

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
 Data File : VL041136.D
 Acq On : 4 Apr 2024 22:12
 Operator : SY/MD
 Sample : P1953-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: Apr 05 03:46:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 05 03:20:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1415899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	3899770	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	3527534	10.000	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	2705923	9.501	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.000%

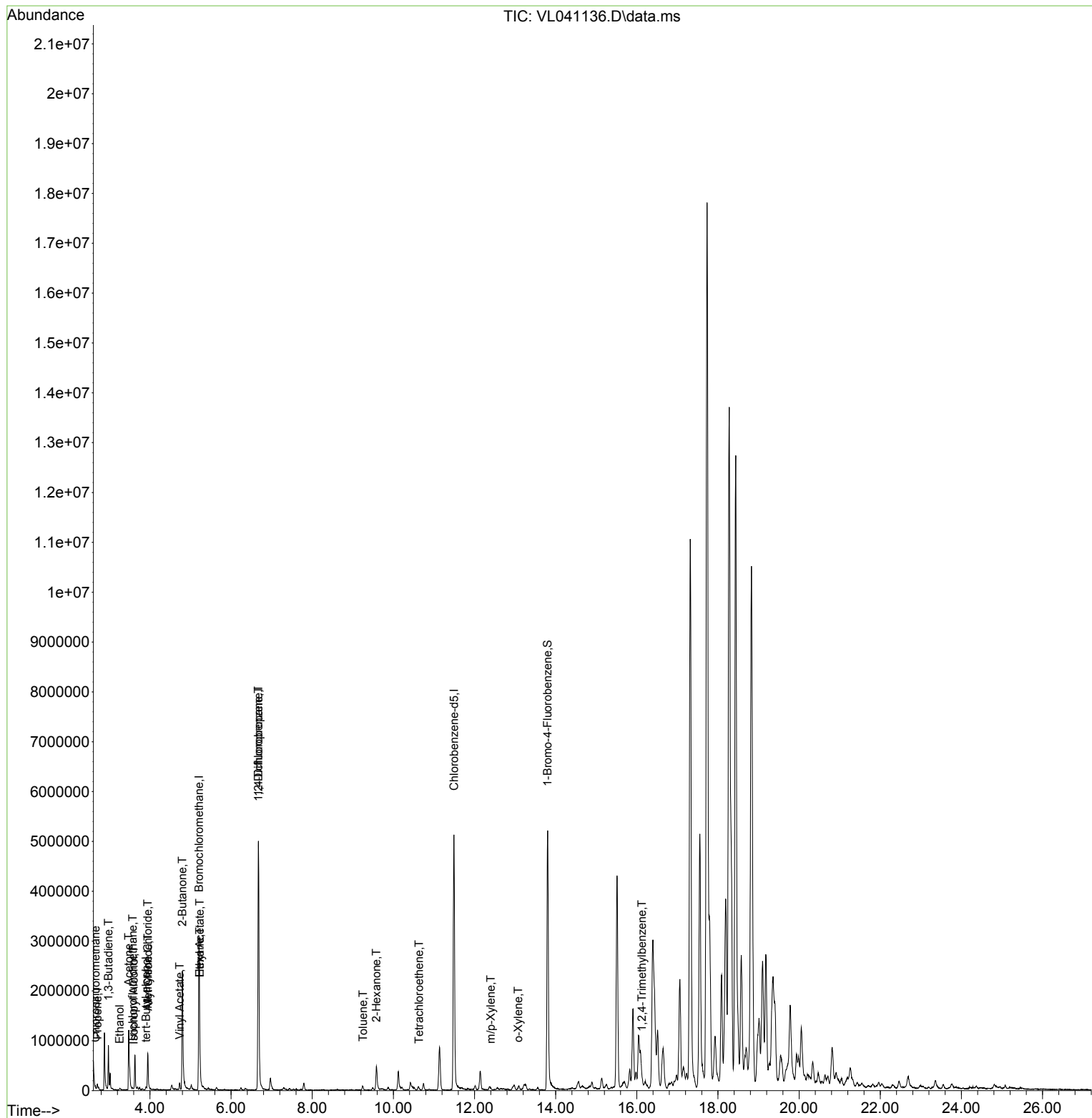
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.661	51	33533	0.154	ppbv #	79
9) Propene	2.703	41	44303	0.639	ppbv	100
11) Trichlorofluoromethane	3.575	101	10202	0.046	ppbv	95
13) Ethanol	3.256	45	33777	2.090	ppbv	99
15) Acetone	3.478	43	1186032	7.736	ppbv #	81
16) 1,3-Butadiene	2.976	39	198006	2.631	ppbv #	16
17) tert-Butyl alcohol	3.906	59	47103	0.338	ppbv #	93
19) Isopropyl Alcohol	3.600	45	9500	0.101	ppbv #	92
20) Methylene Chloride	3.947	84	239509	3.788	ppbv	97
21) Allyl Chloride	3.951	41	4408	0.047	ppbv #	19
23) Vinyl Acetate	4.732	43	37868	0.238	ppbv #	22
25) Ethyl Acetate	5.227	43	80020	0.278	ppbv #	80
26) Hexane	5.227	57	57217	0.443	ppbv #	45
34) 2-Butanone	4.800	43	3007774	17.856	ppbv	99
39) 1,2-Dichloropropane	6.671	63	944722	8.320	ppbv #	23
51) 2-Hexanone	9.581	43	223530	1.115	ppbv #	31
52) Tetrachloroethene	10.635	164	2955	0.032	ppbv #	40
53) Toluene	9.249	91	29267	0.097	ppbv #	20
59) m/p-Xylene	12.400	91	18232	0.052	ppbv #	32
60) o-Xylene	13.079	91	17235	0.052	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.127	105	40701	0.108	ppbv #	68

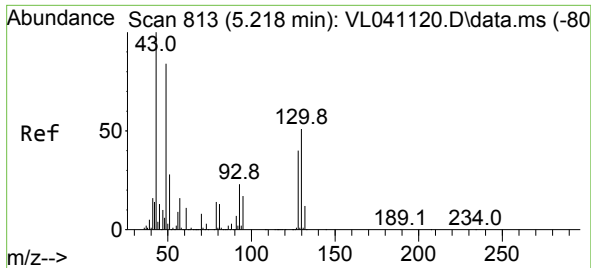
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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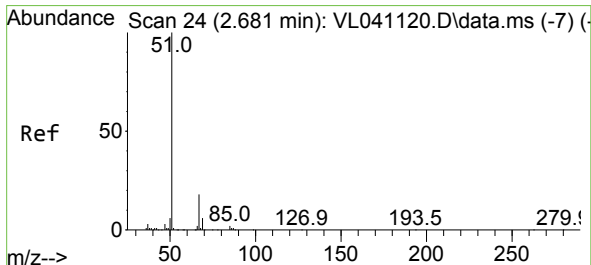
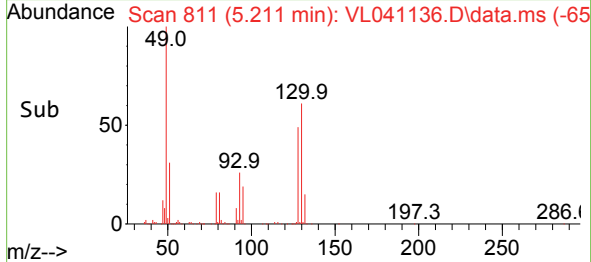
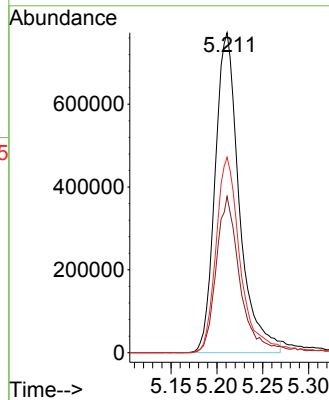
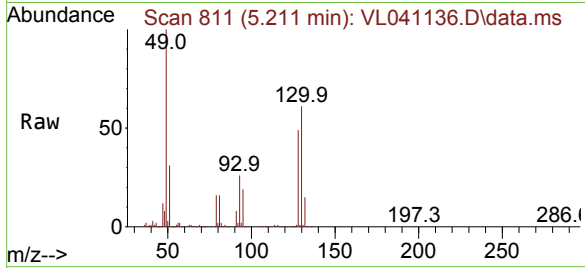




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

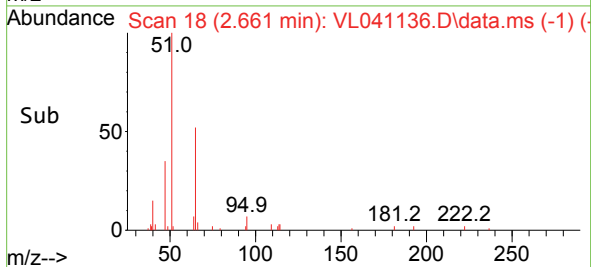
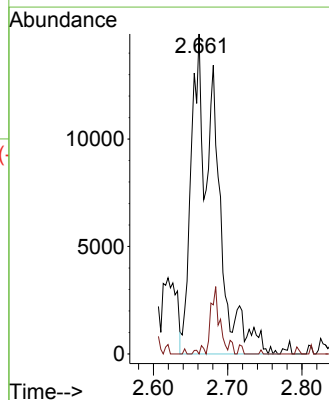
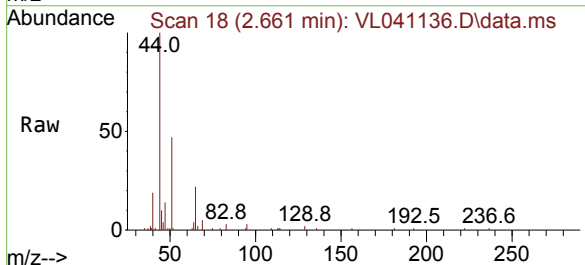
Instrument :
MSVOA_L
ClientSampleId :
SV3

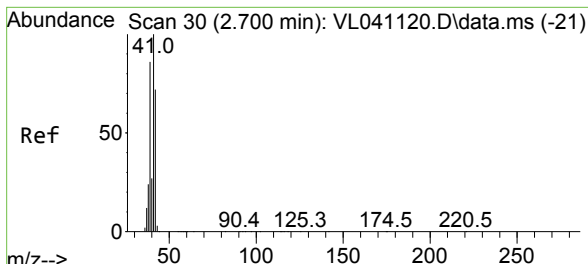
Tgt Ion: 49 Resp: 1415899
Ion Ratio Lower Upper
49 100
128 49.7 23.8 71.5
130 63.9 30.3 90.9



#3
Chlorodifluoromethane
Concen: 0.154 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.019 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

Tgt Ion: 51 Resp: 33533
Ion Ratio Lower Upper
51 100
67 9.0 14.5 21.7#





#9

Propene

Concen: 0.639 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

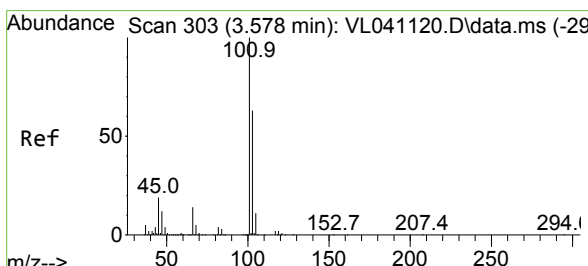
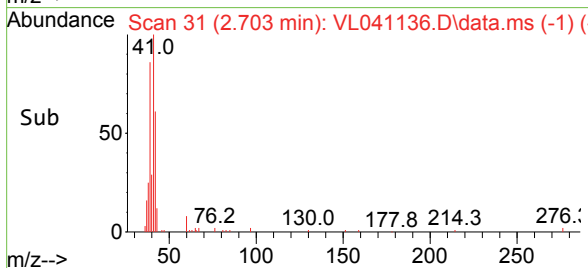
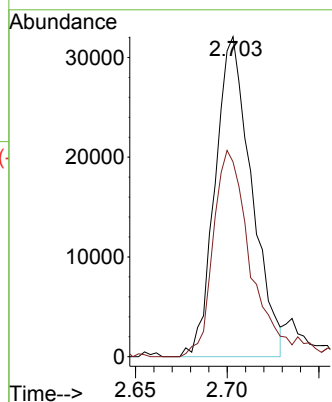
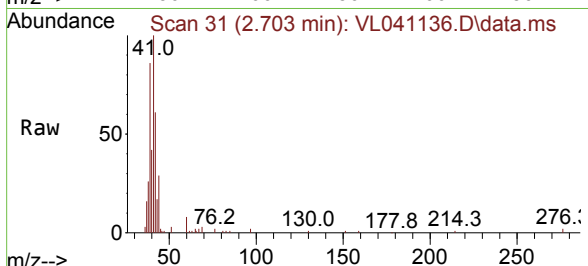
SV3

Tgt Ion: 41 Resp: 44303

Ion Ratio Lower Upper

41 100

42 69.7 55.9 83.9



#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 3.575 min Scan# 302

Delta R.T. -0.003 min

Lab File: VL041136.D

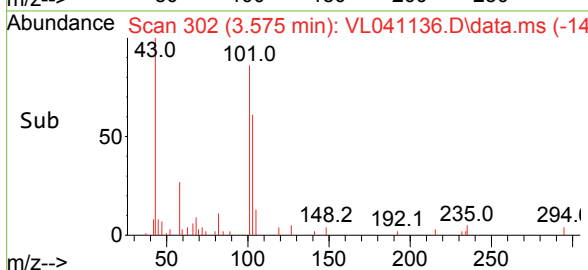
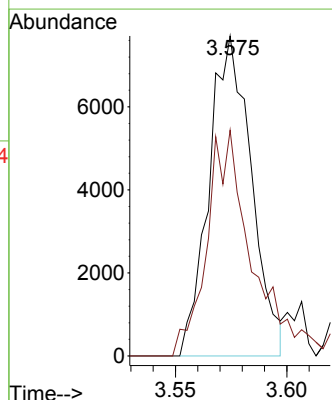
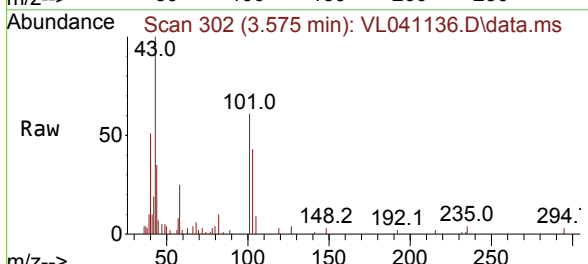
Acq: 4 Apr 2024 22:12

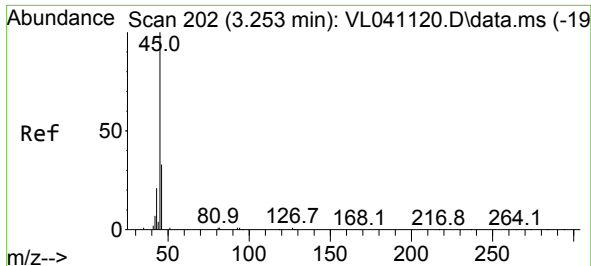
Tgt Ion: 101 Resp: 10202

Ion Ratio Lower Upper

101 100

103 62.2 53.0 79.4

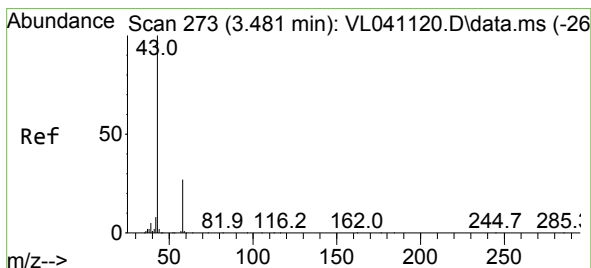
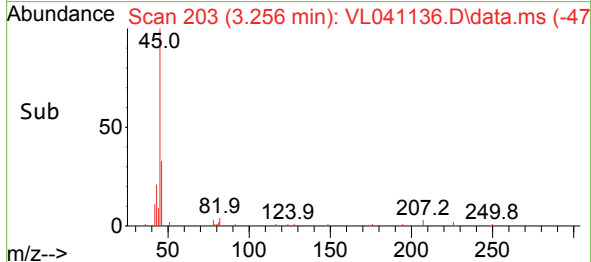
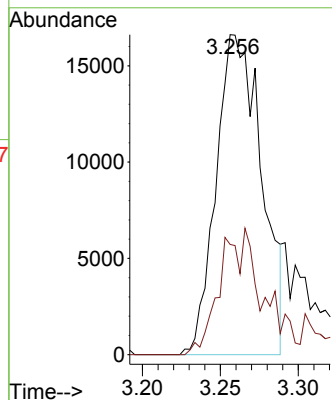
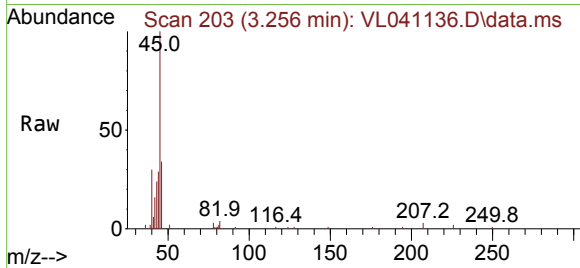




#13
Ethanol
Concen: 2.090 ppbv
RT: 3.256 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

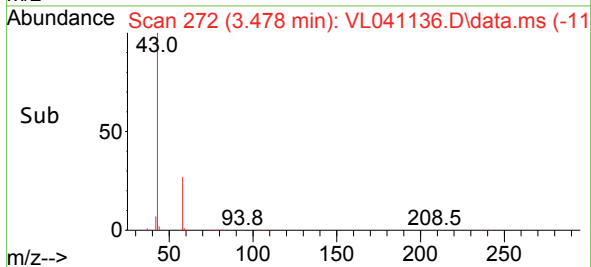
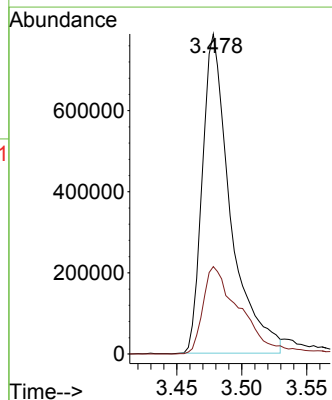
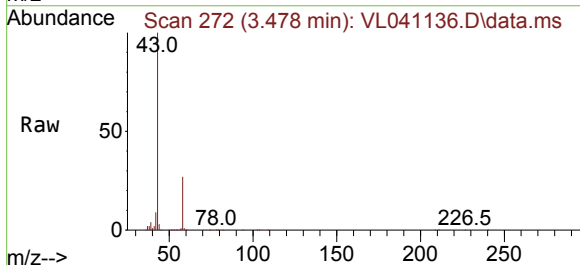
Instrument :
MSVOA_L
ClientSampleId :
SV3

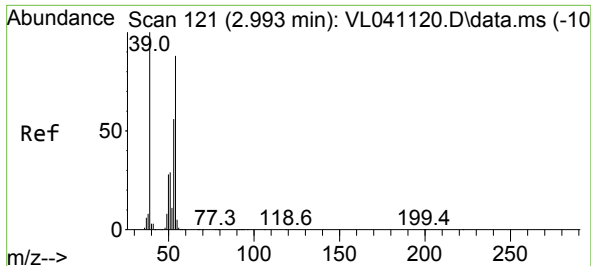
Tgt Ion: 45 Resp: 33777
Ion Ratio Lower Upper
45 100
46 36.9 14.6 58.2



#15
Acetone
Concen: 7.736 ppbv
RT: 3.478 min Scan# 272
Delta R.T. -0.003 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

Tgt Ion: 43 Resp: 1186032
Ion Ratio Lower Upper
43 100
58 37.2 21.7 32.5#

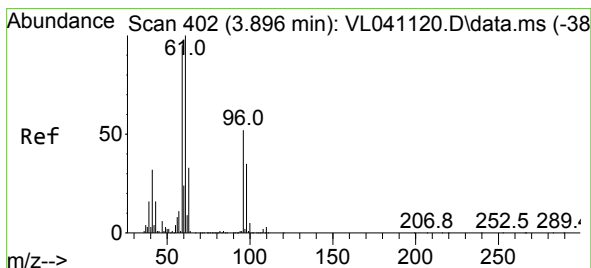
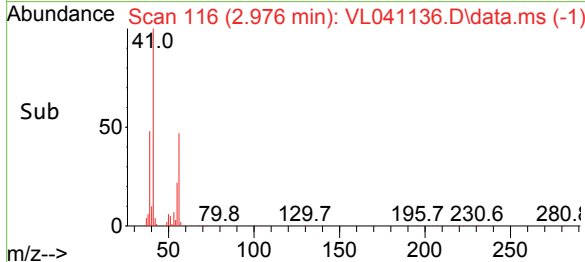
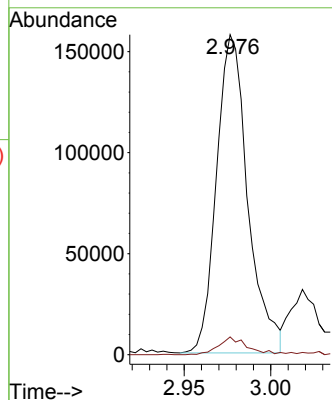
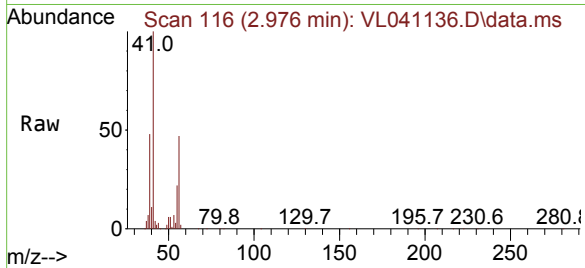




#16
1,3-Butadiene
Concen: 2.631 ppbv
RT: 2.976 min Scan# 116
Delta R.T. -0.016 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

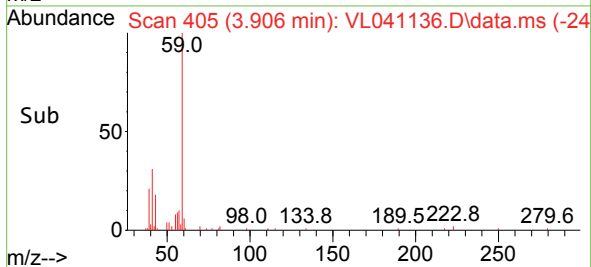
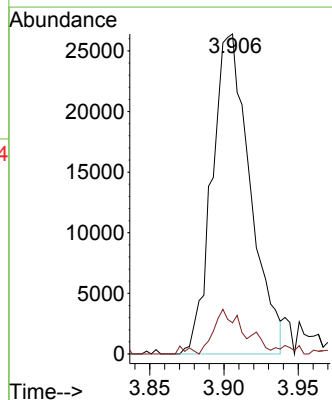
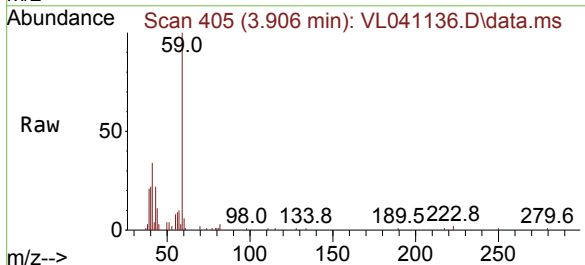
Instrument :
MSVOA_L
ClientSampleId :
SV3

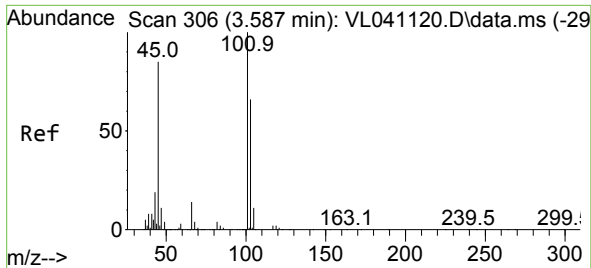
Tgt Ion: 39 Resp: 198006
Ion Ratio Lower Upper
39 100
54 5.9 64.0 96.0#



#17
tert-Butyl alcohol
Concen: 0.338 ppbv
RT: 3.906 min Scan# 405
Delta R.T. 0.010 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

Tgt Ion: 59 Resp: 47103
Ion Ratio Lower Upper
59 100
57 14.1 9.0 13.6#





#19

Isopropyl Alcohol

Concen: 0.101 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.013 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

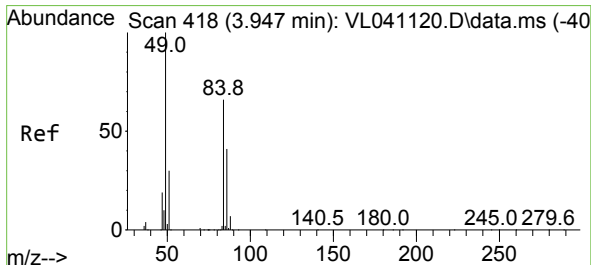
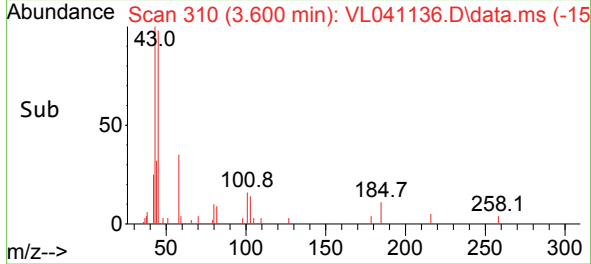
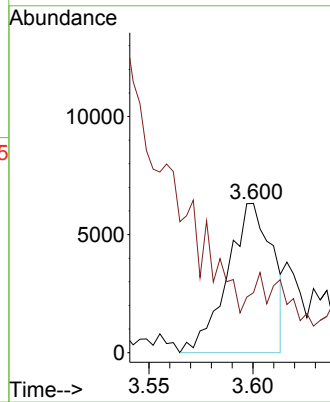
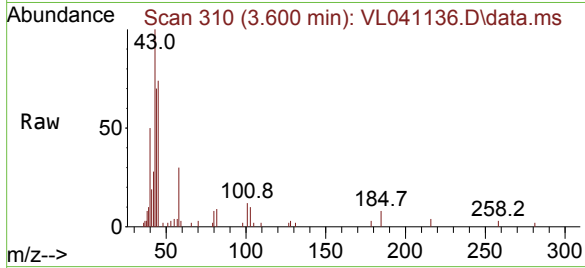
SV3

Tgt Ion: 45 Resp: 9500

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



#20

Methylene Chloride

Concen: 3.788 ppbv

RT: 3.947 min Scan# 418

Delta R.T. -0.000 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Tgt Ion: 84 Resp: 239509

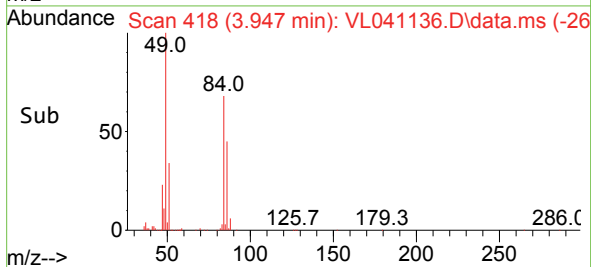
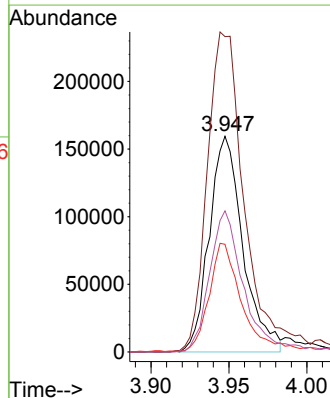
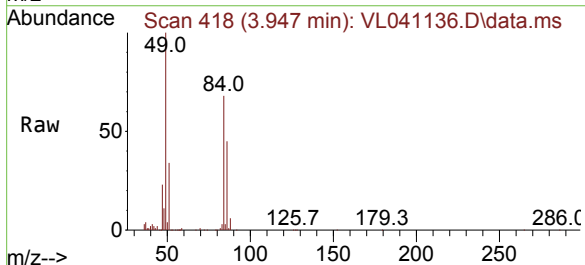
Ion Ratio Lower Upper

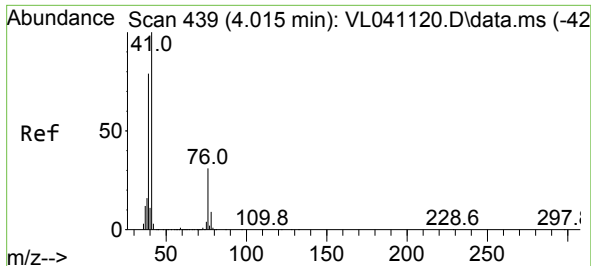
84 100

49 145.5 117.0 175.6

51 49.6 34.9 52.3

86 65.0 49.8 74.6





#21

Allyl Chloride

Concen: 0.047 ppbv

RT: 3.951 min Scan# 41

Delta R.T. -0.064 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

SV3

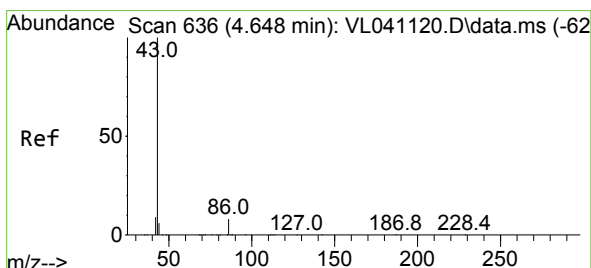
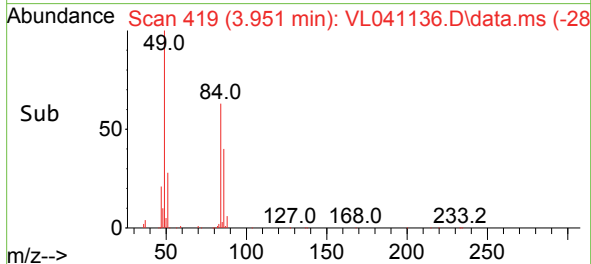
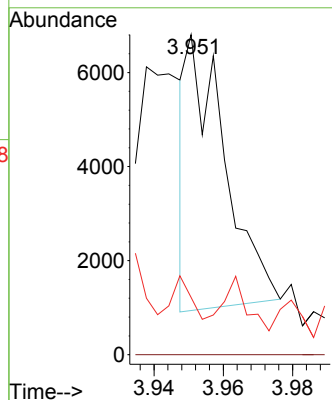
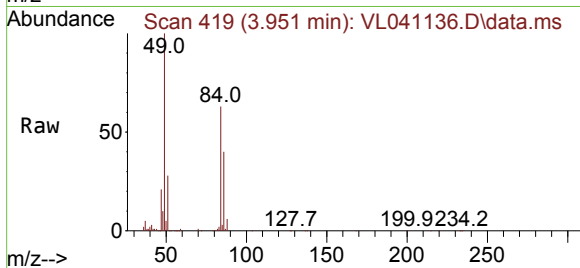
Tgt Ion: 41 Resp: 4408

Ion Ratio Lower Upper

41 100

76 4.3 25.5 38.3#

39 0.0 67.4 101.2#



#23

Vinyl Acetate

Concen: 0.238 ppbv

RT: 4.732 min Scan# 662

Delta R.T. 0.084 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Tgt Ion: 43 Resp: 37868

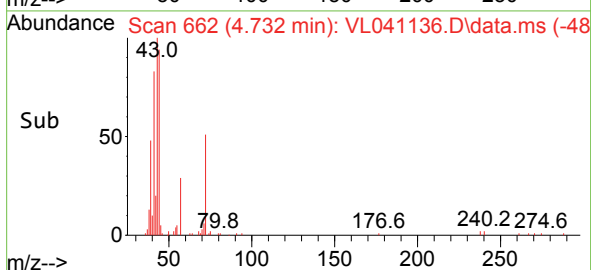
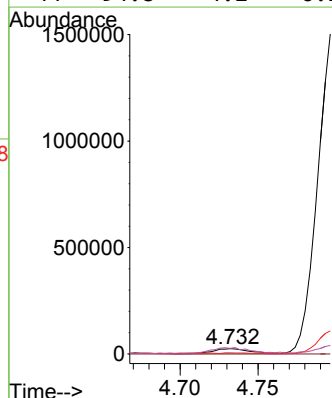
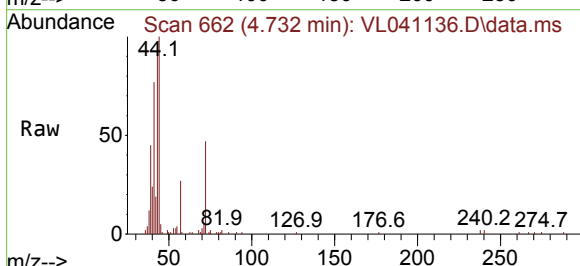
Ion Ratio Lower Upper

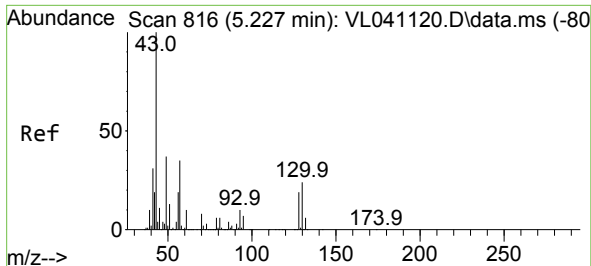
43 100

86 1.4 5.4 8.2#

42 17.8 8.0 12.0#

44 94.8 4.2 6.2#

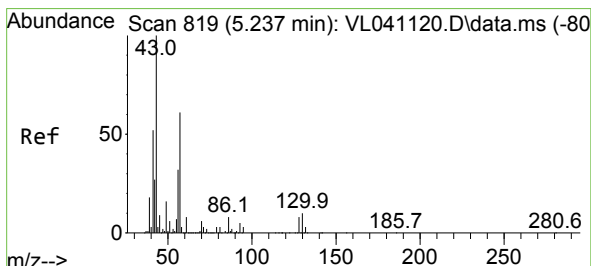
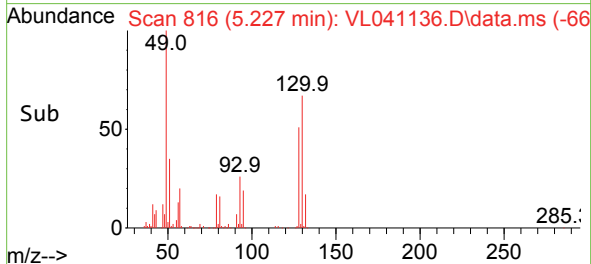
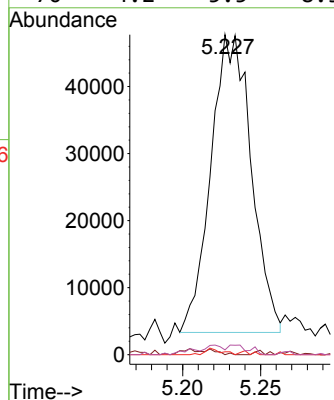
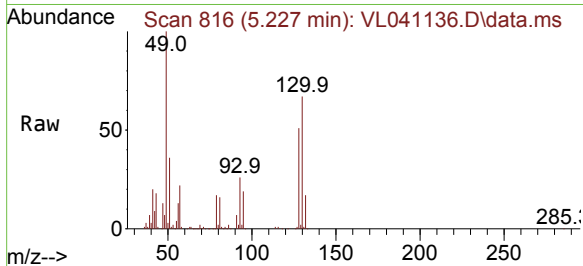




#25
Ethyl Acetate
Concen: 0.278 ppbv
RT: 5.227 min Scan# 816
Delta R.T. -0.000 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

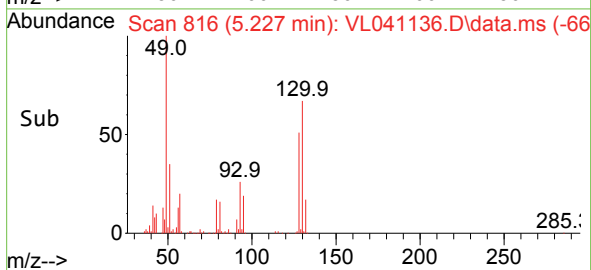
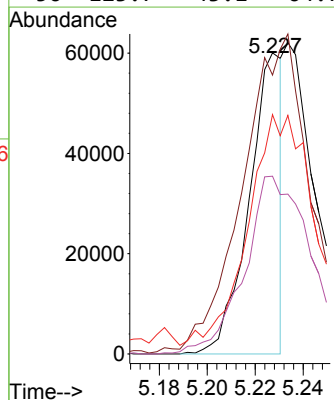
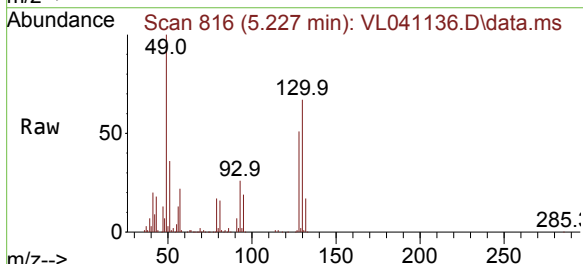
Instrument :
MSVOA_L
ClientSampleId :
SV3

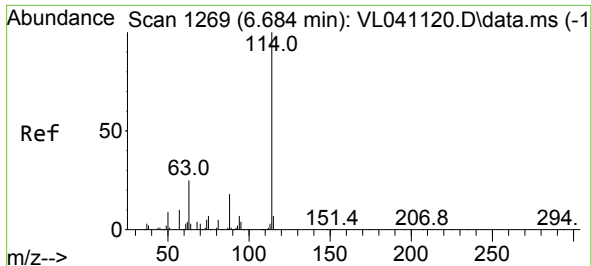
Tgt Ion: 43	Resp: 80020
Ion Ratio	Lower Upper
43 100	
45 1.4	8.2 12.2#
61 1.0	8.2 12.2#
70 4.2	5.5 8.3#



#26
Hexane
Concen: 0.443 ppbv
RT: 5.227 min Scan# 816
Delta R.T. -0.010 min
Lab File: VL041136.D
Acq: 4 Apr 2024 22:12

Tgt Ion: 57	Resp: 57217
Ion Ratio	Lower Upper
57 100	
41 0.0	73.8 110.6#
43 182.3	184.2 276.2#
56 123.7	43.1 64.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

SV3

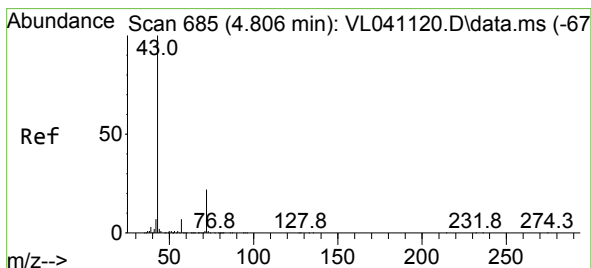
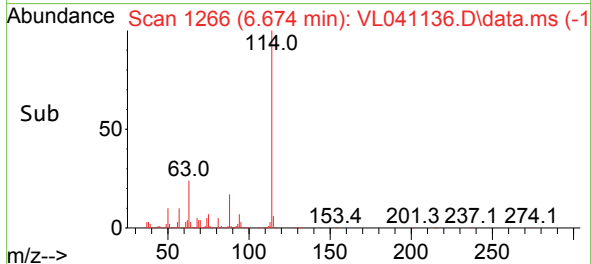
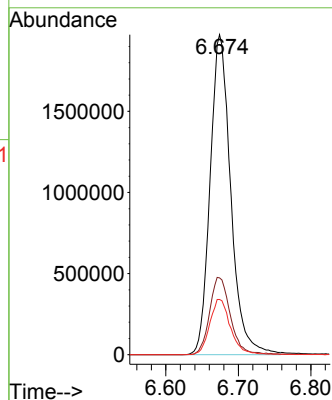
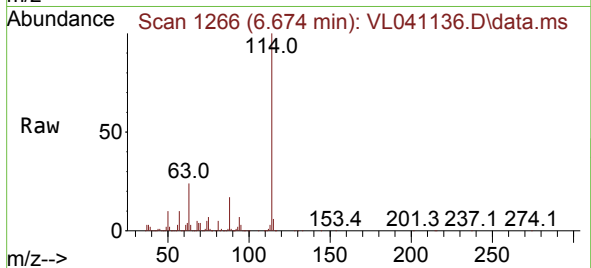
Tgt Ion:114 Resp: 3899770

Ion Ratio Lower Upper

114 100

63 24.7 21.0 31.6

88 17.6 14.6 22.0



#34

2-Butanone

Concen: 17.856 ppbv

RT: 4.800 min Scan# 683

Delta R.T. -0.006 min

Lab File: VL041136.D

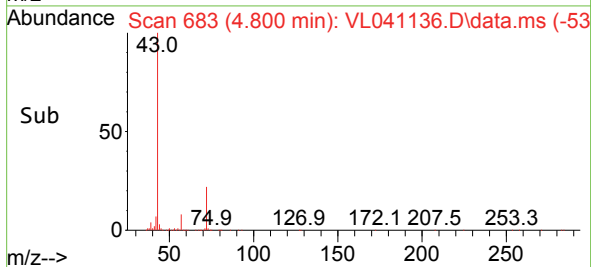
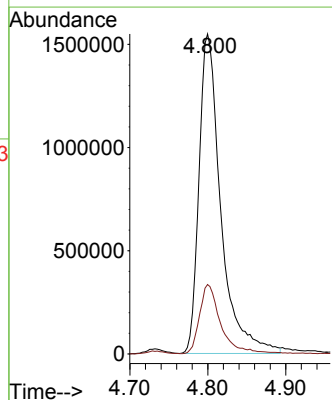
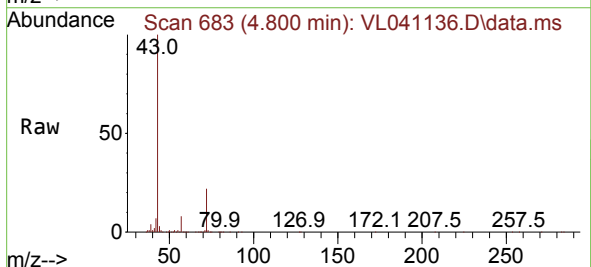
Acq: 4 Apr 2024 22:12

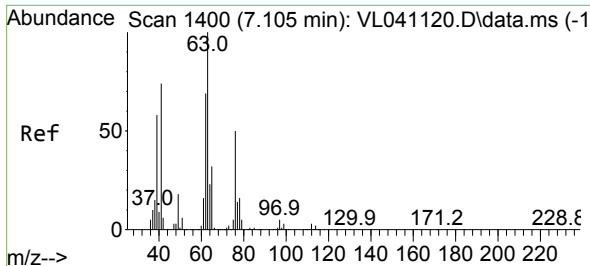
Tgt Ion: 43 Resp: 3007774

Ion Ratio Lower Upper

43 100

72 21.3 17.4 26.0





#39

1,2-Dichloropropane

Concen: 8.320 ppbv

RT: 6.671 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

SV3

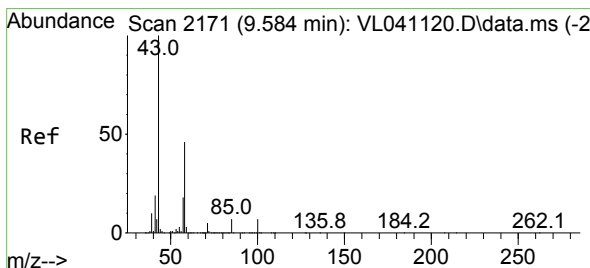
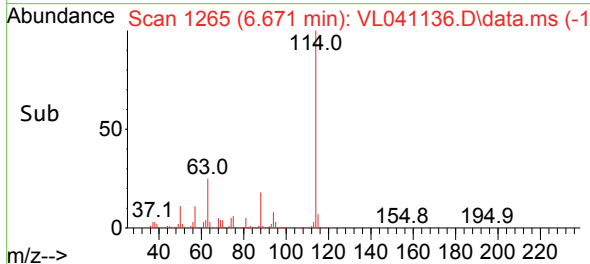
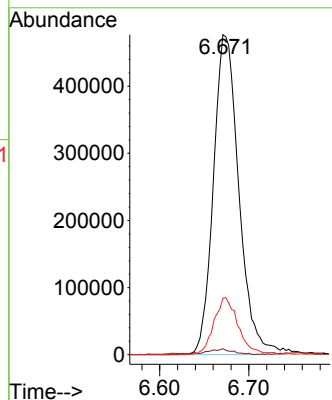
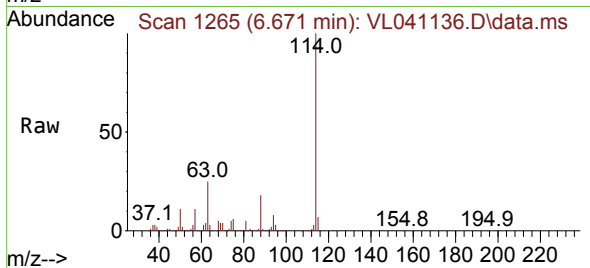
Tgt Ion: 63 Resp: 944722

Ion Ratio Lower Upper

63 100

41 1.5 62.2 93.4#

62 17.6 57.0 85.4#



#51

2-Hexanone

Concen: 1.115 ppbv

RT: 9.581 min Scan# 2170

Delta R.T. -0.003 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

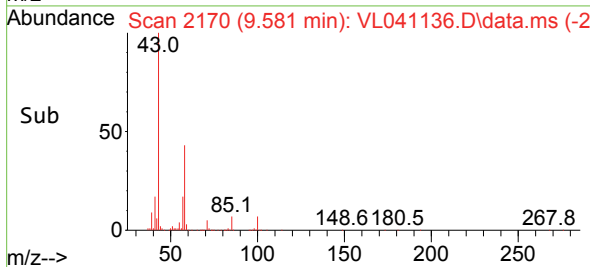
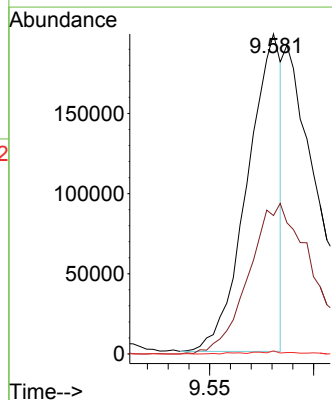
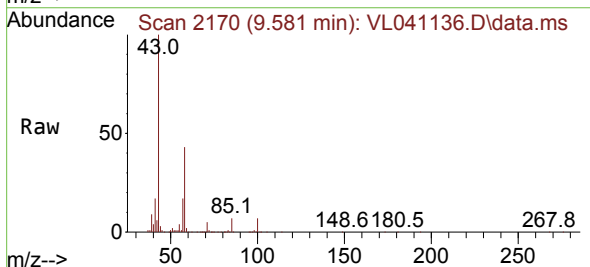
Tgt Ion: 43 Resp: 223530

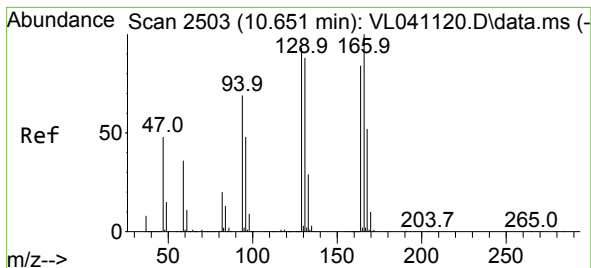
Ion Ratio Lower Upper

43 100

58 0.0 37.4 56.2#

98 1.1 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.032 ppbv

RT: 10.635 min Scan# 2498

Delta R.T. -0.016 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:164 Resp: 2955

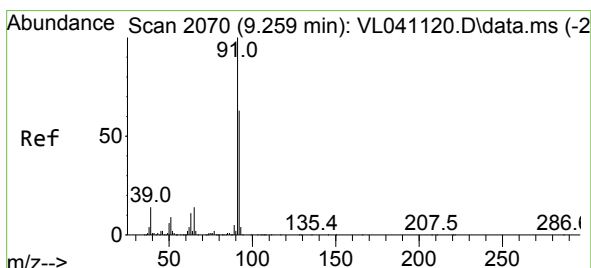
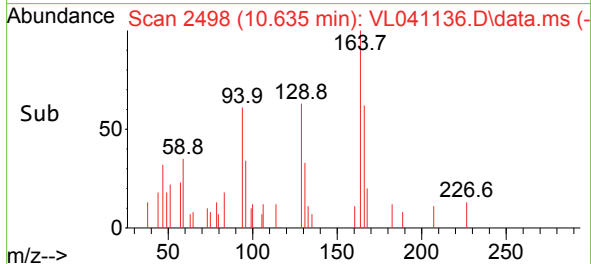
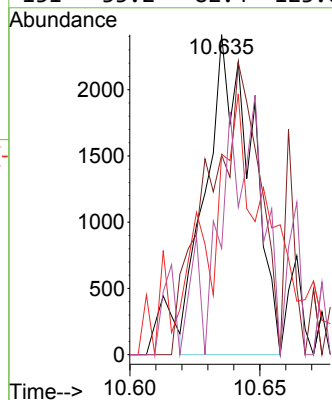
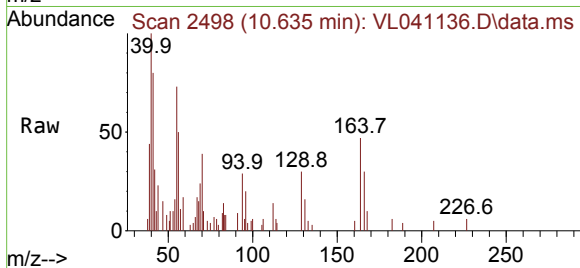
Ion Ratio Lower Upper

164 100

166 62.4 100.6 150.8#

129 48.5 87.2 130.8#

131 33.2 82.4 123.6#



#53

Toluene

Concen: 0.097 ppbv

RT: 9.249 min Scan# 2067

Delta R.T. -0.010 min

Lab File: VL041136.D

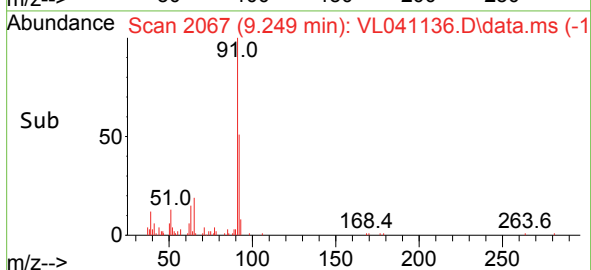
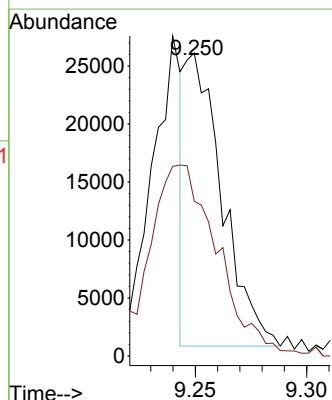
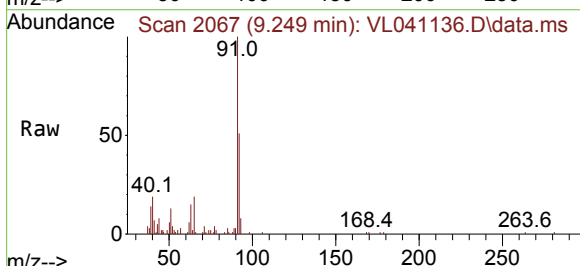
Acq: 4 Apr 2024 22:12

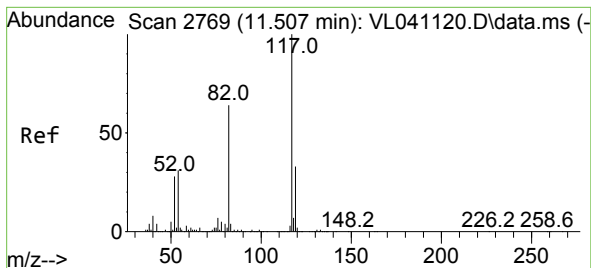
Tgt Ion: 91 Resp: 29267

Ion Ratio Lower Upper

91 100

92 0.0 48.9 73.3#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.494 min Scan# 21

Delta R.T. -0.013 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

SV3

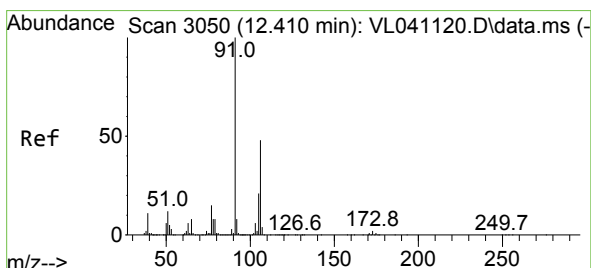
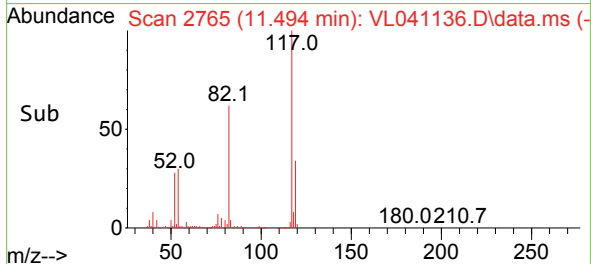
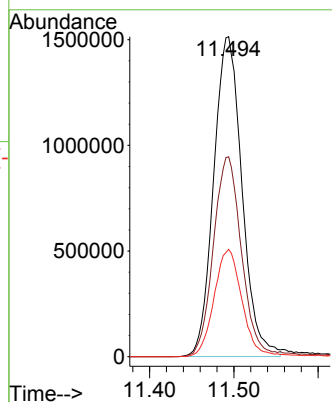
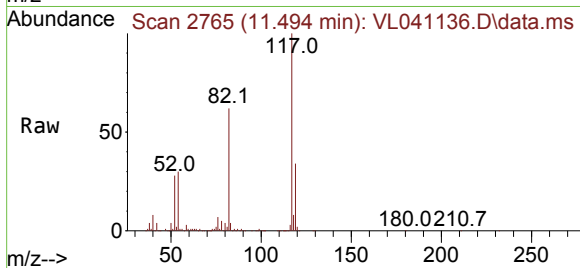
Tgt Ion:117 Resp: 3527534

Ion Ratio Lower Upper

117 100

82 64.5 51.4 77.2

119 33.9 23.7 35.5



#59

m/p-Xylene

Concen: 0.052 ppbv

RT: 12.400 min Scan# 3047

Delta R.T. -0.010 min

Lab File: VL041136.D

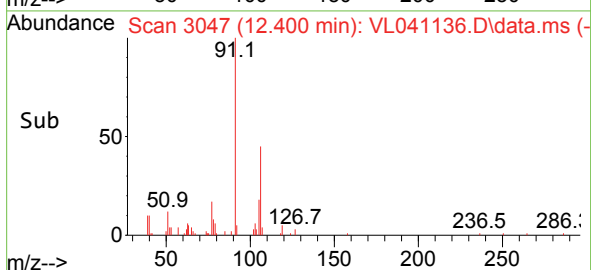
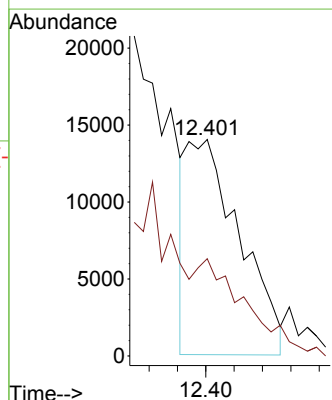
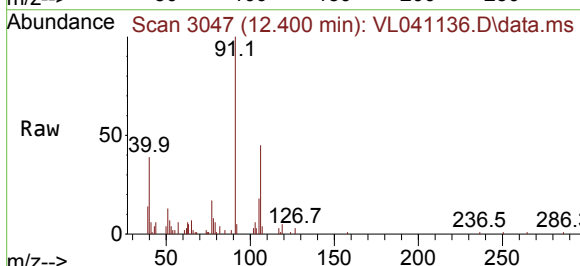
Acq: 4 Apr 2024 22:12

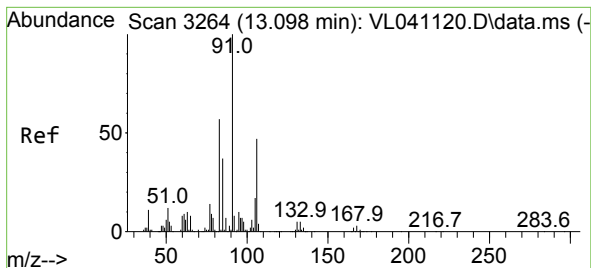
Tgt Ion: 91 Resp: 18232

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#





#60

o-Xylene

Concen: 0.052 ppbv

RT: 13.079 min Scan# 31

Delta R.T. -0.019 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

Instrument :

MSVOA_L

ClientSampleId :

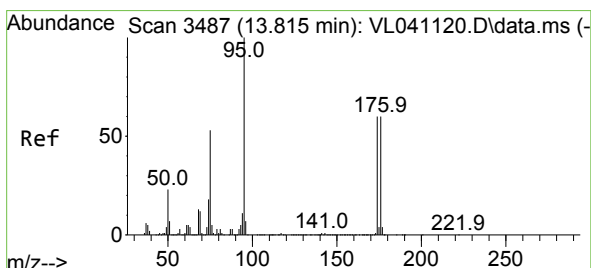
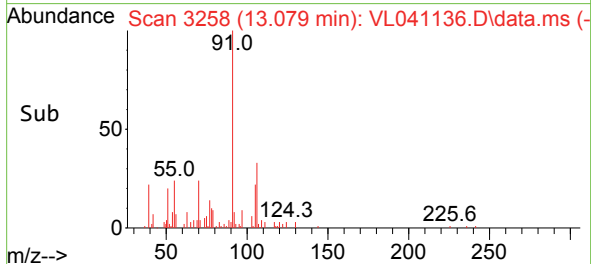
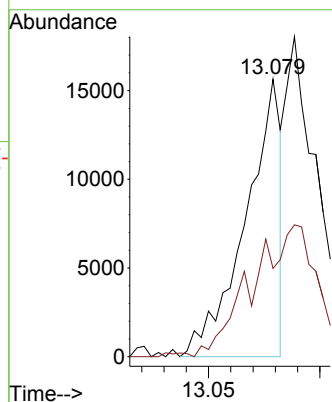
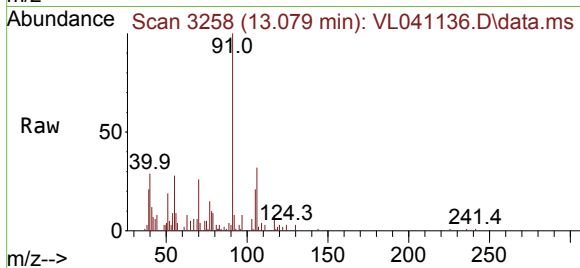
SV3

Tgt Ion: 91 Resp: 17235

Ion Ratio Lower Upper

91 100

106 0.0 22.4 67.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.501 ppbv

RT: 13.802 min Scan# 3483

Delta R.T. -0.013 min

Lab File: VL041136.D

Acq: 4 Apr 2024 22:12

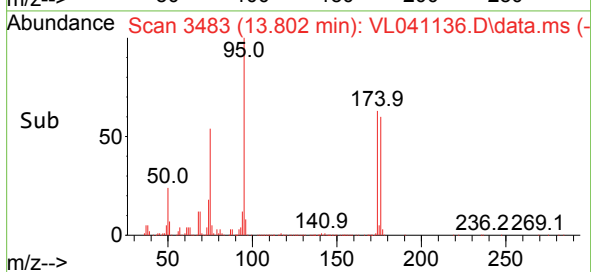
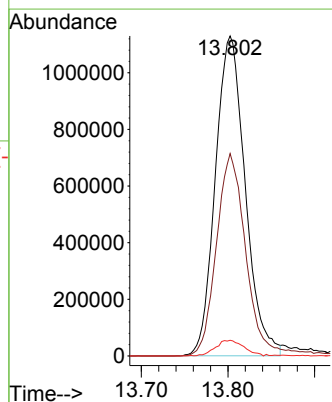
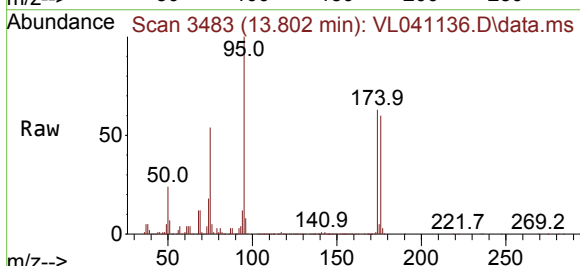
Tgt Ion: 95 Resp: 2705923

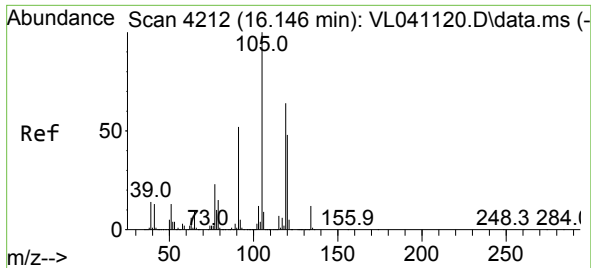
Ion Ratio Lower Upper

95 100

174 64.3 47.8 71.8

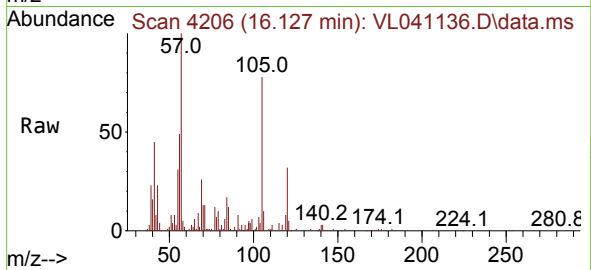
175 4.7 3.5 5.3





#74
 1,2,4-Trimethylbenzene
 Concen: 0.108 ppbv
 RT: 16.127 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL041136.D
 Acq: 4 Apr 2024 22:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion:	105	Resp:	40701
Ion	Ratio	Lower	Upper
105	100		
120	46.2	40.4	60.6
91	8.9	41.4	62.0#
77	11.6	19.0	28.4#

