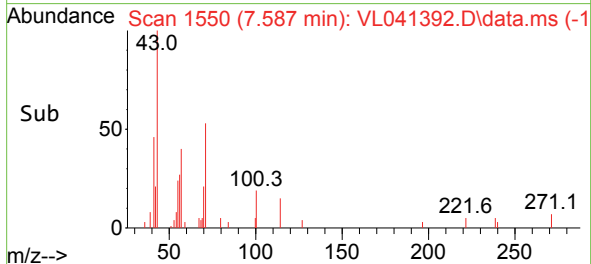
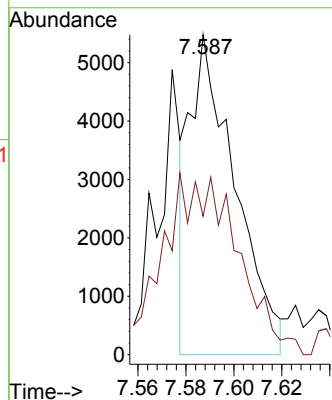
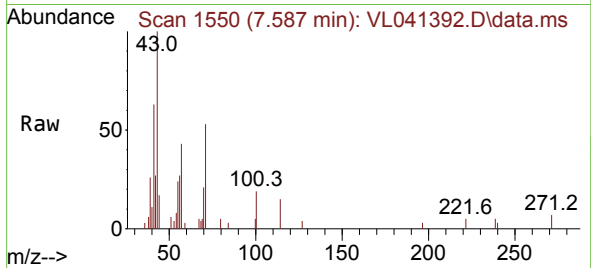




#10
 Heptane
 Concen: 0.053 ppbv
 RT: 7.587 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

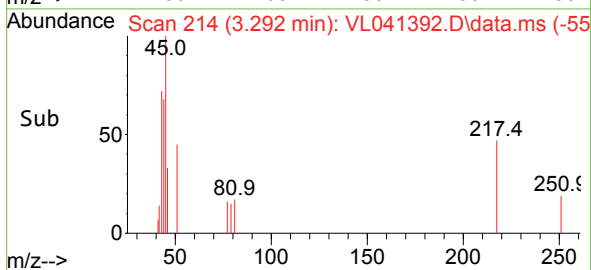
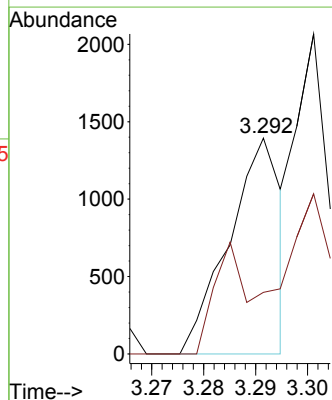
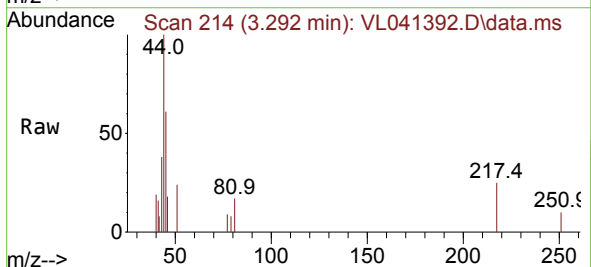
Instrument :
 MSVOA_L
 ClientSampleId :

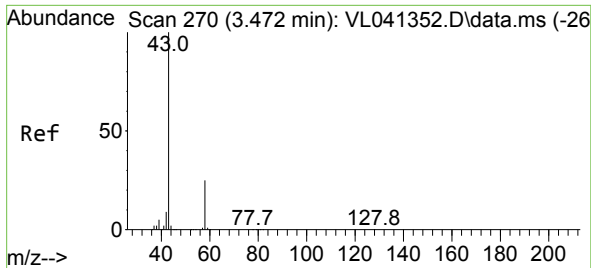
Tgt Ion: 43 Resp: 7232
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.3 60.5#



#13
 Ethanol
 Concen: 0.076 ppbv
 RT: 3.292 min Scan# 214
 Delta R.T. 0.010 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

Tgt Ion: 45 Resp: 976
 Ion Ratio Lower Upper
 45 100
 46 0.0 13.3 53.3#





#15

Acetone

Concen: 9.731 ppbv

RT: 3.497 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

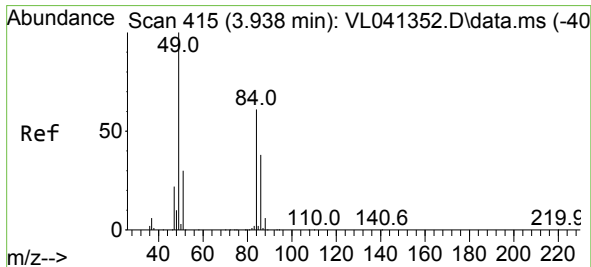
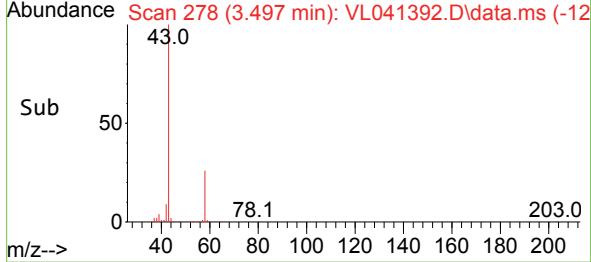
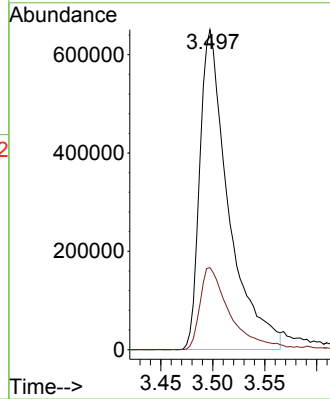
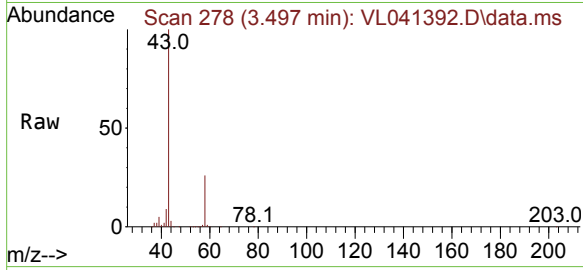
ClientSampleId :

Tgt Ion: 43 Resp: 1245906

Ion Ratio Lower Upper

43 100

58 28.0 20.3 30.5



#20

Methylene Chloride

Concen: 2.309 ppbv

RT: 3.957 min Scan# 421

Delta R.T. -0.006 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Tgt Ion: 84 Resp: 107282

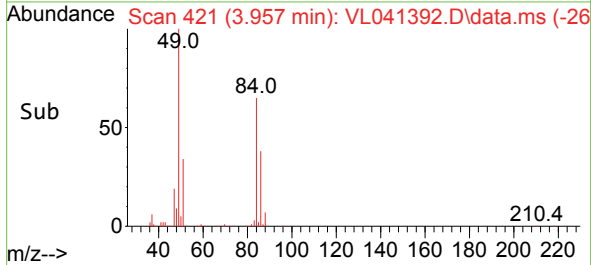
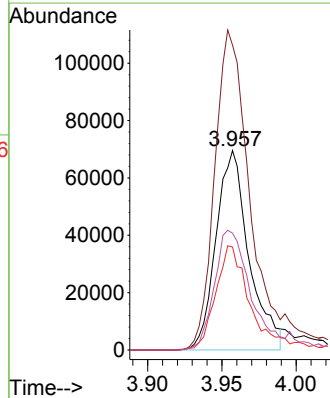
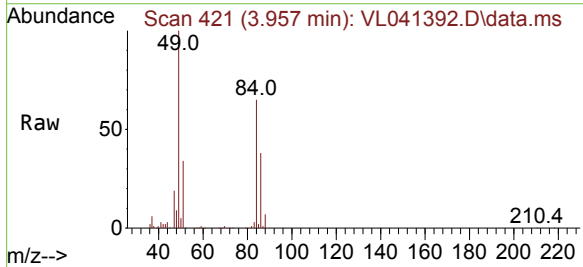
Ion Ratio Lower Upper

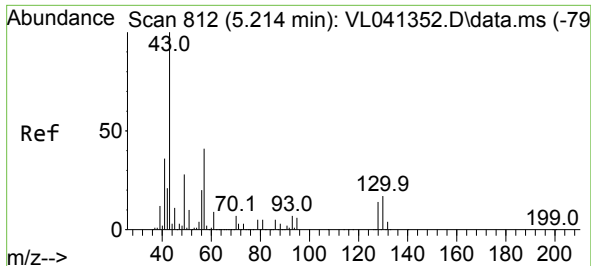
84 100

49 152.5 131.8 197.6

51 51.6 39.6 59.4

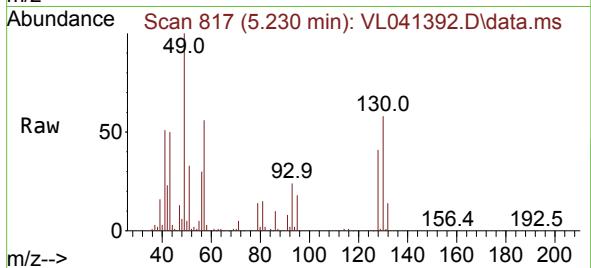
86 58.5 50.2 75.4



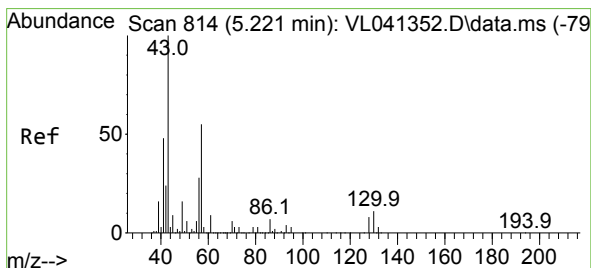
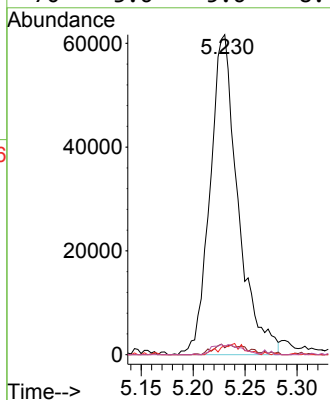
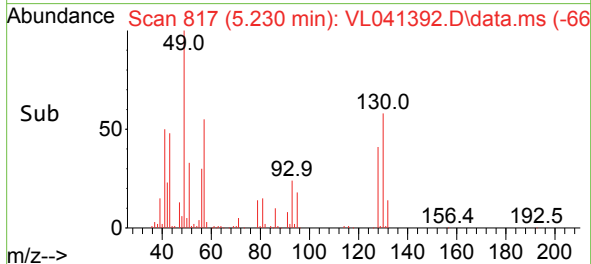


#25
Ethyl Acetate
Concen: 0.489 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

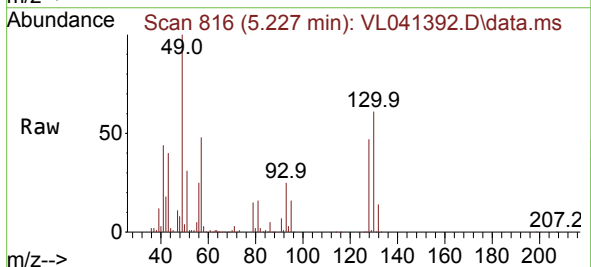
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MSVOA_L
ClientSampleId :



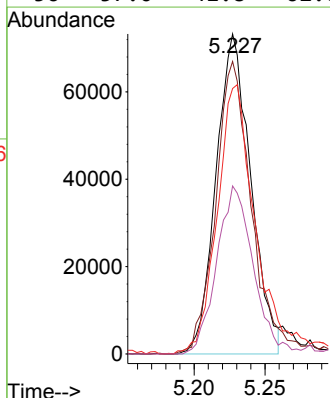
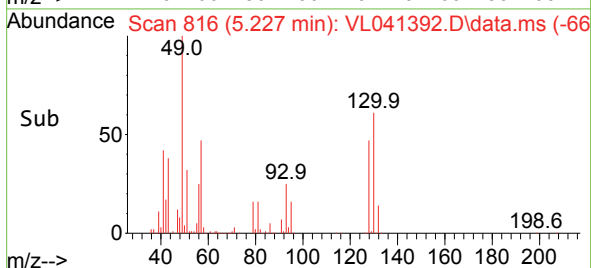
Tgt Ion: 43 Resp: 115257
Ion Ratio Lower Upper
43 100
45 4.0 8.3 12.5#
61 3.1 7.7 11.5#
70 3.6 5.6 8.4#

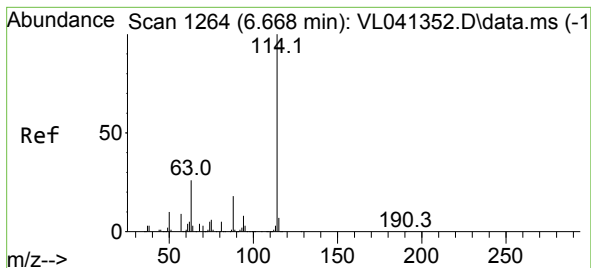


#26
Hexane
Concen: 1.198 ppbv
RT: 5.227 min Scan# 816
Delta R.T. -0.003 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04



Tgt Ion: 57 Resp: 125059
Ion Ratio Lower Upper
57 100
41 97.5 73.7 110.5
43 97.3 182.2 273.2#
56 57.0 41.8 62.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

ClientSampleId :

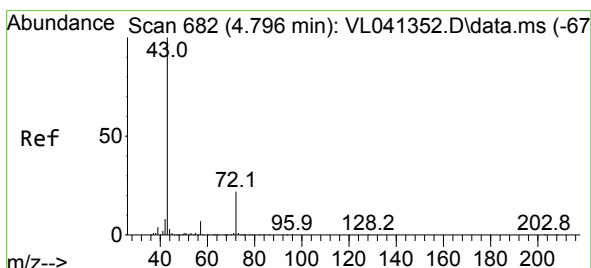
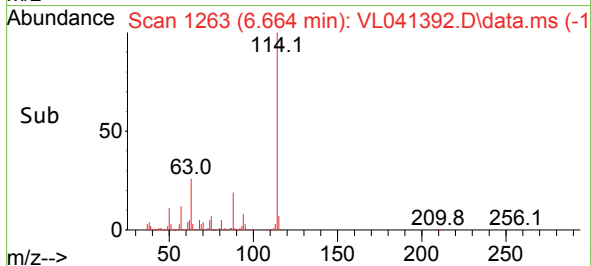
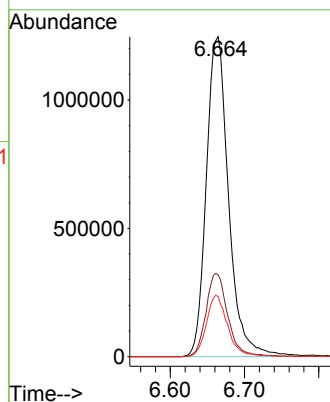
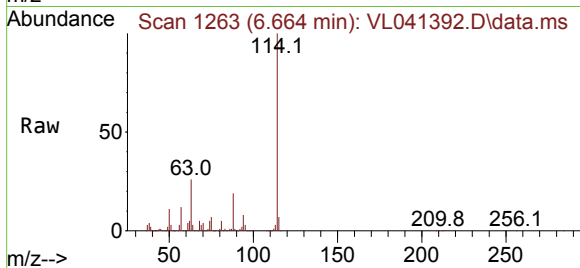
Tgt Ion:114 Resp: 2592724

Ion Ratio Lower Upper

114 100

63 25.7 20.6 31.0

88 18.4 14.6 21.8



#34

2-Butanone

Concen: 0.484 ppbv

RT: 4.822 min Scan# 690

Delta R.T. 0.013 min

Lab File: VL041392.D

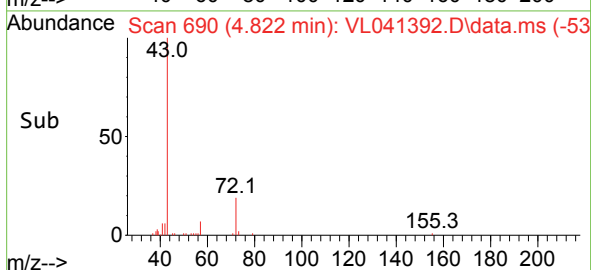
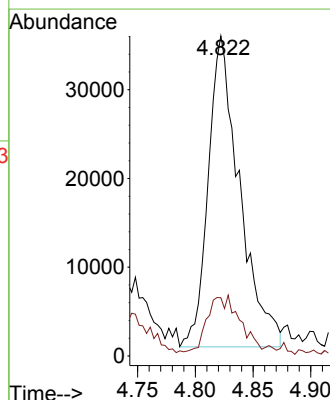
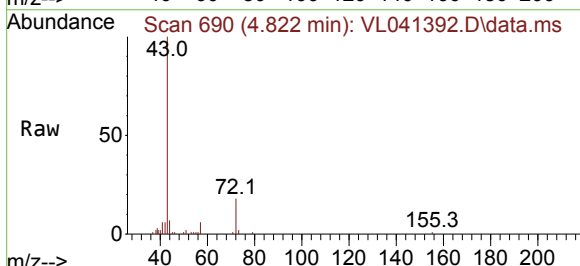
Acq: 22 Jul 2024 19:04

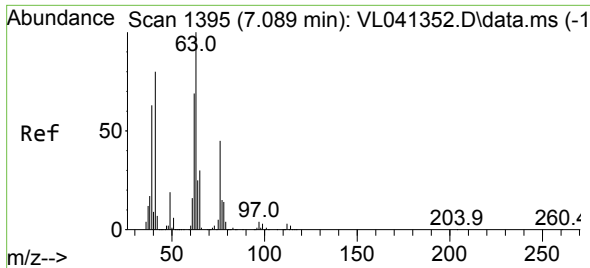
Tgt Ion: 43 Resp: 66219

Ion Ratio Lower Upper

43 100

72 25.1 17.2 25.8





#39

1,2-Dichloropropane

Concen: 7.896 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.428 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

ClientSampleId :

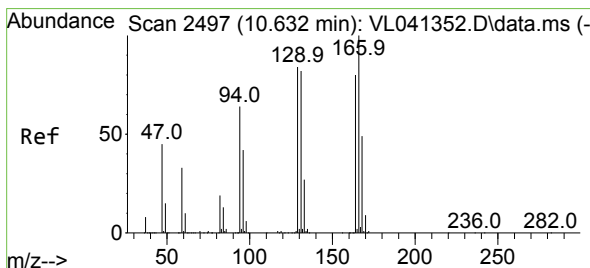
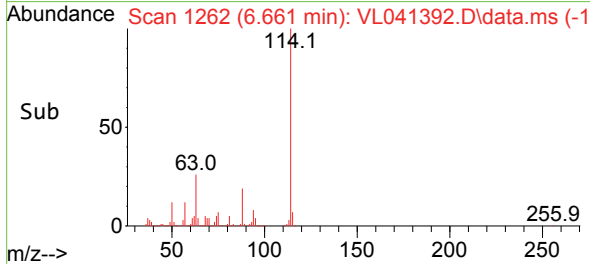
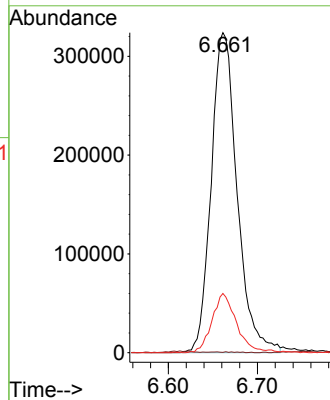
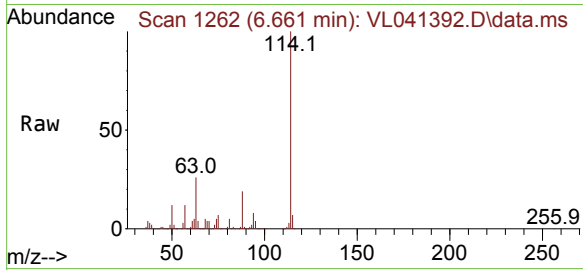
Tgt Ion: 63 Resp: 654784

Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

62 18.4 55.2 82.8#



#52

Tetrachloroethene

Concen: 0.070 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. 0.000 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Tgt Ion:164 Resp: 6007

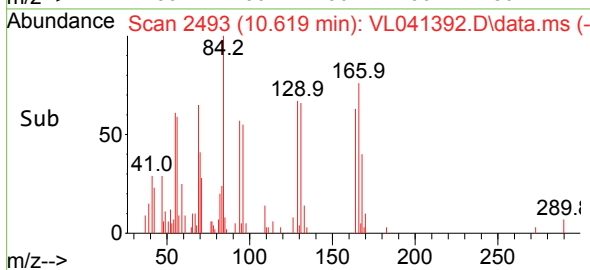
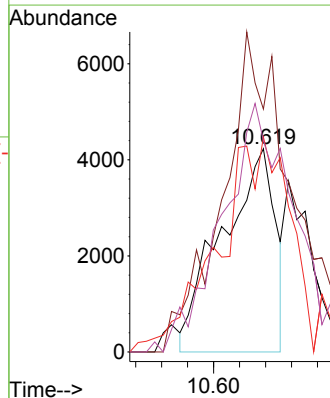
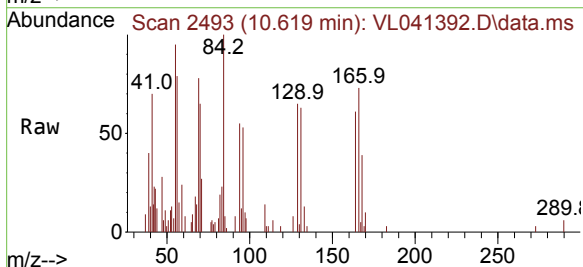
Ion Ratio Lower Upper

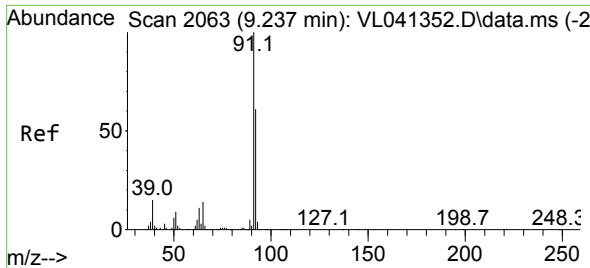
164 100

166 111.7 99.8 149.8

129 97.9 83.8 125.6

131 90.3 82.3 123.5





#53

Toluene

Concen: 0.265 ppbv

RT: 9.224 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

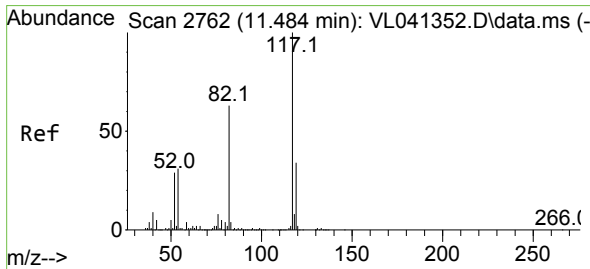
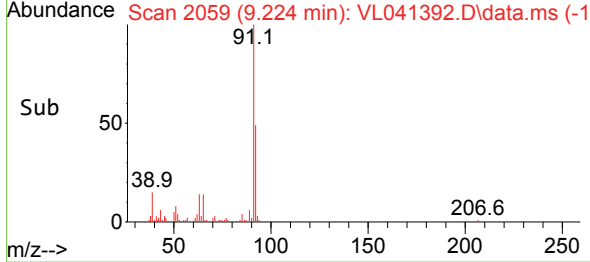
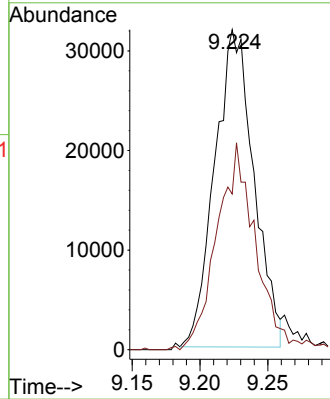
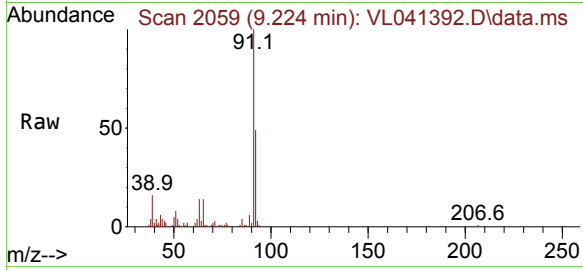
ClientSampleId :

Tgt Ion: 91 Resp: 64037

Ion Ratio Lower Upper

91 100

92 65.2 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. 0.000 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

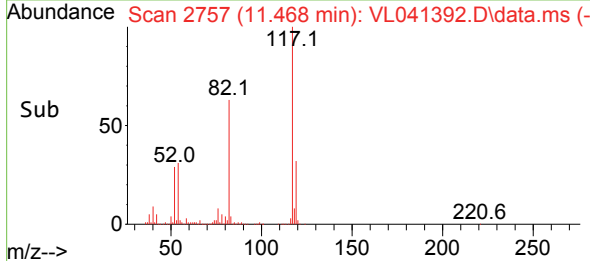
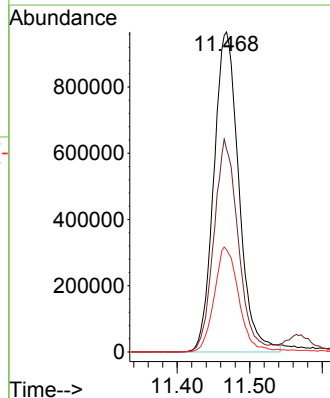
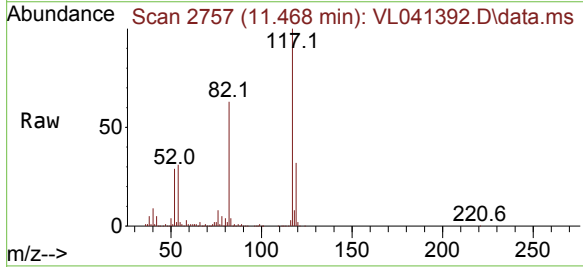
Tgt Ion: 117 Resp: 2316893

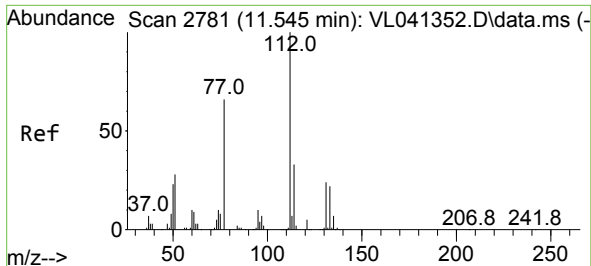
Ion Ratio Lower Upper

117 100

82 64.7 50.6 75.8

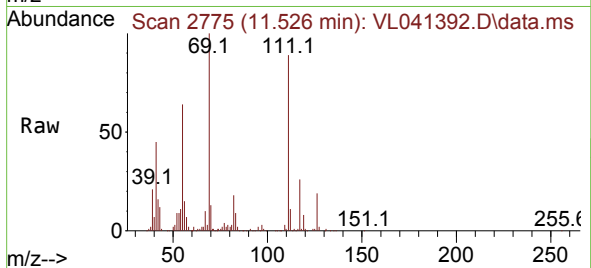
119 33.1 24.7 37.1



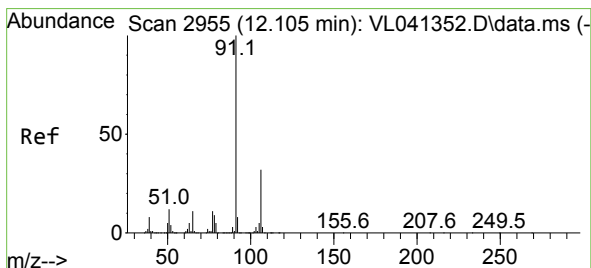
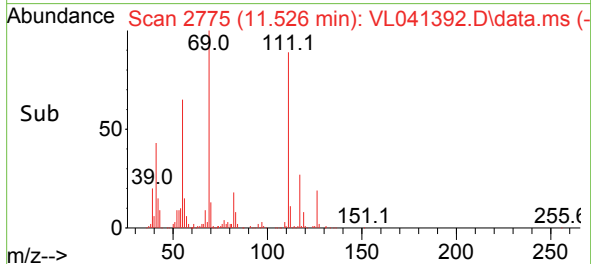
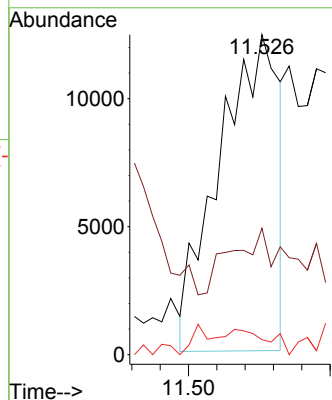


#57
Chlorobenzene
Concen: 0.100 ppbv
RT: 11.526 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Instrument :
MSVOA_L
ClientSampleId :

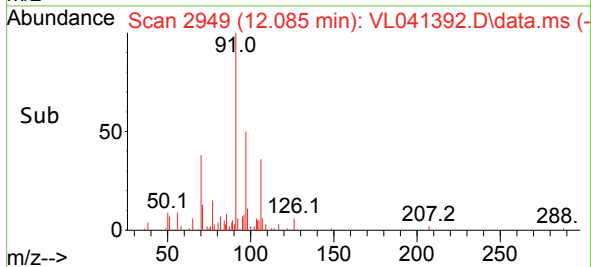
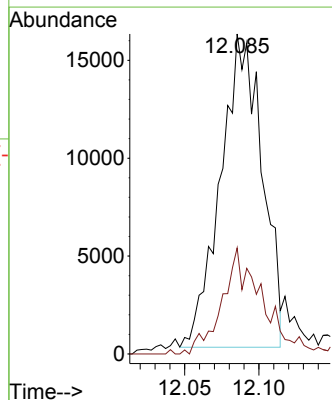
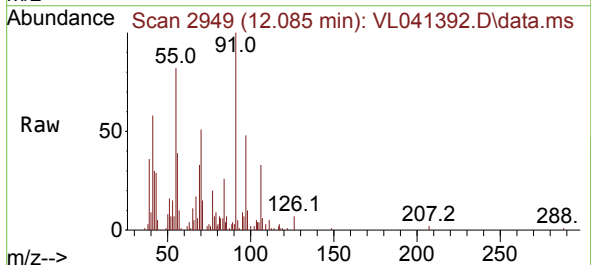


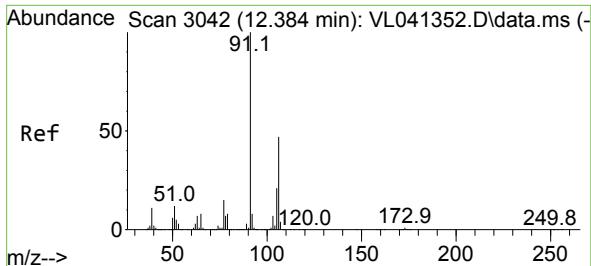
Tgt Ion:112 Resp: 18098
Ion Ratio Lower Upper
112 100
77 16.7 53.2 79.8#
114 5.3 30.1 36.7#



#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Tgt Ion: 91 Resp: 31239
Ion Ratio Lower Upper
91 100
106 33.9 25.4 38.0





#59

m/p-Xylene

Concen: 0.090 ppbv

RT: 12.368 min Scan# 3042

Delta R.T. -0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

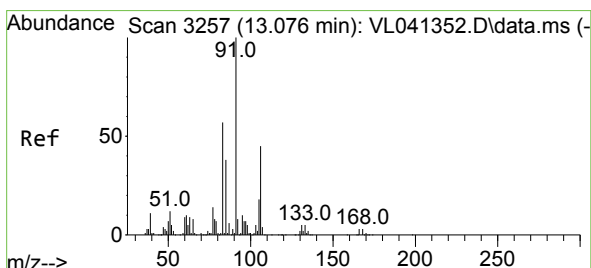
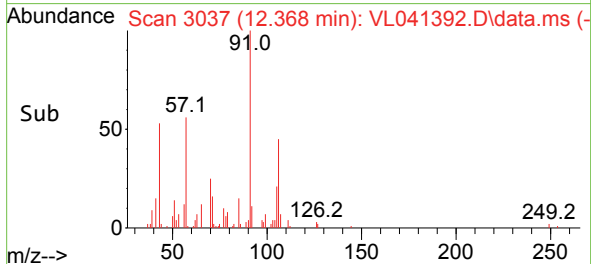
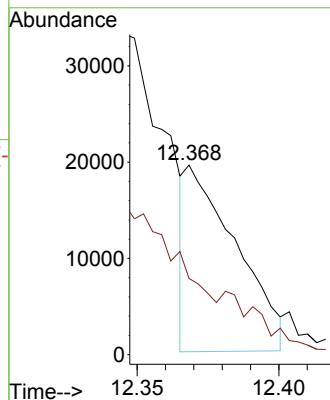
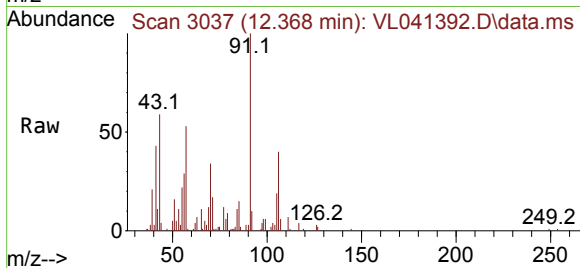
ClientSampleId :

Tgt Ion: 91 Resp: 24051

Ion Ratio Lower Upper

91 100

106 0.0 35.6 53.4#



#60

o-Xylene

Concen: 0.147 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. -0.006 min

Lab File: VL041392.D

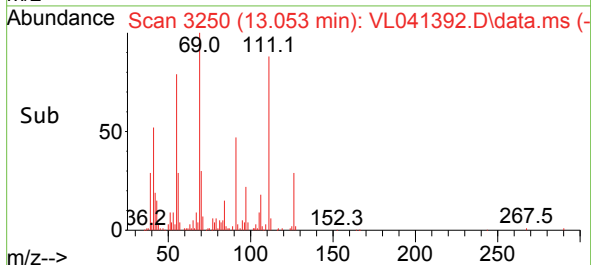
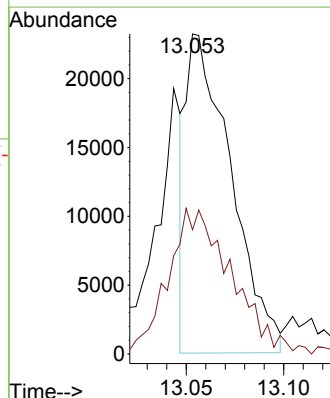
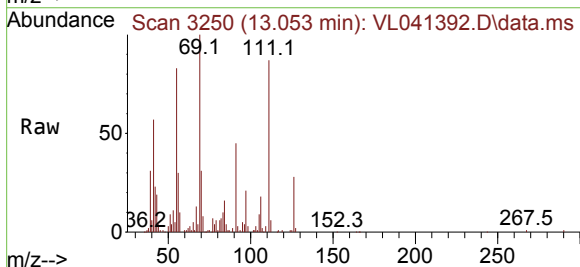
Acq: 22 Jul 2024 19:04

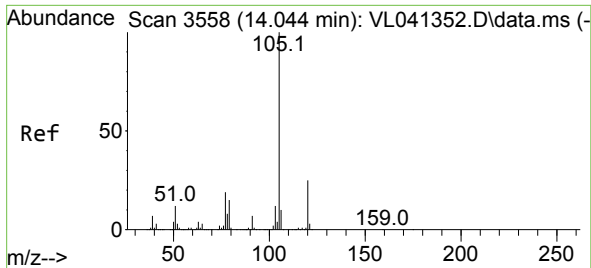
Tgt Ion: 91 Resp: 37294

Ion Ratio Lower Upper

91 100

106 66.8 23.3 69.8

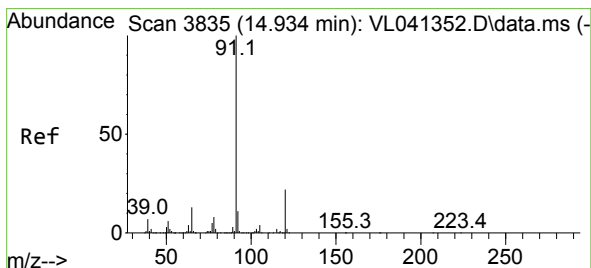
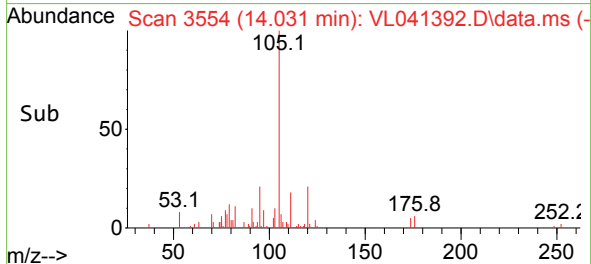
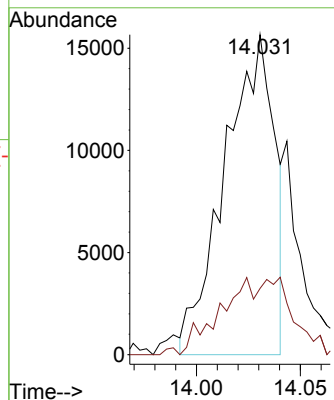
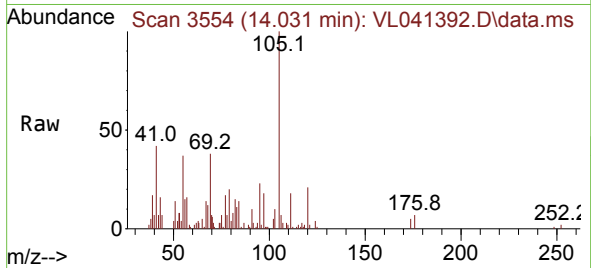




#62
Isopropylbenzene
Concen: 0.067 ppbv
RT: 14.031 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

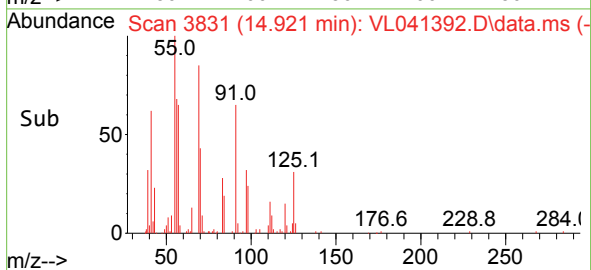
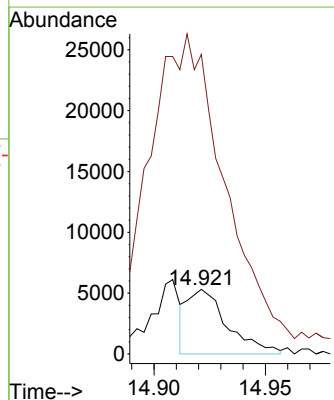
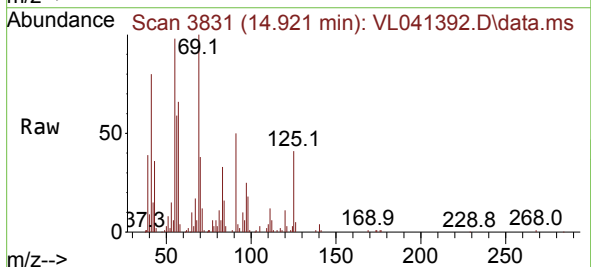
Instrument :
MSVOA_L
ClientSampleId :

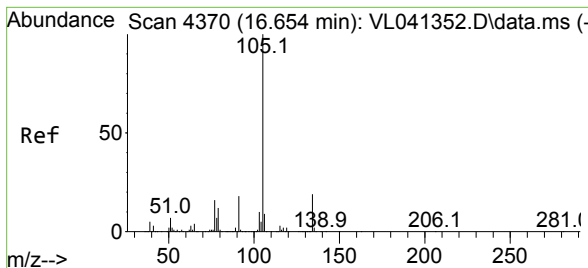
Tgt Ion:105 Resp: 26054
Ion Ratio Lower Upper
105 100
120 0.0 20.9 31.3#



#64
n-propylbenzene
Concen: 0.065 ppbv
RT: 14.921 min Scan# 3831
Delta R.T. 0.007 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Tgt Ion:120 Resp: 6650
Ion Ratio Lower Upper
120 100
91 993.0 378.4 567.6#

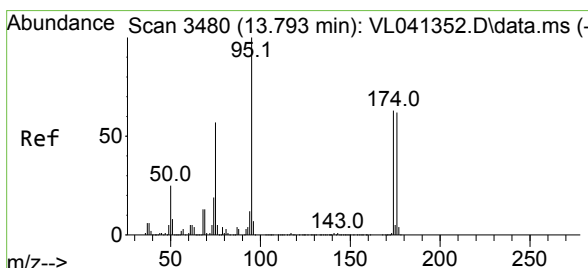
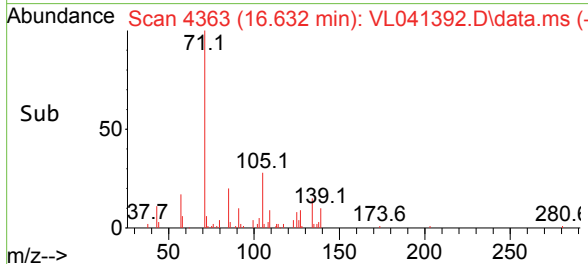
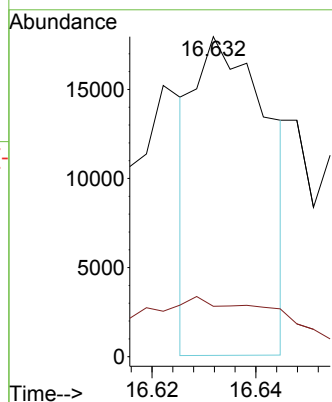
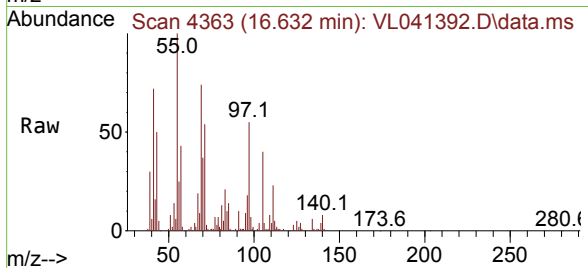




#67
 sec-Butylbenzene
 Concen: 0.036 ppbv
 RT: 16.632 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

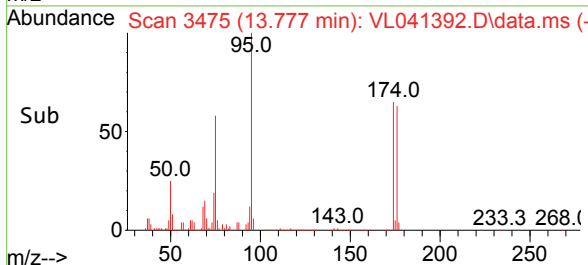
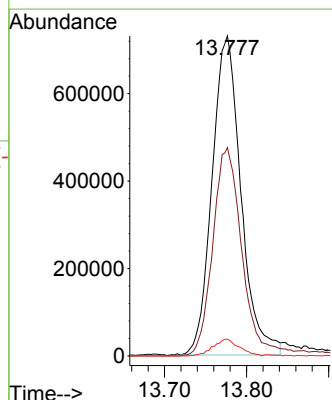
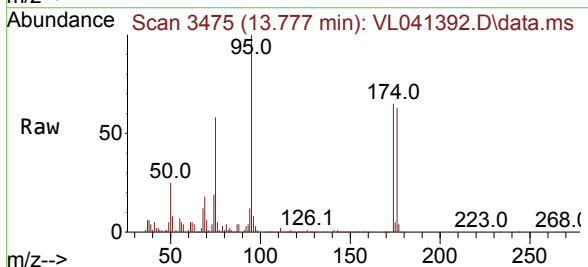
Instrument :
 MSVOA_L
 ClientSampleId :

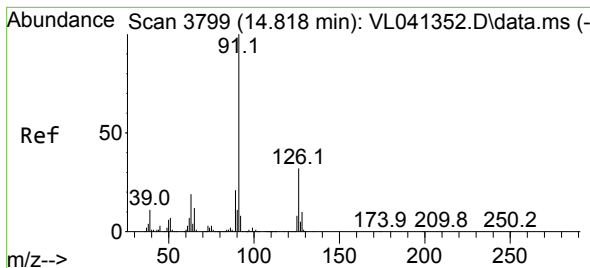
Tgt Ion:105 Resp: 17724
 Ion Ratio Lower Upper
 105 100
 134 47.5 14.2 21.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.291 ppbv
 RT: 13.777 min Scan# 3475
 Delta R.T. 0.000 min
 Lab File: VL041392.D
 Acq: 22 Jul 2024 19:04

Tgt Ion: 95 Resp: 1787025
 Ion Ratio Lower Upper
 95 100
 174 68.5 53.1 79.7
 175 5.0 4.0 6.0

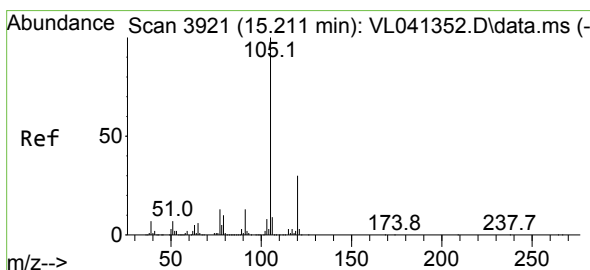
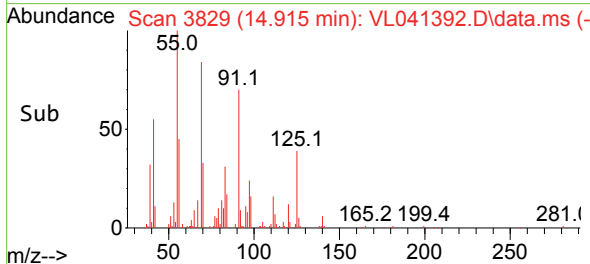
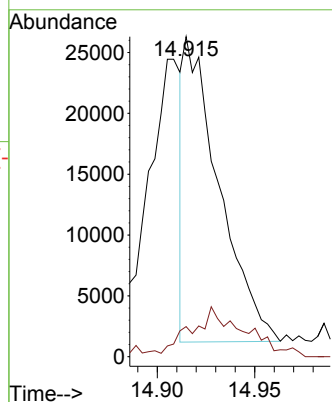
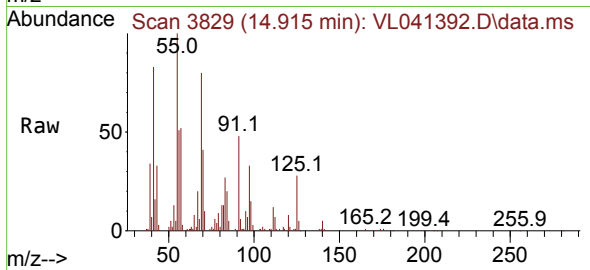




#71
2-Chlorotoluene
Concen: 0.108 ppbv
RT: 14.915 min Scan# 31
Delta R.T. 0.116 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

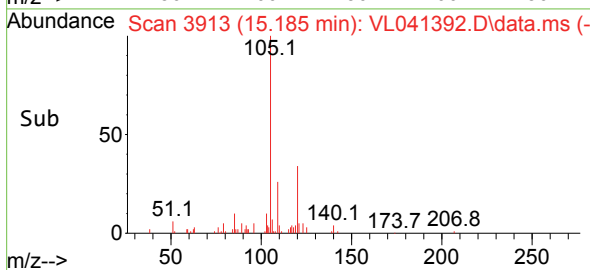
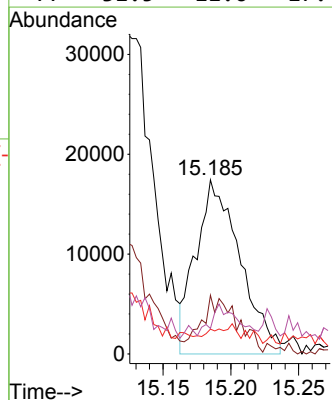
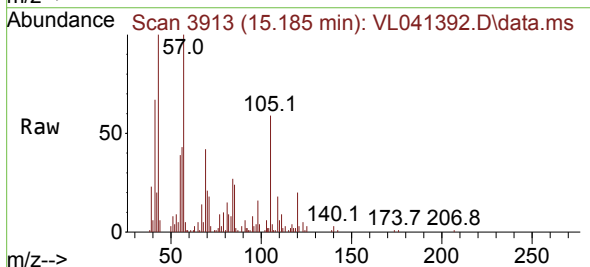
Instrument :
MSVOA_L
ClientSampleId :

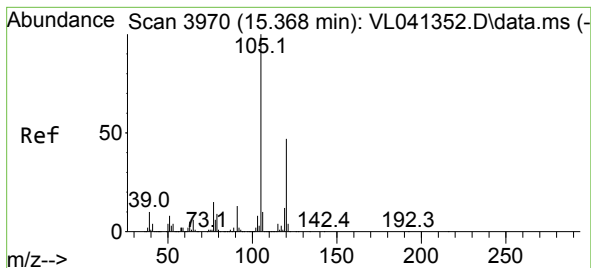
Tgt Ion: 91 Resp: 31248
Ion Ratio Lower Upper
91 100
126 27.1 12.9 51.7



#72
4-Ethyltoluene
Concen: 0.131 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. -0.006 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Tgt Ion:105 Resp: 39568
Ion Ratio Lower Upper
105 100
120 28.2 24.2 36.4
91 10.2 10.2 15.2
77 31.5 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.143 ppbv

RT: 15.352 min Scan# 3970

Delta R.T. 0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Instrument :

MSVOA_L

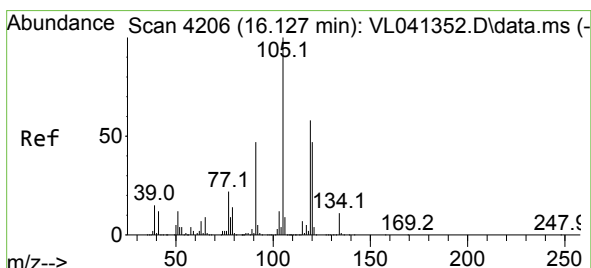
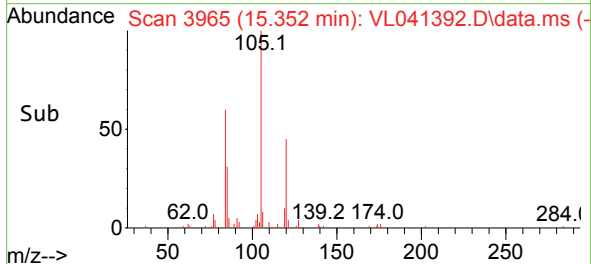
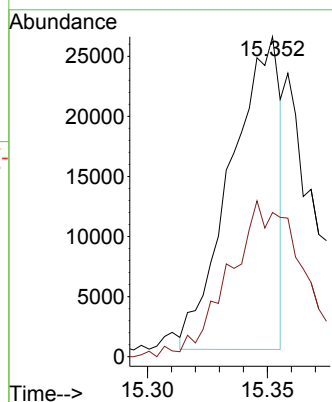
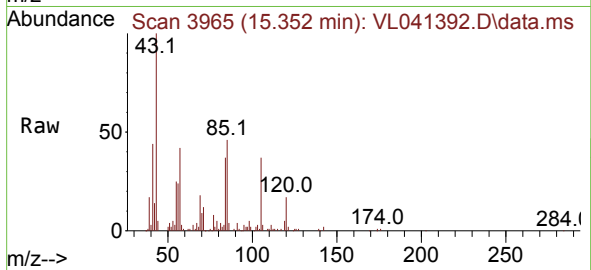
ClientSampleId :

Tgt Ion:105 Resp: 36963

Ion Ratio Lower Upper

105 100

120 46.3 37.3 55.9



#74

1,2,4-Trimethylbenzene

Concen: 0.360 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. -0.003 min

Lab File: VL041392.D

Acq: 22 Jul 2024 19:04

Tgt Ion:105 Resp: 104623

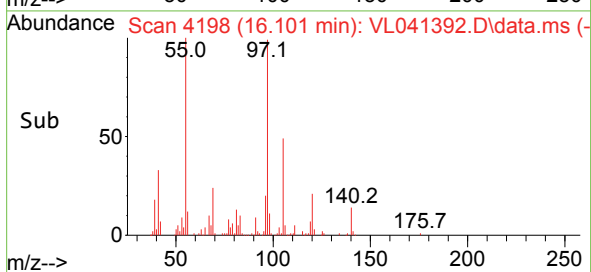
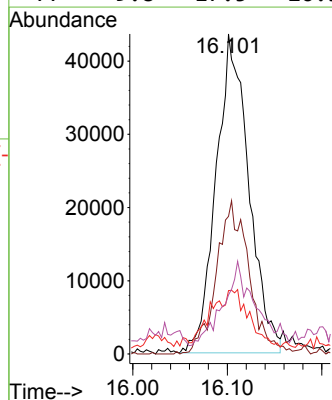
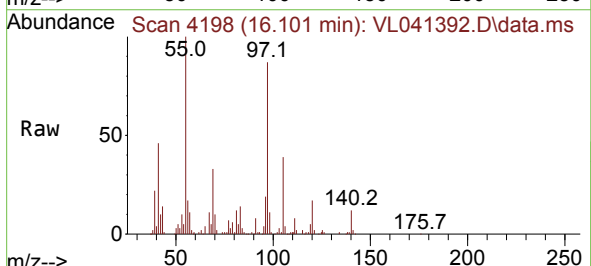
Ion Ratio Lower Upper

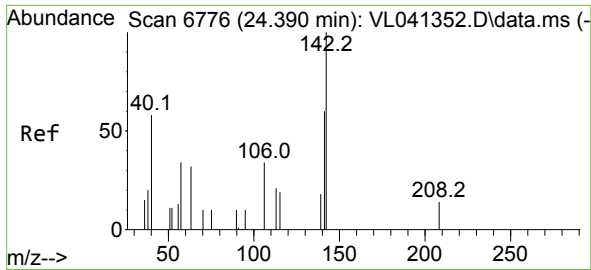
105 100

120 43.2 37.8 56.8

91 17.7 38.0 57.0#

77 9.8 17.5 26.3#





#80
Naphthalene, 2-methyl-
Concen: 0.085 ppbv
RT: 23.959 min Scan# 61
Delta R.T. -0.421 min
Lab File: VL041392.D
Acq: 22 Jul 2024 19:04

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.3	37.9	56.9#
115	0.0	11.0	16.4#

