

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
 Data File : VL041171.D
 Acq On : 25 Apr 2024 15:14
 Operator : SY/MD
 Sample : P2253-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Apr 26 03:13:49 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 26 03:09:28 2024
 Response via : Initial Calibration

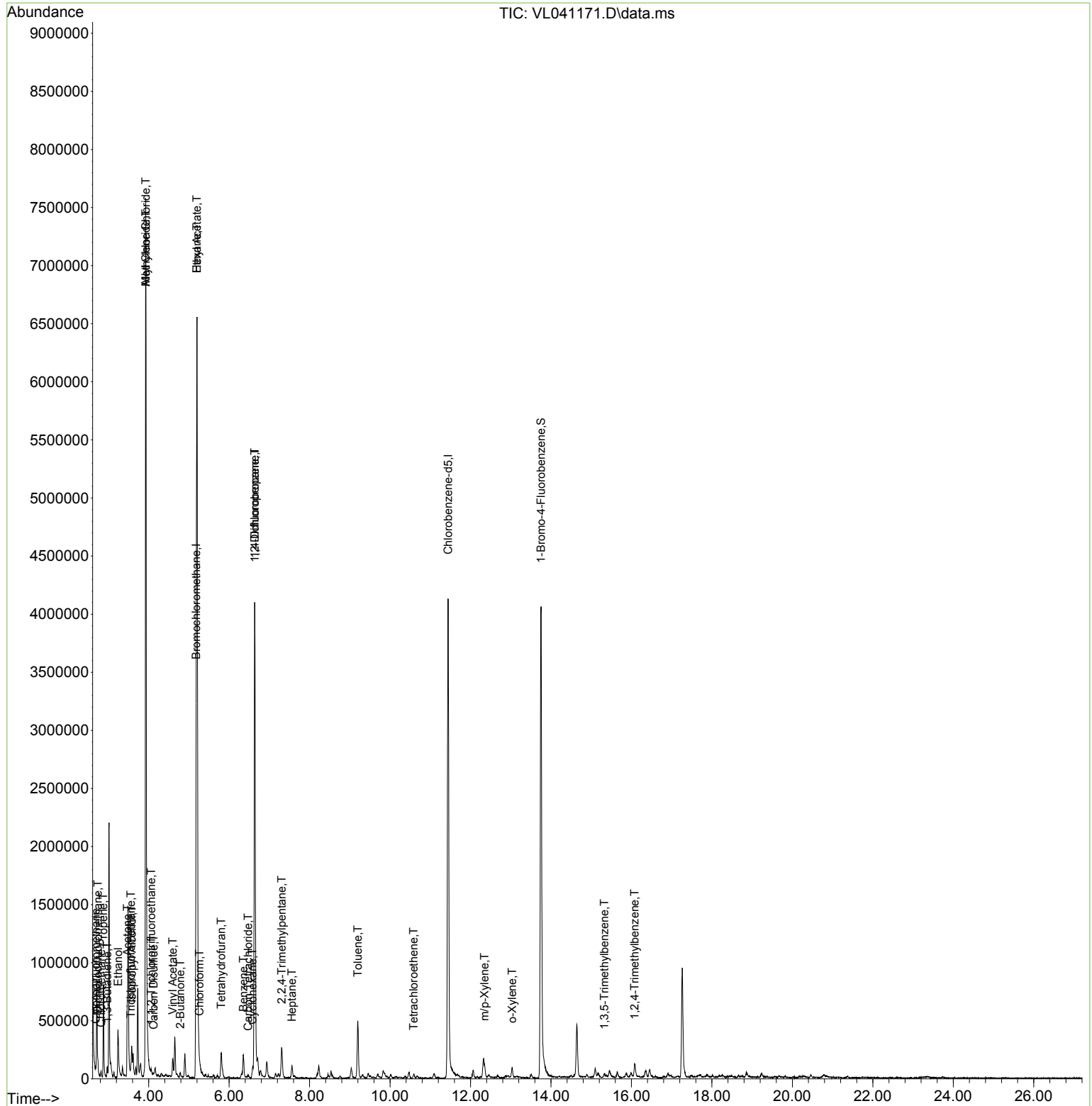
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.179	49	1206839	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3228870	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2848637	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	2184830	9.538	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	70714	0.343	ppbv	94
3) Chlorodifluoromethane	2.681	51	89115	0.479	ppbv #	84
4) Chloromethane	2.819	50	38855	0.552	ppbv	89
9) Propene	2.873	41	170419	2.882	ppbv	93
10) Heptane	7.558	43	26110	0.186	ppbv #	51
11) Trichlorofluoromethane	3.562	101	41115	0.220	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.063	101	6588	0.049	ppbv #	15
13) Ethanol	3.240	45	454174	32.292	ppbv	100
15) Acetone	3.468	43	489968	3.750	ppbv #	79
16) 1,3-Butadiene	2.970	39	21776	0.339	ppbv #	75
19) Isopropyl Alcohol	3.581	45	270854	3.412	ppbv	99
20) Methylene Chloride	3.928	84	2559013	47.481	ppbv	95
21) Allyl Chloride	3.928	41	97418	1.224	ppbv #	43
23) Vinyl Acetate	4.600	43	59919	0.449	ppbv #	1
25) Ethyl Acetate	5.201	43	1791698	7.301	ppbv #	77
26) Hexane	5.201	57	2561783	23.265	ppbv #	39
27) Carbon Disulfide	4.121	76	13814	0.102	ppbv #	50
29) Chloroform	5.266	83	5884	0.032	ppbv	89
30) Cyclohexane	6.577	84	10331	0.115	ppbv #	1
34) 2-Butanone	4.787	43	39207	0.287	ppbv	92
35) Carbon Tetrachloride	6.471	117	6036	0.033	ppbv	97
36) Benzene	6.352	78	161310	0.680	ppbv #	89
39) 1,2-Dichloropropane	6.639	63	768269	8.217	ppbv #	25
41) Tetrahydrofuran	5.803	42	29227	0.321	ppbv #	37
44) 2,2,4-Trimethylpentane	7.307	57	226559	0.577	ppbv	92
52) Tetrachloroethene	10.587	164	2734	0.036	ppbv #	26
53) Toluene	9.198	91	320514	1.284	ppbv	100
59) m/p-Xylene	12.349	91	45394	0.161	ppbv #	32
60) o-Xylene	13.034	91	36190	0.136	ppbv #	43
73) 1,3,5-Trimethylbenzene	15.330	105	10323	0.039	ppbv	88
74) 1,2,4-Trimethylbenzene	16.079	105	45725	0.152	ppbv #	68

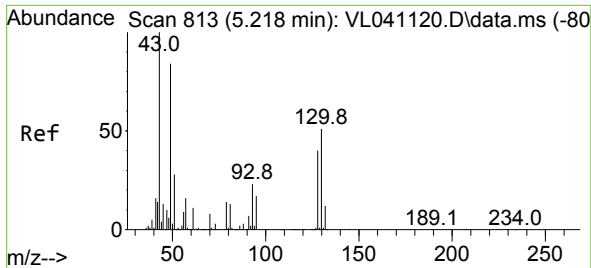
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\  
Data File : VL041171.D  
Acq On    : 25 Apr 2024 15:14  
Operator  : SY/MD  
Sample    : P2253-03  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1 Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Apr 26 03:13:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 26 03:09:28 2024
Response via : Initial Calibration

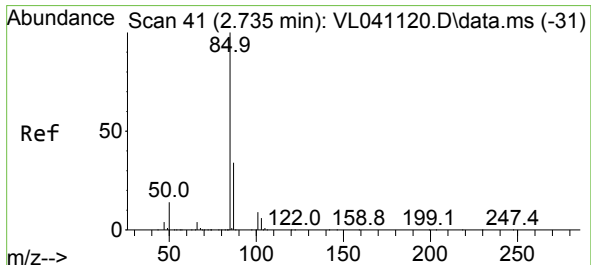
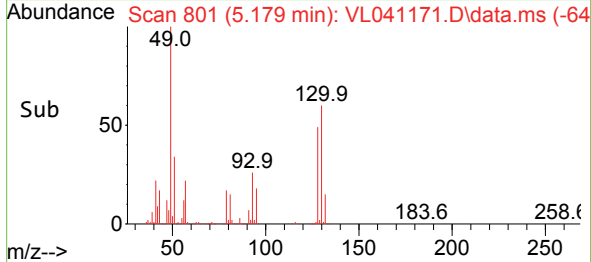
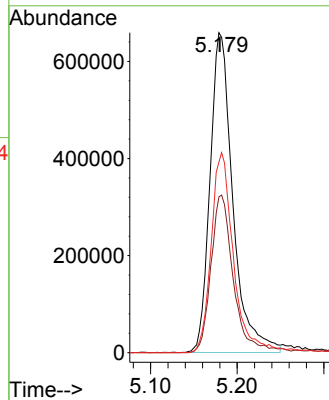
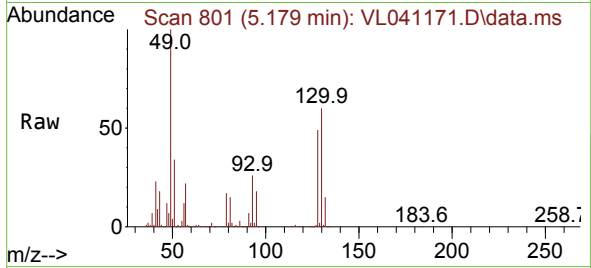




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041171.D
 Acq: 25 Apr 2024 15:14

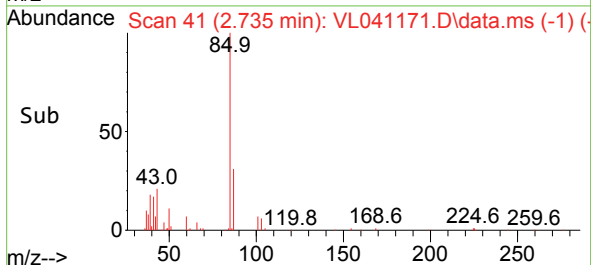
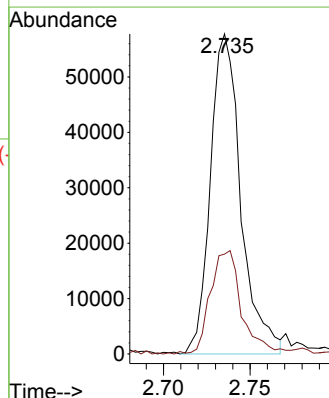
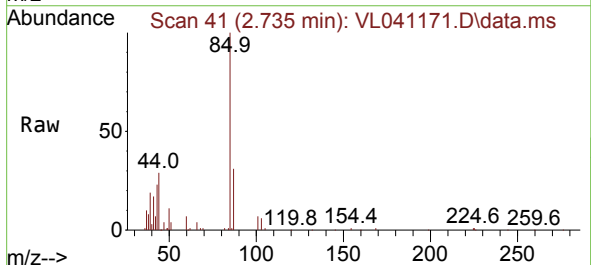
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

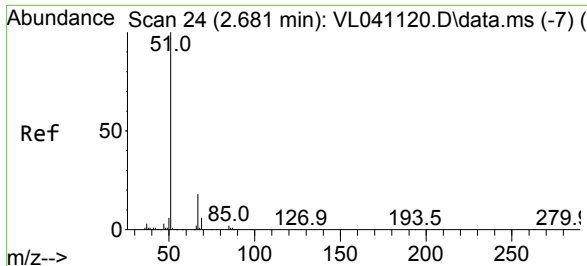
Tgt Ion: 49 Resp: 1206839
 Ion Ratio Lower Upper
 49 100
 128 49.5 23.6 71.0
 130 62.5 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.343 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL041171.D
 Acq: 25 Apr 2024 15:14

Tgt Ion: 85 Resp: 70714
 Ion Ratio Lower Upper
 85 100
 87 30.5 27.0 40.6

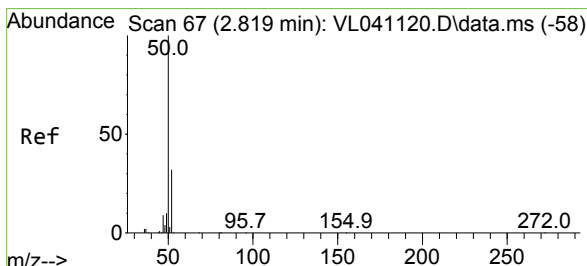
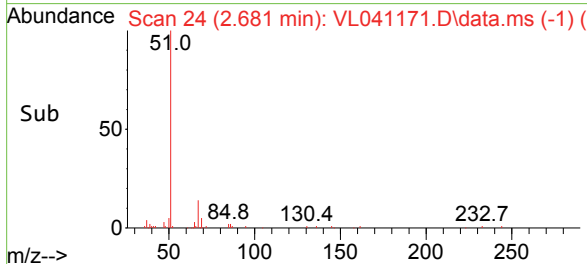
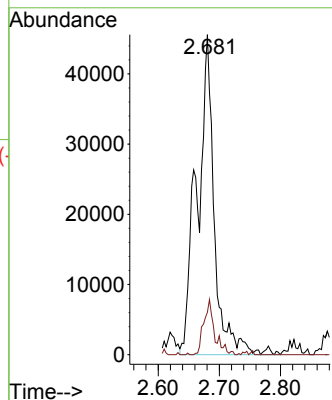
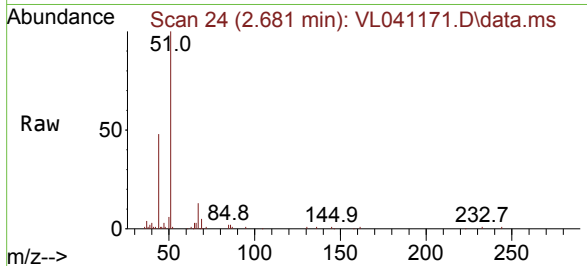




#3
Chlorodifluoromethane
Concen: 0.479 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

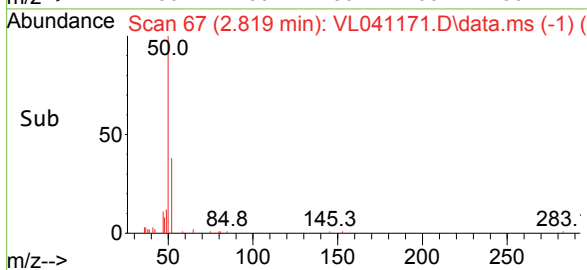
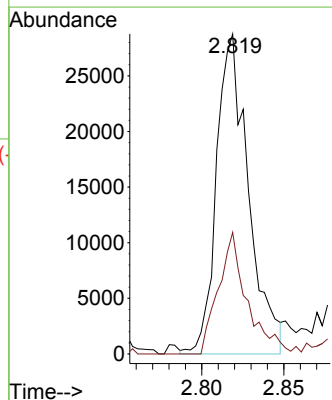
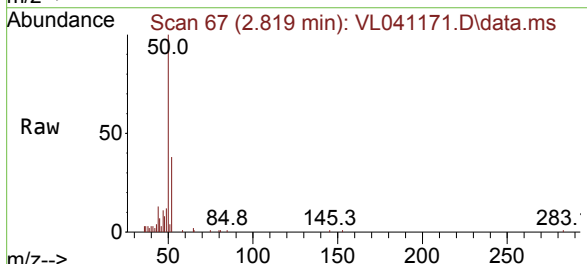
Instrument :
MSVOA_L
ClientSampleId :
IA1

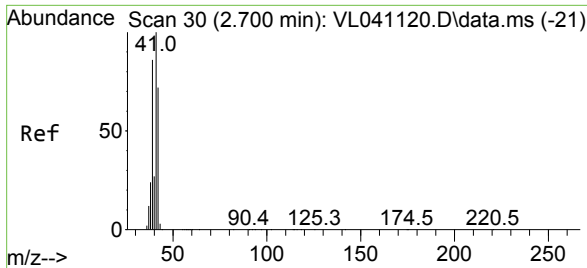
Tgt Ion: 51 Resp: 89115
Ion Ratio Lower Upper
51 100
67 11.4 14.9 22.3#



#4
Chloromethane
Concen: 0.552 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.010 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 50 Resp: 38855
Ion Ratio Lower Upper
50 100
52 38.7 26.0 39.0

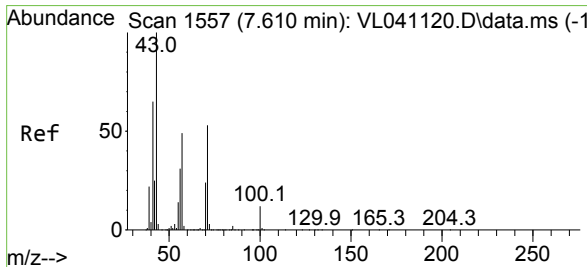
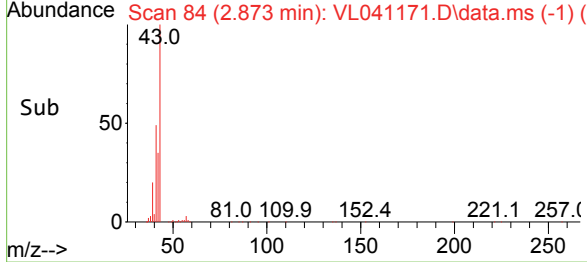
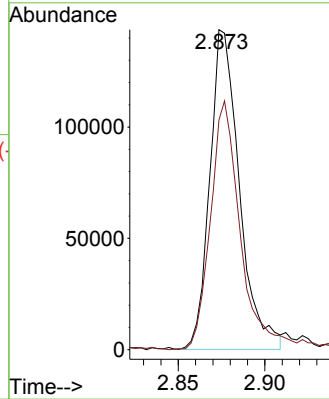
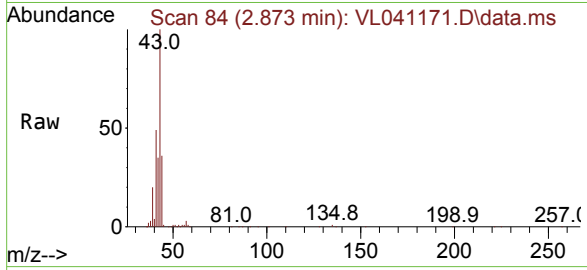




#9
Propene
Concen: 2.882 ppbv
RT: 2.873 min Scan# 84
Delta R.T. 0.180 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

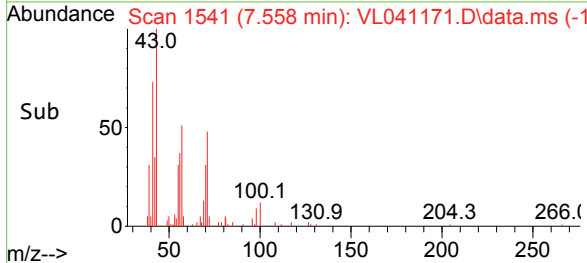
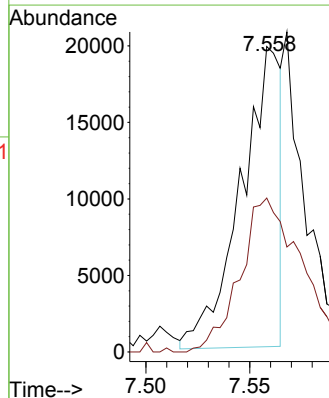
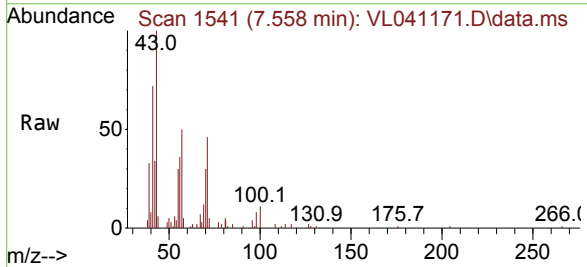
Instrument :
MSVOA_L
ClientSampleId :
IA1

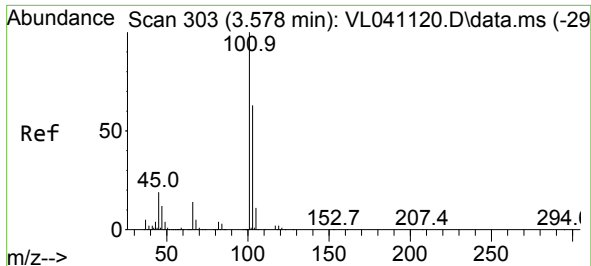
Tgt Ion: 41 Resp: 170419
Ion Ratio Lower Upper
41 100
42 81.4 60.1 90.1



#10
Heptane
Concen: 0.186 ppbv
RT: 7.558 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 43 Resp: 26110
Ion Ratio Lower Upper
43 100
57 83.6 39.9 59.9

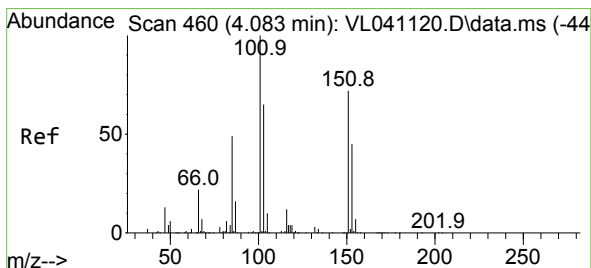
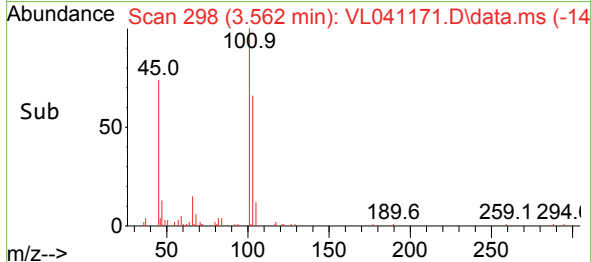
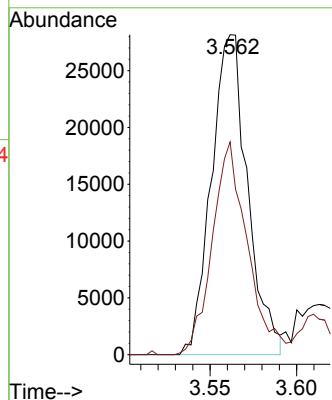
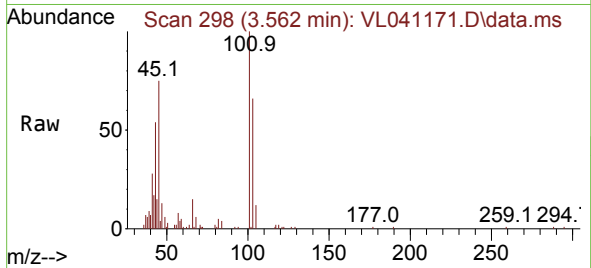




#11
 Trichlorofluoromethane
 Concen: 0.220 ppbv
 RT: 3.562 min Scan# 298
 Delta R.T. 0.006 min
 Lab File: VL041171.D
 Acq: 25 Apr 2024 15:14

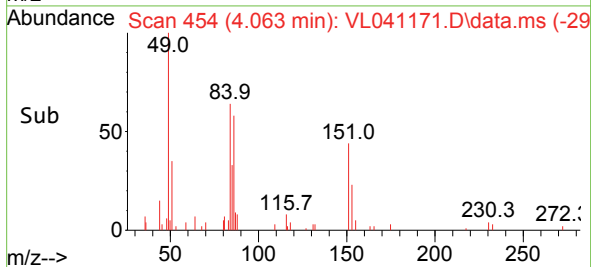
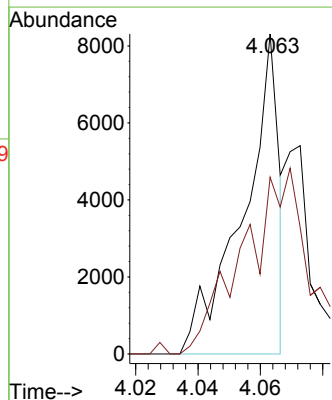
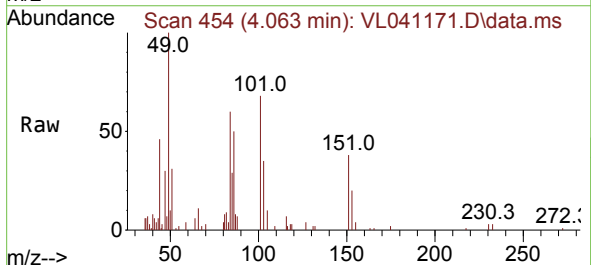
Instrument :
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 ClientSampleId :
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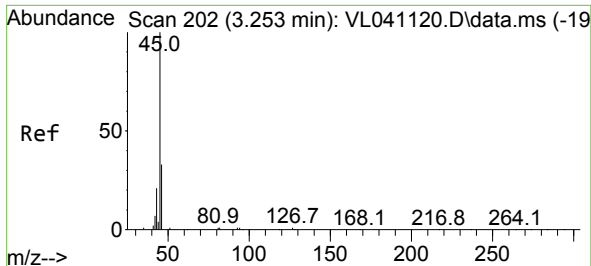
Tgt Ion:101 Resp: 41115
 Ion Ratio Lower Upper
 101 100
 103 65.9 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.049 ppbv
 RT: 4.063 min Scan# 454
 Delta R.T. 0.006 min
 Lab File: VL041171.D
 Acq: 25 Apr 2024 15:14

Tgt Ion:101 Resp: 6588
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.2 84.4#

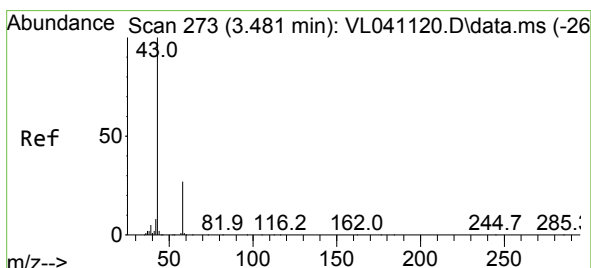
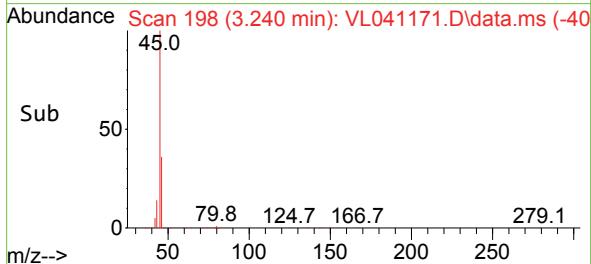
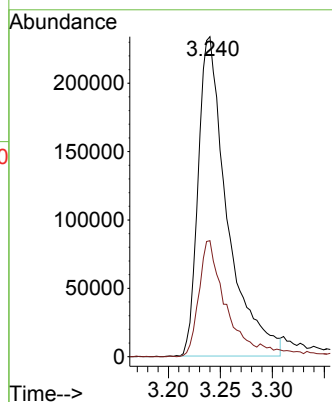
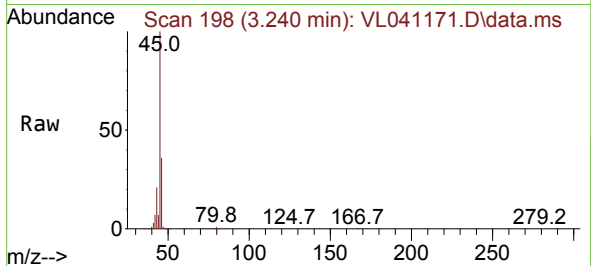




#13
Ethanol
Concen: 32.292 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

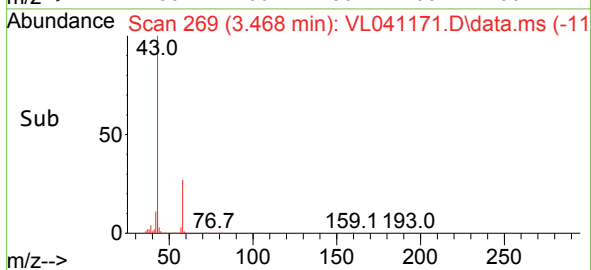
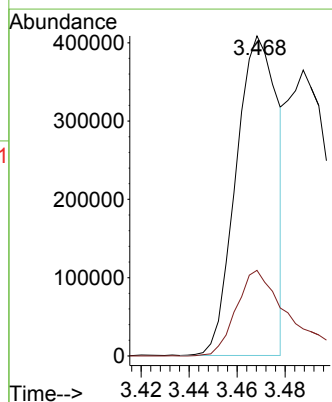
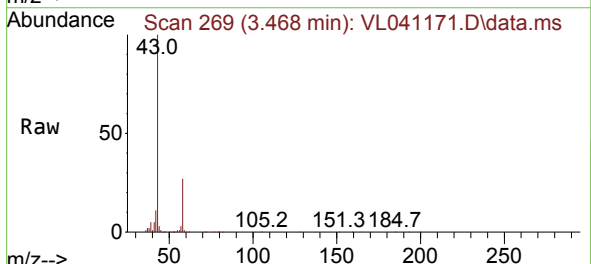
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ClientSampleId :
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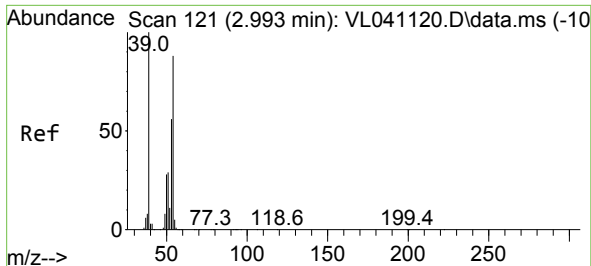
Tgt Ion: 45 Resp: 454174
Ion Ratio Lower Upper
45 100
46 37.7 15.0 59.8



#15
Acetone
Concen: 3.750 ppbv
RT: 3.468 min Scan# 269
Delta R.T. 0.010 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 43 Resp: 489968
Ion Ratio Lower Upper
43 100
58 37.0 21.1 31.7#





#16

1,3-Butadiene

Concen: 0.339 ppbv

RT: 2.970 min Scan# 114

Delta R.T. -0.013 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

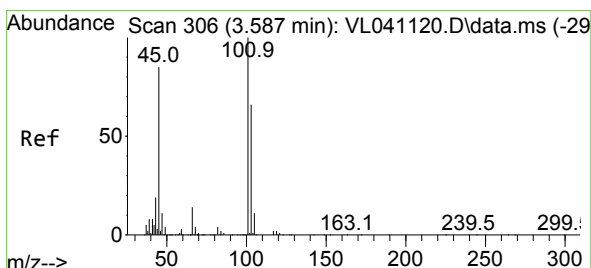
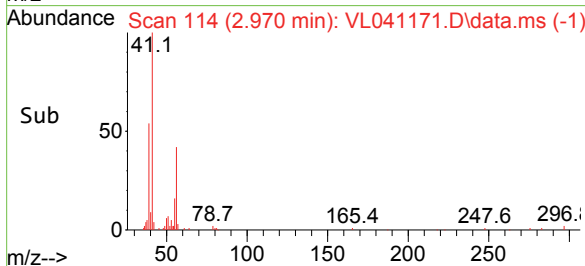
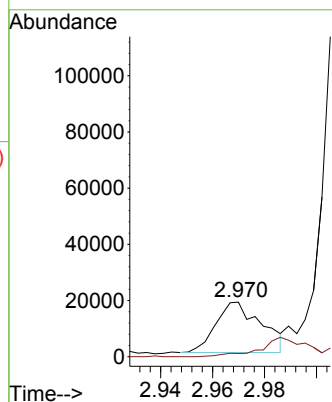
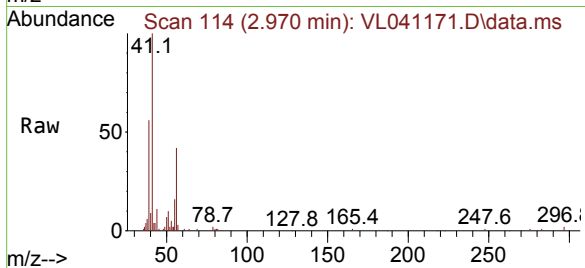
IA1

Tgt Ion: 39 Resp: 21776

Ion Ratio Lower Upper

39 100

54 57.8 63.5 95.3#



#19

Isopropyl Alcohol

Concen: 3.412 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.013 min

Lab File: VL041171.D

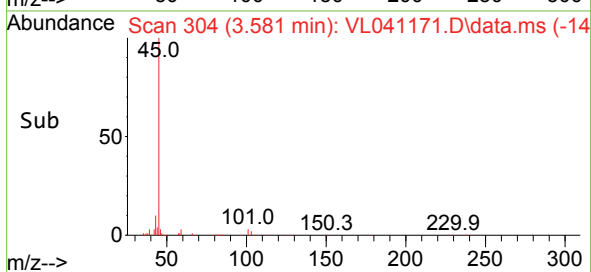
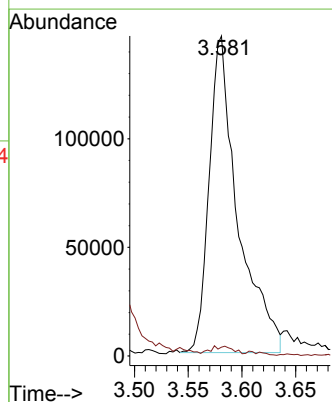
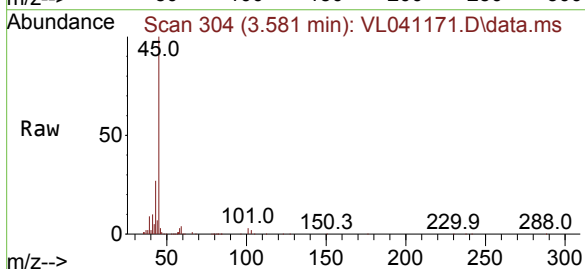
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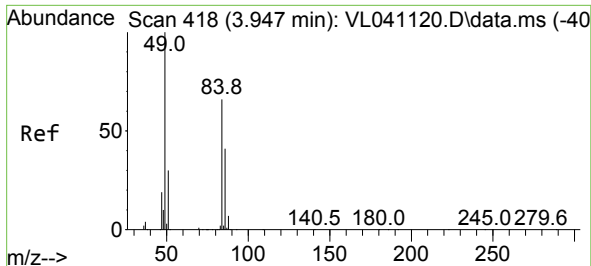
Tgt Ion: 45 Resp: 270854

Ion Ratio Lower Upper

45 100

58 3.7 2.8 4.2





#20

Methylene Chloride

Concen: 47.481 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.003 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 84 Resp: 2559013

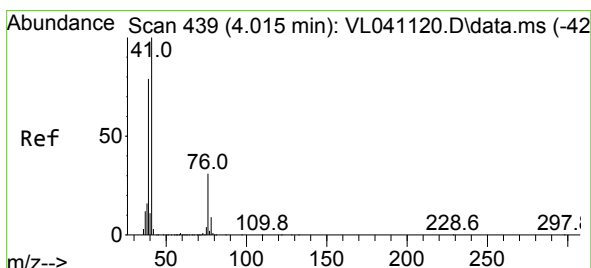
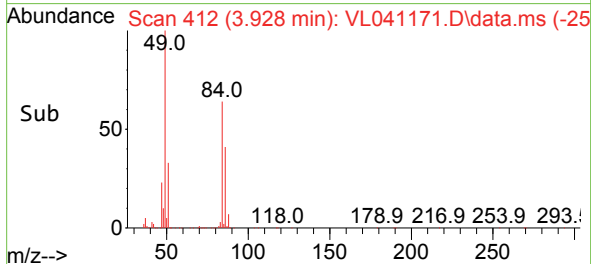
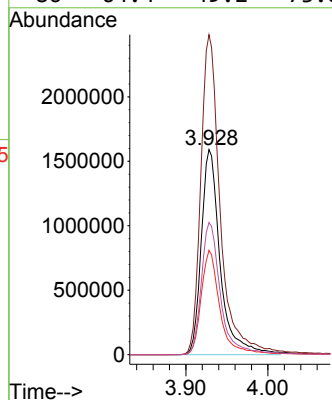
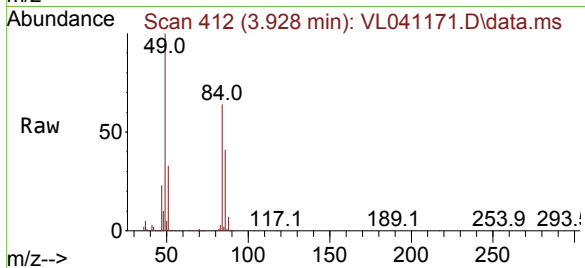
Ion Ratio Lower Upper

84 100

49 155.9 120.7 181.1

51 50.7 36.6 54.8

86 64.4 49.2 73.8



#21

Allyl Chloride

Concen: 1.224 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.058 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

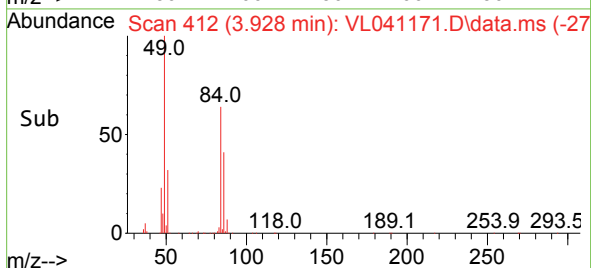
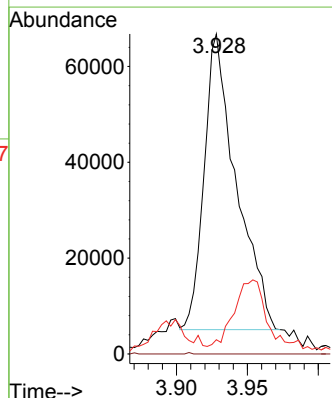
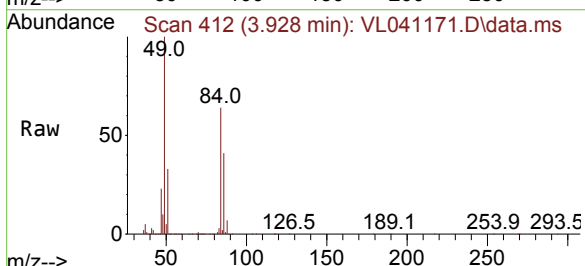
Tgt Ion: 41 Resp: 97418

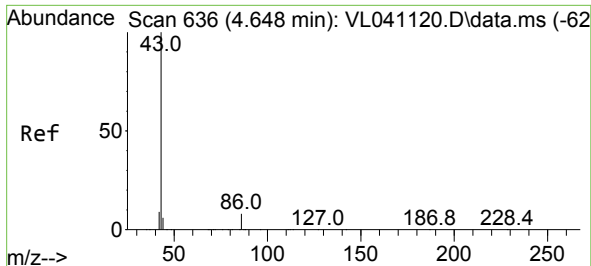
Ion Ratio Lower Upper

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76 0.0 25.7 38.5#

39 31.0 65.7 98.5#

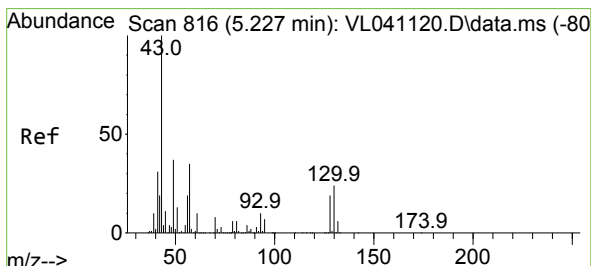
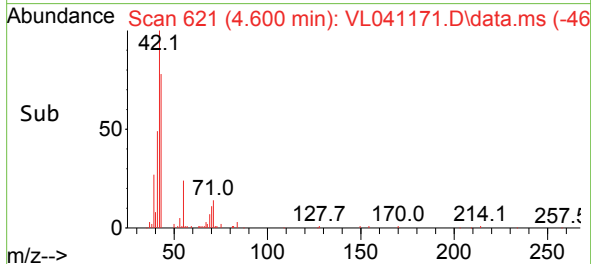
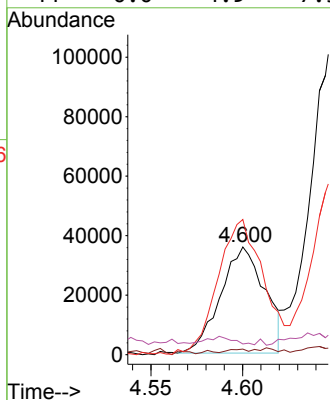
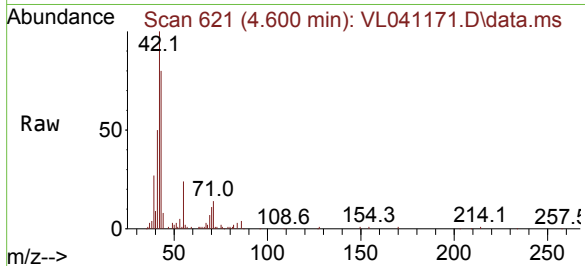




#23
Vinyl Acetate
Concen: 0.449 ppbv
RT: 4.600 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

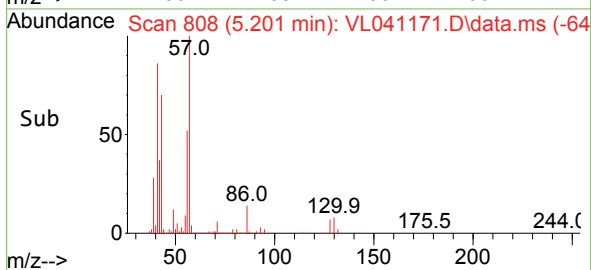
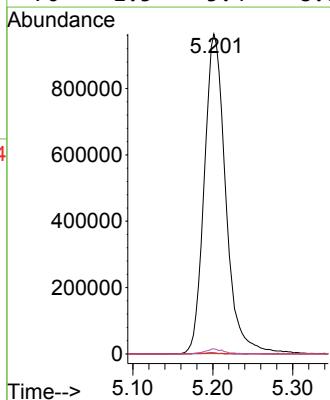
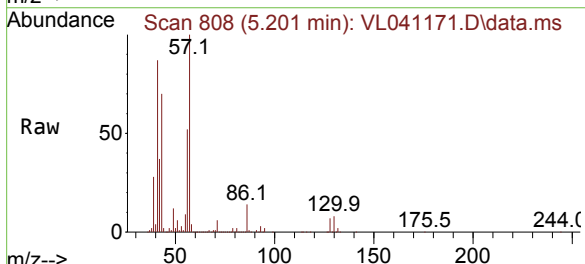
Instrument :
MSVOA_L
ClientSampleId :
IA1

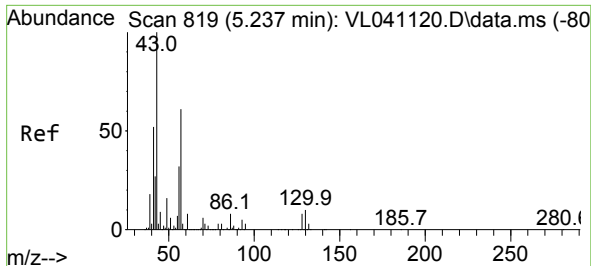
Tgt Ion:	43	Resp:	59919
Ion	Ratio	Lower	Upper
43	100		
86	2.3	6.2	9.4#
42	122.6	7.7	11.5#
44	0.0	4.9	7.3#



#25
Ethyl Acetate
Concen: 7.301 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.013 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion:	43	Resp:	1791698
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.0	12.0#
61	0.3	7.8	11.6#
70	1.5	5.4	8.0#



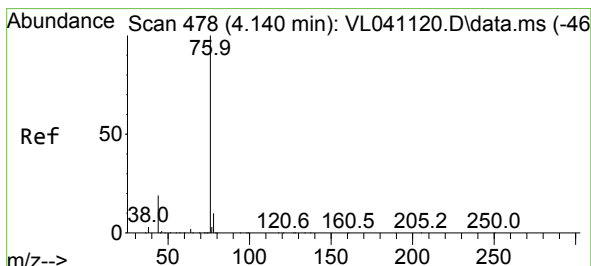
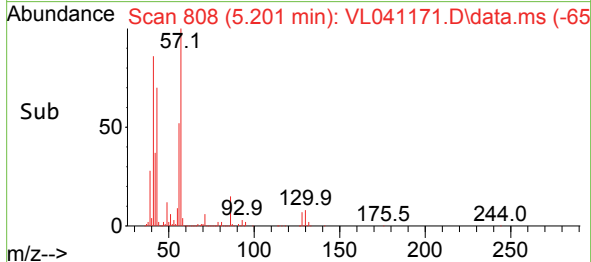
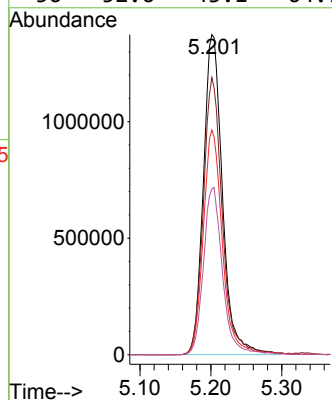
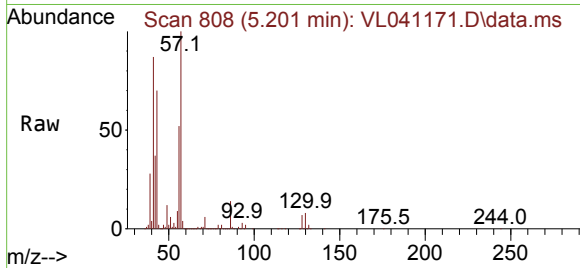


#26
Hexane
Concen: 23.265 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 2561783

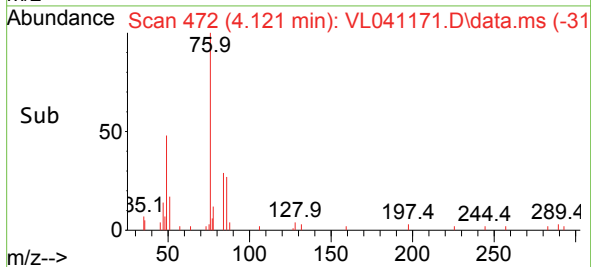
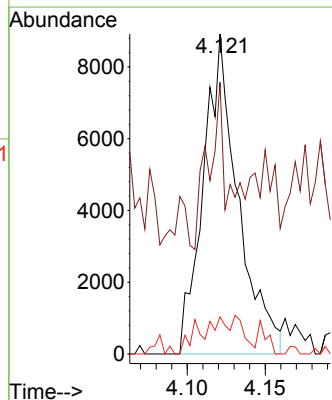
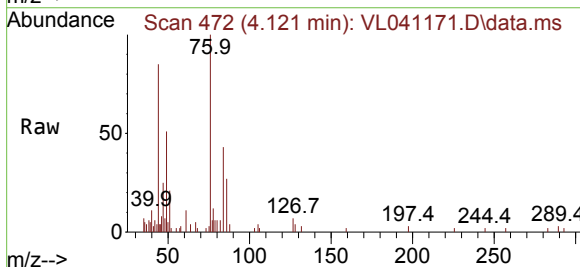
Ion	Ratio	Lower	Upper
57	100		
41	87.1	73.8	110.8
43	70.6	186.2	279.2#
56	52.6	43.1	64.7

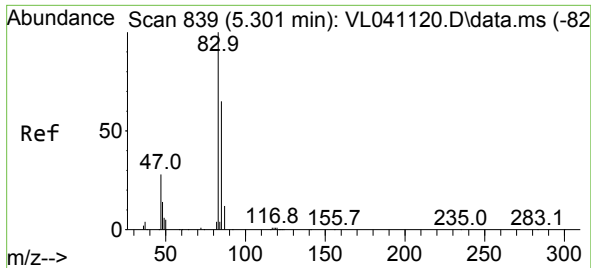


#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 76 Resp: 13814

Ion	Ratio	Lower	Upper
76	100		
44	50.4	16.3	24.5#
78	17.0	7.9	11.9#

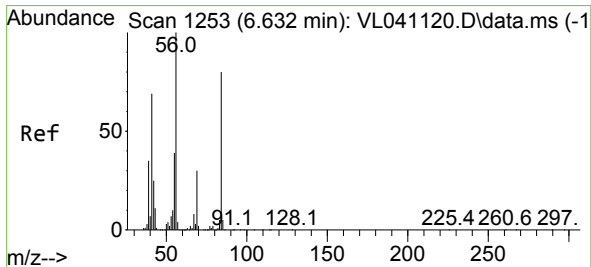
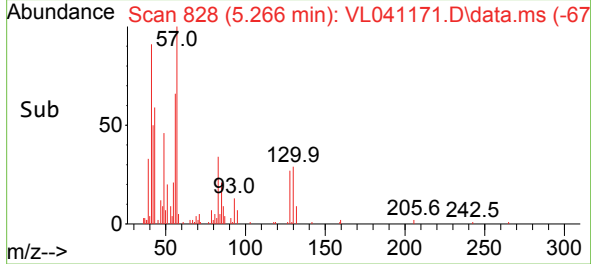
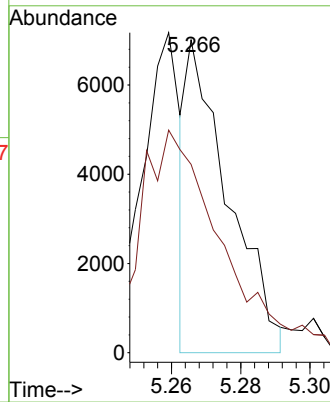
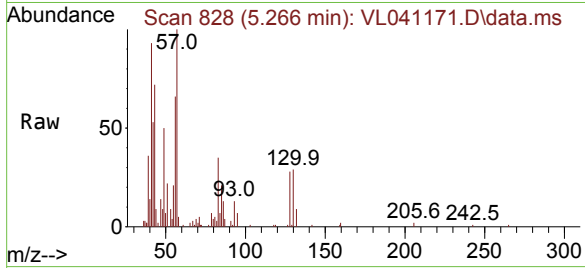




#29
Chloroform
Concen: 0.032 ppbv
RT: 5.266 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

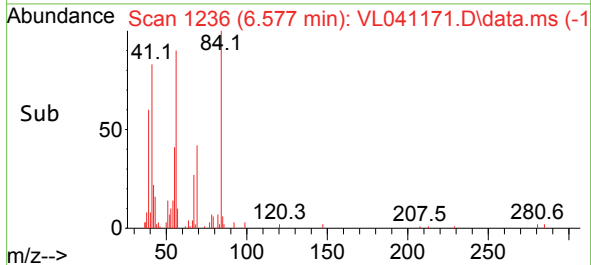
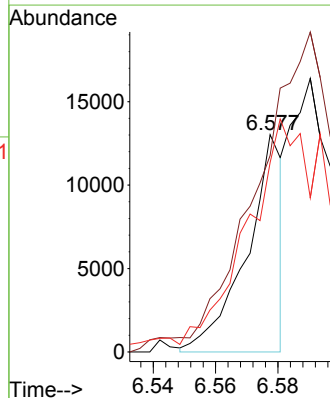
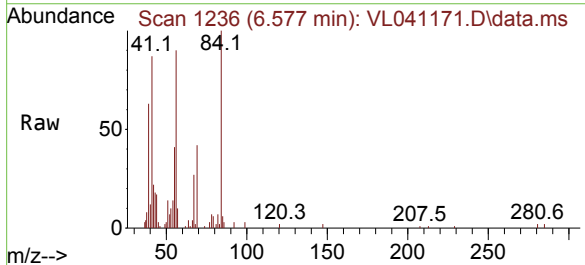
Instrument :
MSVOA_L
ClientSampleId :
IA1

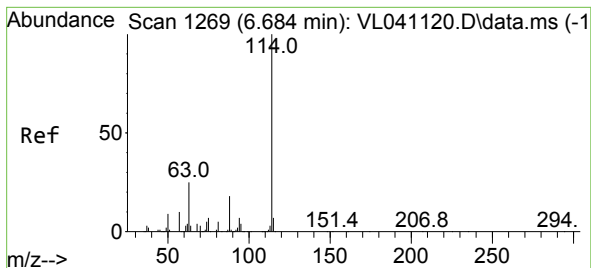
Tgt Ion: 83 Resp: 5884
Ion Ratio Lower Upper
83 100
85 55.6 51.5 77.3



#30
Cyclohexane
Concen: 0.115 ppbv
RT: 6.577 min Scan# 1236
Delta R.T. -0.003 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 84 Resp: 10331
Ion Ratio Lower Upper
84 100
56 0.0 111.9 167.9#
41 291.8 71.0 106.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

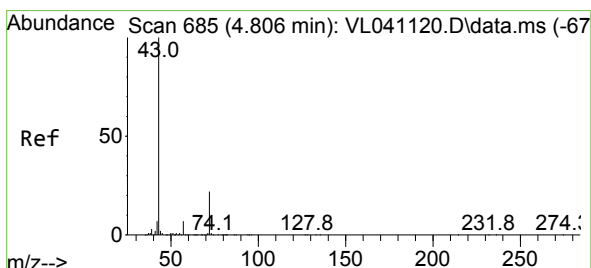
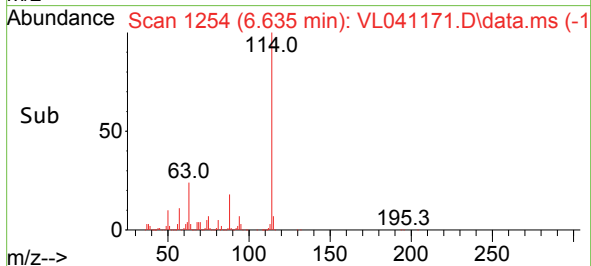
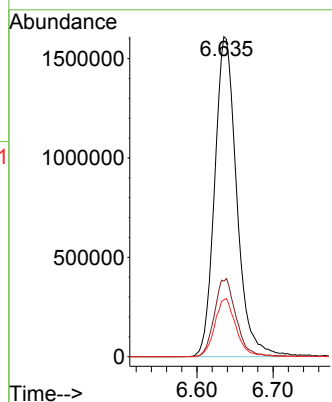
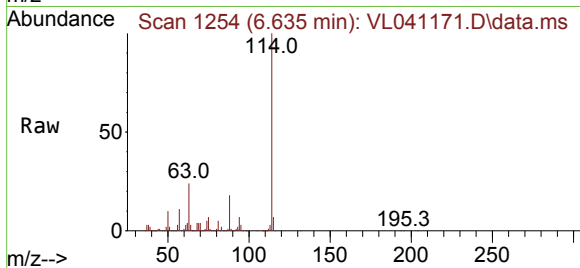
Tgt Ion:114 Resp: 3228870

Ion Ratio Lower Upper

114 100

63 24.4 20.9 31.3

88 17.7 14.5 21.7



#34

2-Butanone

Concen: 0.287 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.016 min

Lab File: VL041171.D

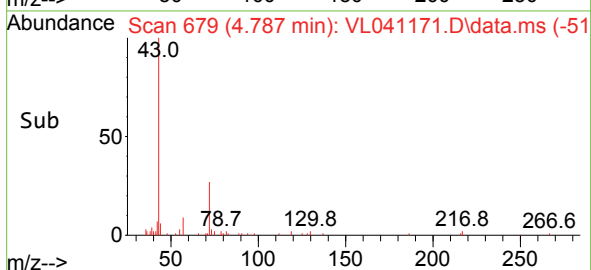
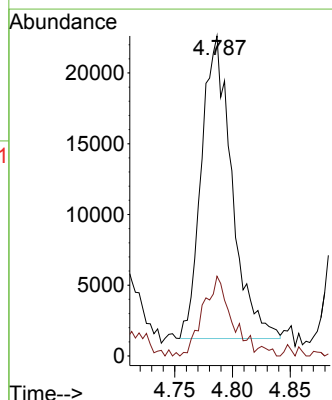
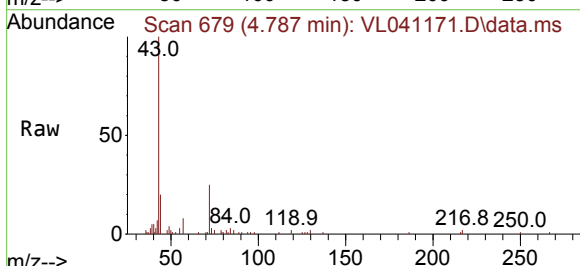
Acq: 25 Apr 2024 15:14

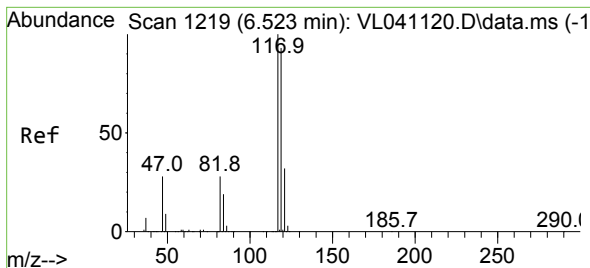
Tgt Ion: 43 Resp: 39207

Ion Ratio Lower Upper

43 100

72 26.0 17.6 26.4





#35

Carbon Tetrachloride

Concen: 0.033 ppbv

RT: 6.471 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

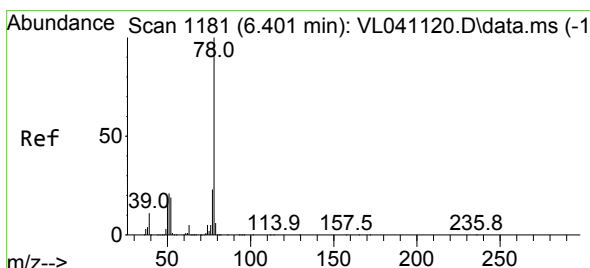
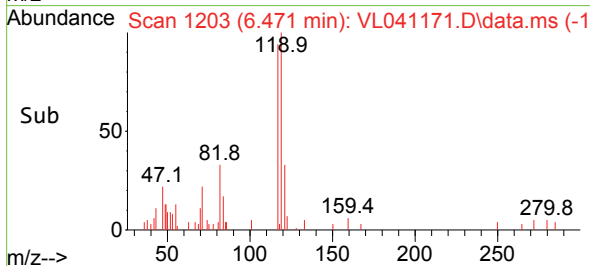
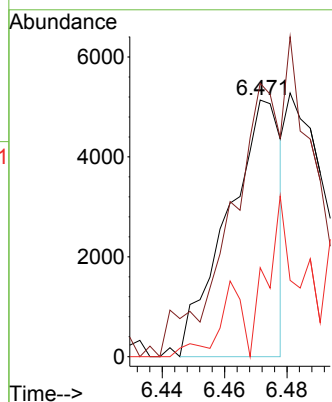
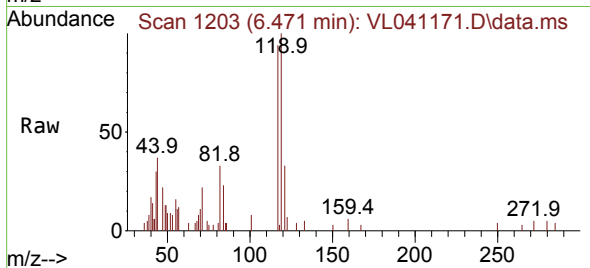
Tgt Ion:117 Resp: 6036

Ion Ratio Lower Upper

117 100

119 91.7 74.2 111.4

121 27.0 25.4 38.2



#36

Benzene

Concen: 0.680 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

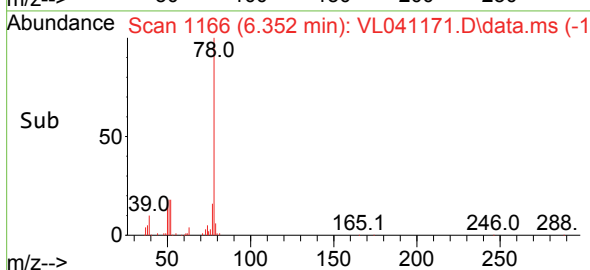
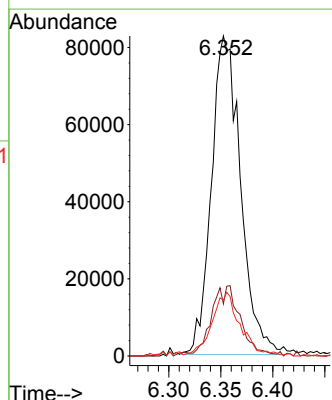
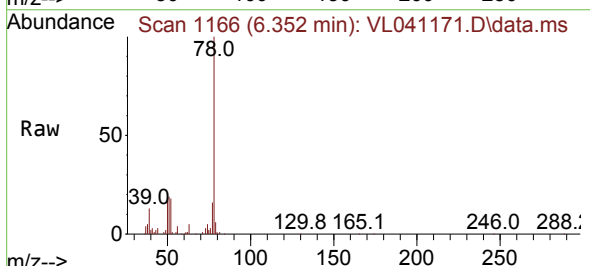
Tgt Ion: 78 Resp: 161310

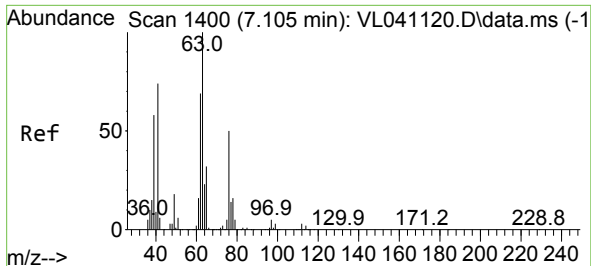
Ion Ratio Lower Upper

78 100

77 15.4 18.2 27.4#

50 17.1 15.4 23.2





#39

1,2-Dichloropropane

Concen: 8.217 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

IA1

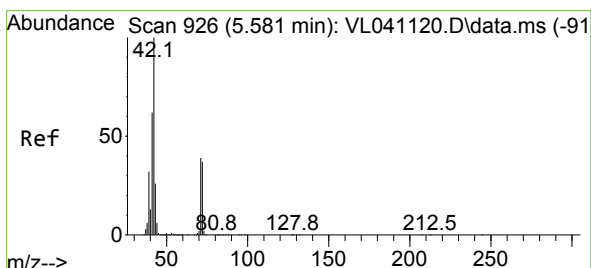
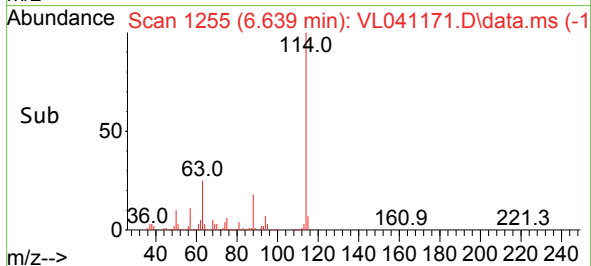
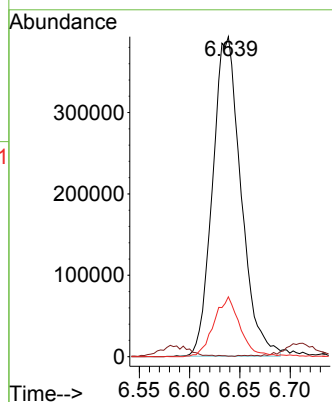
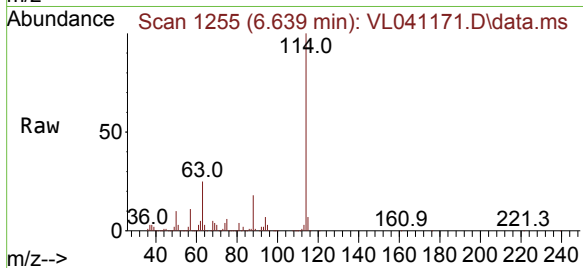
Tgt Ion: 63 Resp: 768269

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 18.7 55.5 83.3#



#41

Tetrahydrofuran

Concen: 0.321 ppbv

RT: 5.803 min Scan# 995

Delta R.T. 0.264 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

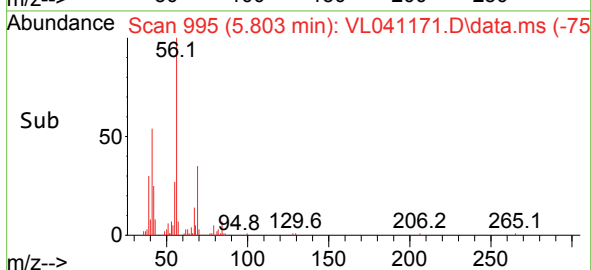
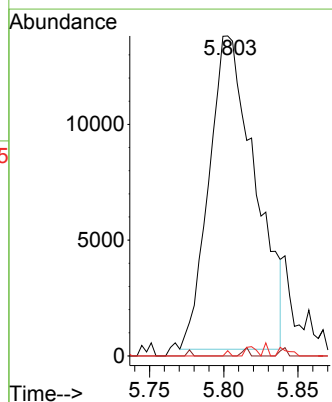
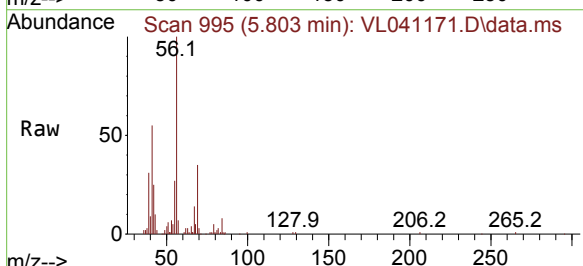
Tgt Ion: 42 Resp: 29227

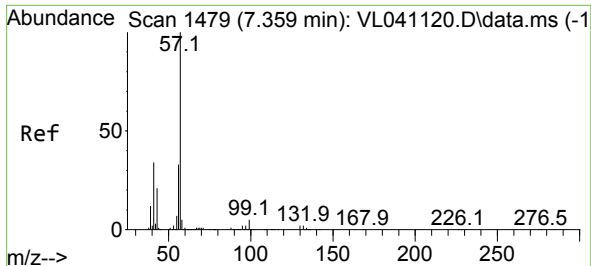
Ion Ratio Lower Upper

42 100

72 0.0 31.2 46.8#

71 0.0 29.9 44.9#

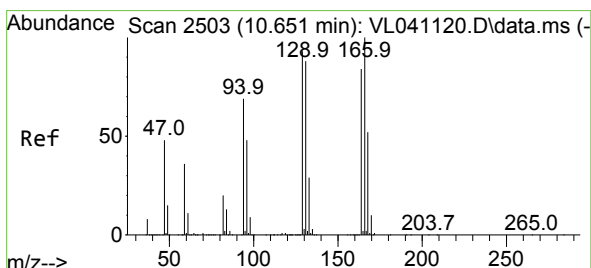
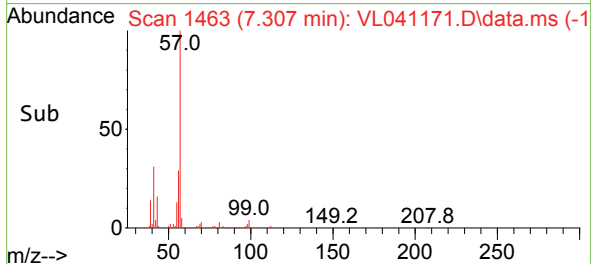
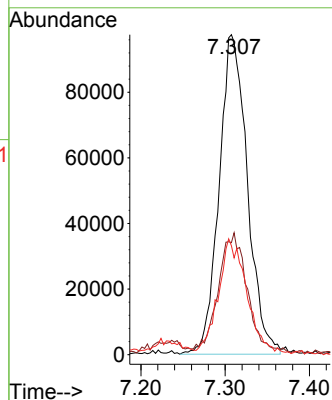
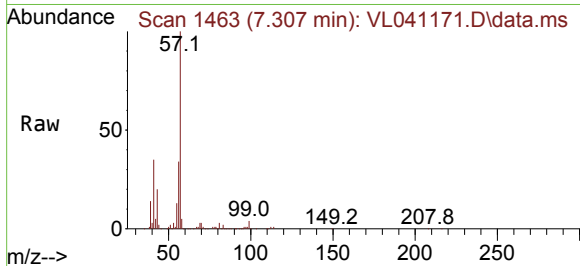




#44
2,2,4-Trimethylpentane
Concen: 0.577 ppbv
RT: 7.307 min Scan# 1479
Delta R.T. 0.003 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

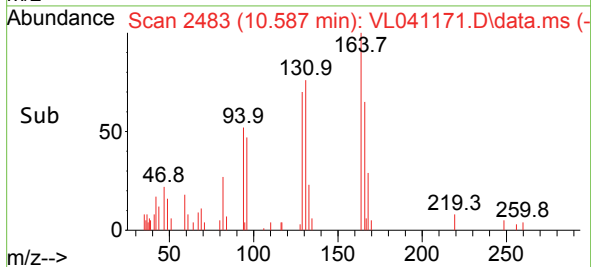
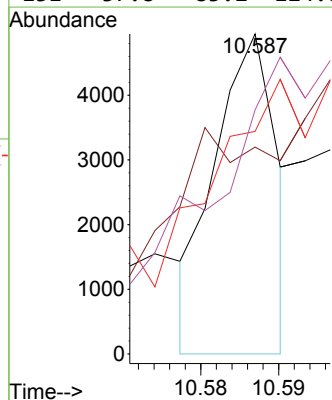
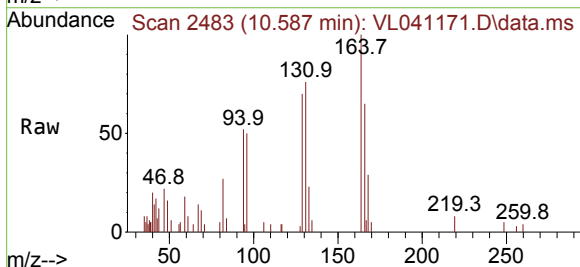
Instrument :
MSVOA_L
ClientSampleId :
IA1

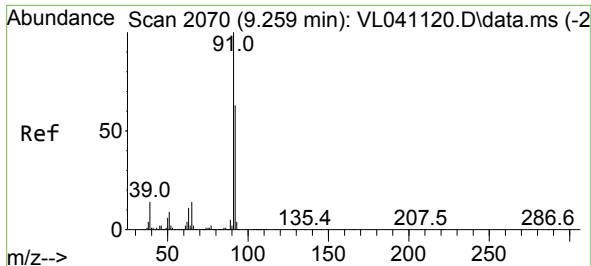
Tgt Ion: 57 Resp: 226559
Ion Ratio Lower Upper
57 100
41 38.5 28.2 42.2
56 37.3 25.2 37.8



#52
Tetrachloroethene
Concen: 0.036 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.003 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

Tgt Ion: 164 Resp: 2734
Ion Ratio Lower Upper
164 100
166 26.3 95.0 142.6#
129 33.7 88.7 133.1#
131 37.8 83.2 124.8#





#53

Toluene

Concen: 1.284 ppbv

RT: 9.198 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

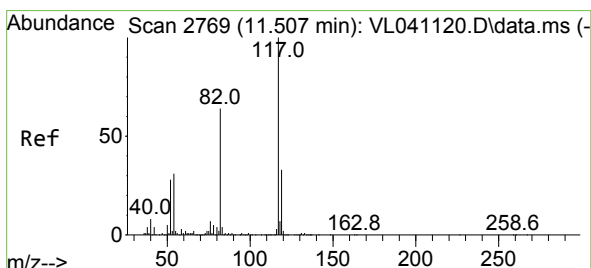
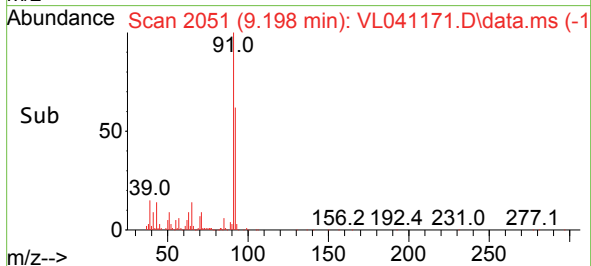
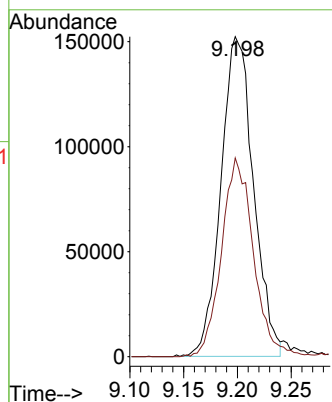
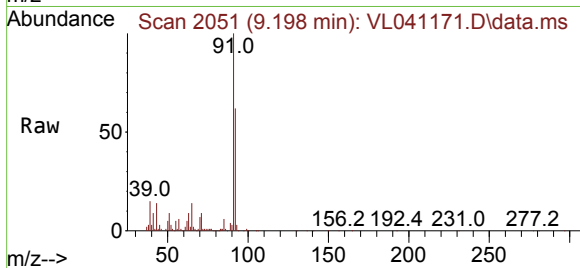
IA1

Tgt Ion: 91 Resp: 320514

Ion Ratio Lower Upper

91 100

92 61.2 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.442 min Scan# 2749

Delta R.T. -0.000 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

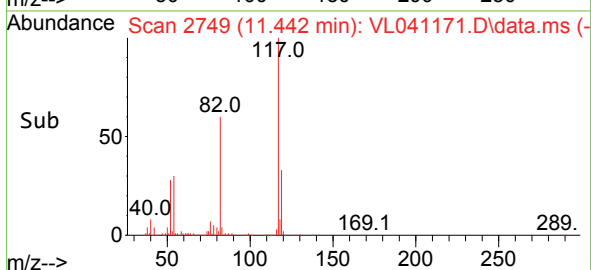
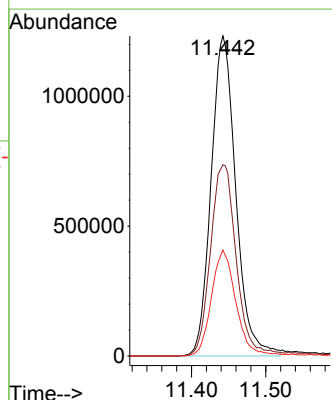
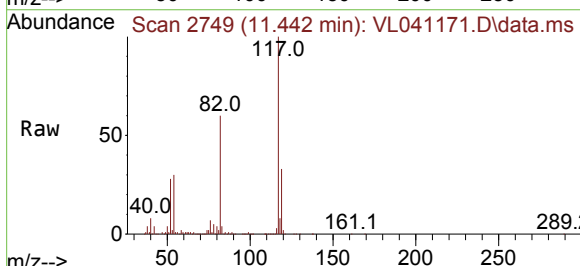
Tgt Ion: 117 Resp: 2848637

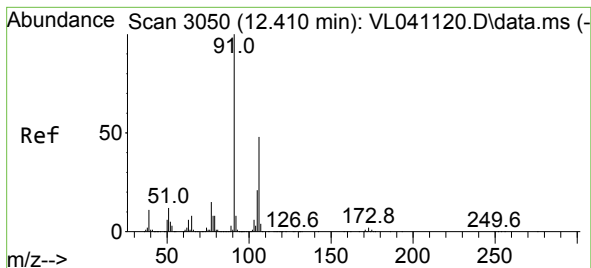
Ion Ratio Lower Upper

117 100

82 63.6 51.0 76.6

119 33.6 25.2 37.8





#59

m/p-Xylene

Concen: 0.161 ppbv

RT: 12.349 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL041171.D

Acq: 25 Apr 2024 15:14

Instrument :

MSVOA_L

ClientSampleId :

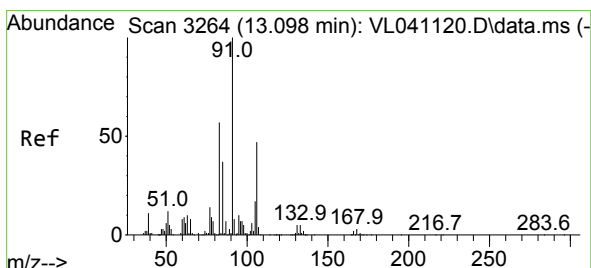
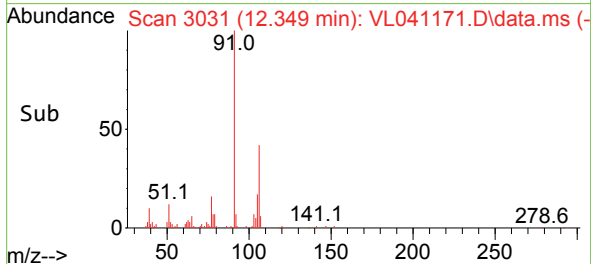
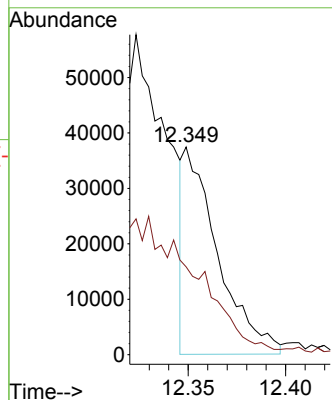
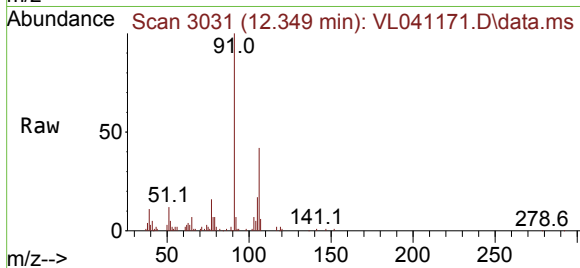
IA1

Tgt Ion: 91 Resp: 45394

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.136 ppbv

RT: 13.034 min Scan# 3244

Delta R.T. -0.000 min

Lab File: VL041171.D

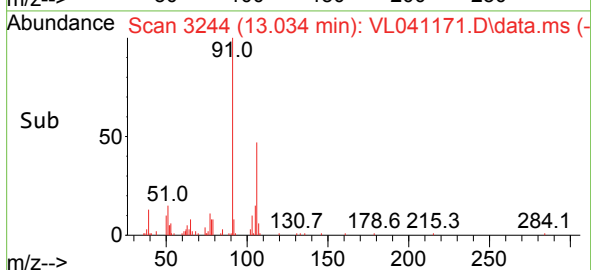
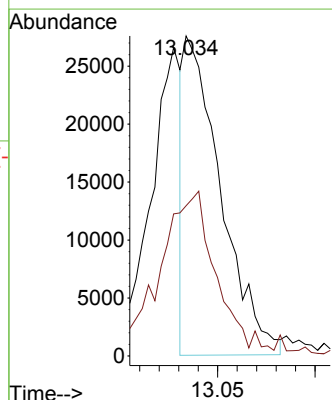
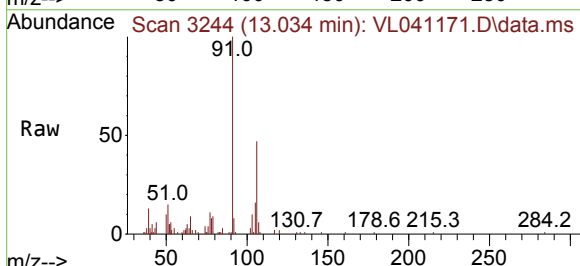
Acq: 25 Apr 2024 15:14

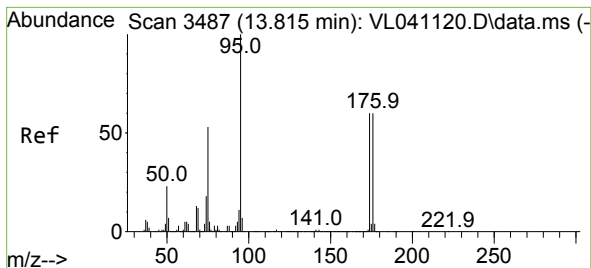
Tgt Ion: 91 Resp: 36190

Ion Ratio Lower Upper

91 100

106 83.1 22.9 68.5#

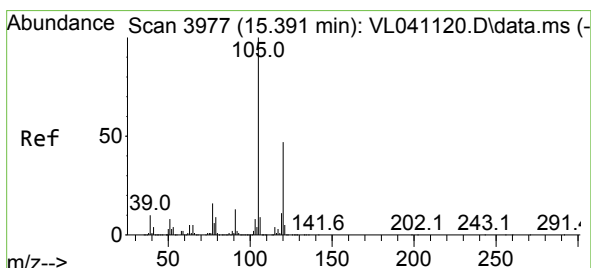
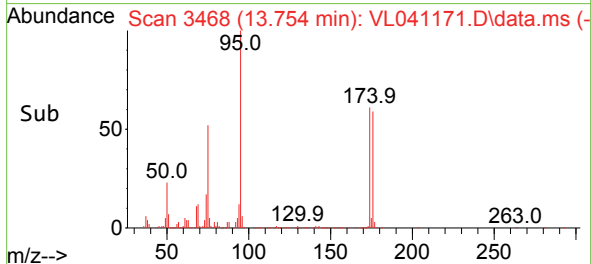
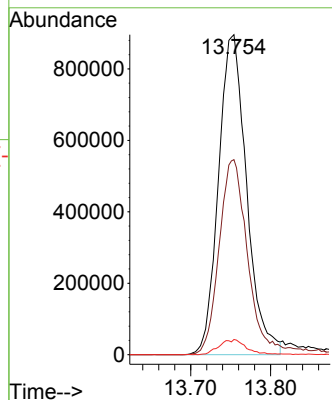
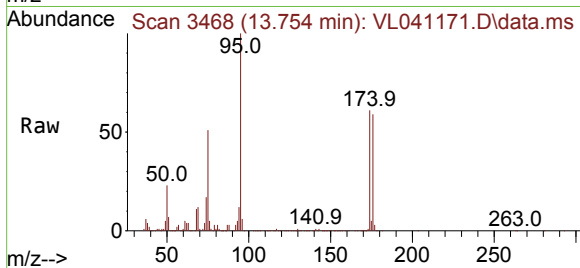




#68
1-Bromo-4-Fluorobenzene
Concen: 9.538 ppbv
RT: 13.754 min Scan# 3487
Delta R.T. 0.006 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

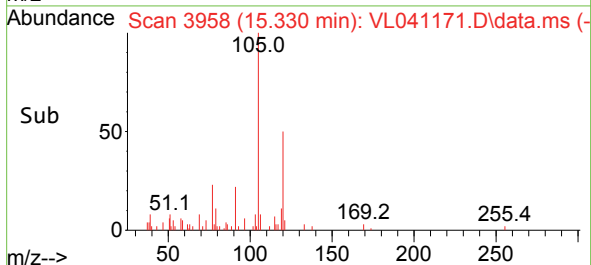
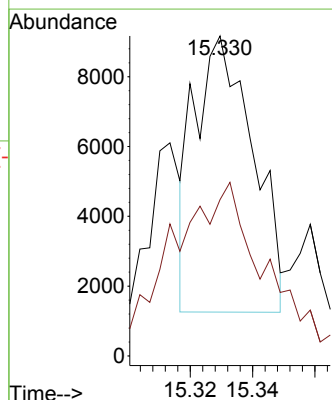
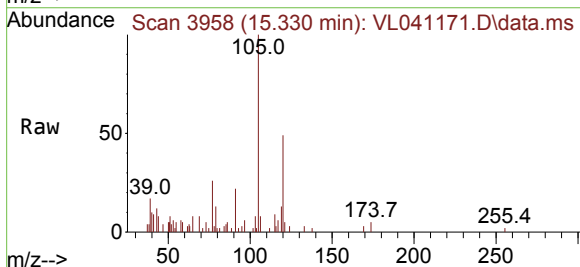
Instrument :
MSVOA_L
ClientSampleId :
IA1

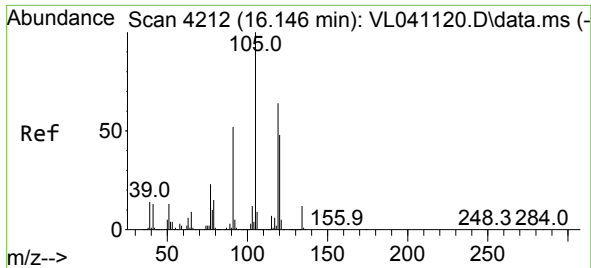
Tgt Ion: 95 Resp: 2184830
Ion Ratio Lower Upper
95 100
174 64.2 49.3 73.9
175 4.8 3.6 5.4



#73
1,3,5-Trimethylbenzene
Concen: 0.039 ppbv
RT: 15.330 min Scan# 3958
Delta R.T. 0.003 min
Lab File: VL041171.D
Acq: 25 Apr 2024 15:14

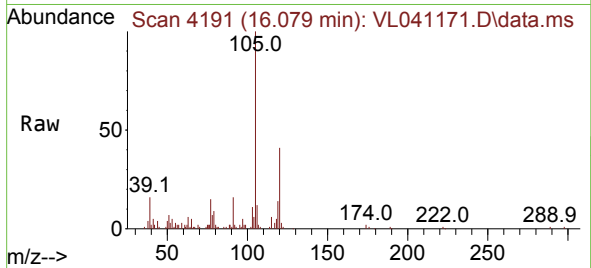
Tgt Ion: 105 Resp: 10323
Ion Ratio Lower Upper
105 100
120 39.1 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.152 ppbv
 RT: 16.079 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041171.D
 Acq: 25 Apr 2024 15:14

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	45725
Ion	Ratio	Lower	Upper
105	100		
120	41.3	38.9	58.3
91	14.7	43.0	64.6#
77	12.7	18.6	28.0#

