

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041430.D
 Acq On : 29 Jul 2024 15:37
 Operator : SY/MD
 Sample : P3342-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:50:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1064675	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	3012374	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2784168	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2130827	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

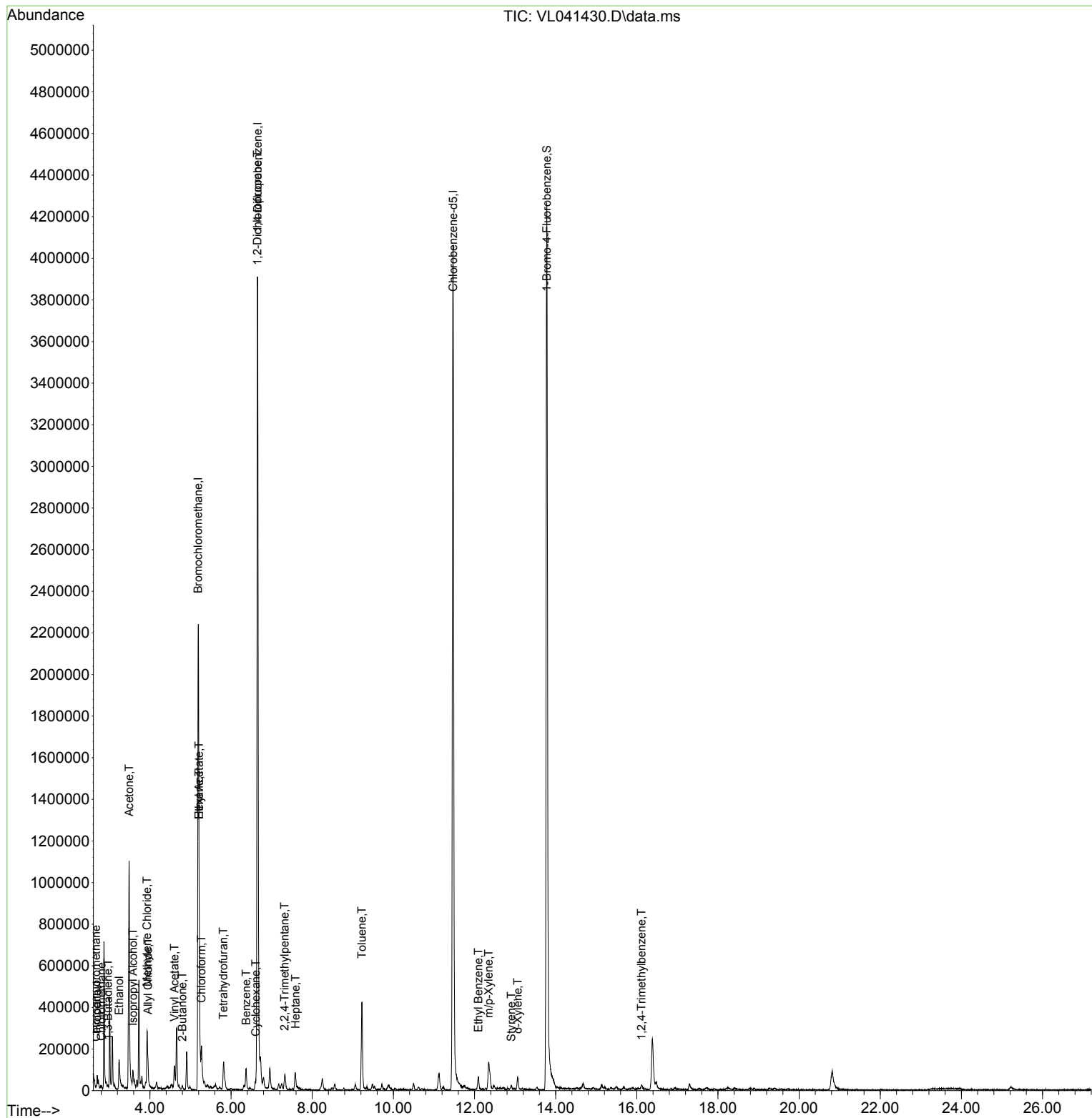
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.674	51	6438	0.051	ppbv #	70
4) Chloromethane	2.809	50	5193	0.077	ppbv #	71
9) Propene	2.697	41	11773	0.202	ppbv	95
10) Heptane	7.587	43	12789	0.098	ppbv #	27
13) Ethanol	3.240	45	169857	32.640	ppbv	93
15) Acetone	3.488	43	613058	5.068	ppbv #	77
16) 1,3-Butadiene	2.963	39	3254	0.050	ppbv #	20
19) Isopropyl Alcohol	3.581	45	80509	1.138	ppbv #	91
20) Methylene Chloride	3.931	84	88651	1.965	ppbv	93
21) Allyl Chloride	3.951	41	11962	0.151	ppbv #	47
23) Vinyl Acetate	4.607	43	18927	0.205	ppbv #	1
25) Ethyl Acetate	5.211	43	139994	0.583	ppbv #	86
26) Hexane	5.211	57	170054	1.706	ppbv #	40
29) Chloroform	5.269	83	96342	0.592	ppbv	88
30) Cyclohexane	6.606	84	4083	0.050	ppbv #	1
34) 2-Butanone	4.796	43	16661	0.114	ppbv #	74
36) Benzene	6.372	78	73126	0.332	ppbv	98
39) 1,2-Dichloropropane	6.648	63	752345	8.928	ppbv #	25
41) Tetrahydrofuran	5.809	42	5607	0.067	ppbv #	38
44) 2,2,4-Trimethylpentane	7.320	57	22863	0.062	ppbv #	1
53) Toluene	9.224	91	322040	1.313	ppbv	98
58) Ethyl Benzene	12.098	91	27332	0.085	ppbv	96
59) m/p-Xylene	12.349	91	140844	0.508	ppbv	98
60) o-Xylene	13.066	91	20617	0.079	ppbv #	25
61) Styrene	12.905	104	5873	0.050	ppbv #	50
74) 1,2,4-Trimethylbenzene	16.117	105	11925	0.039	ppbv #	77

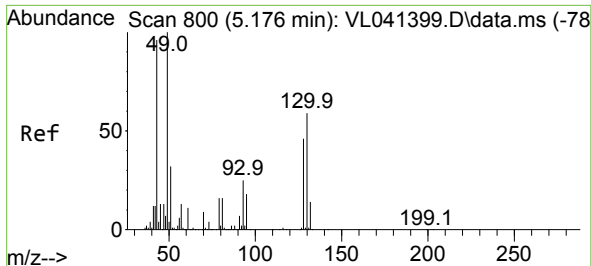
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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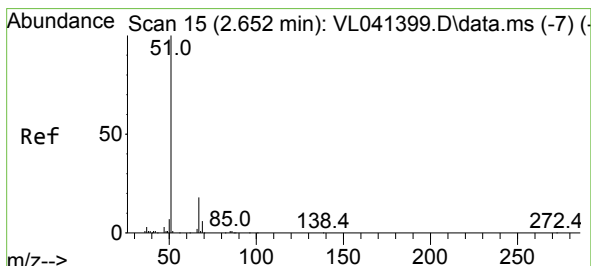
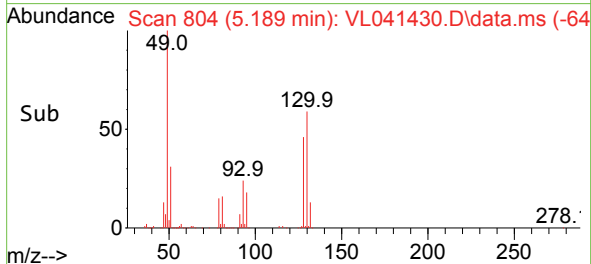
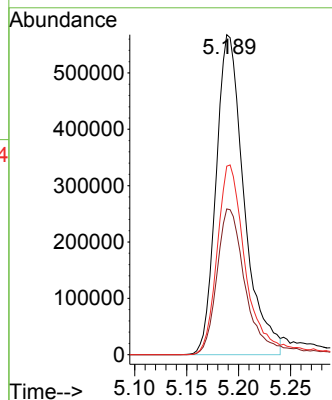
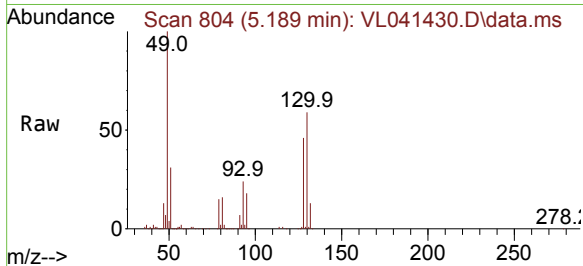




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

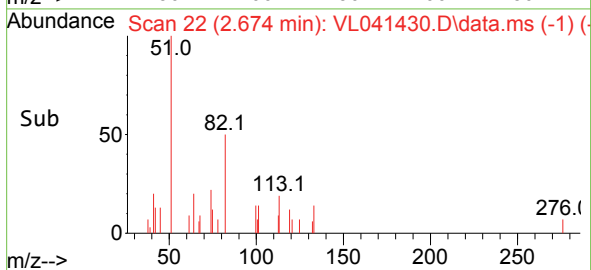
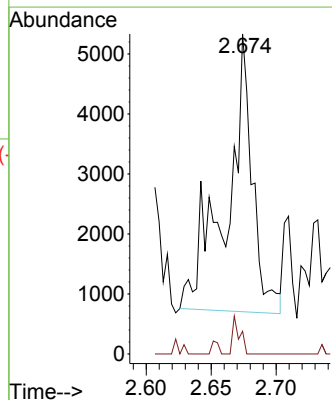
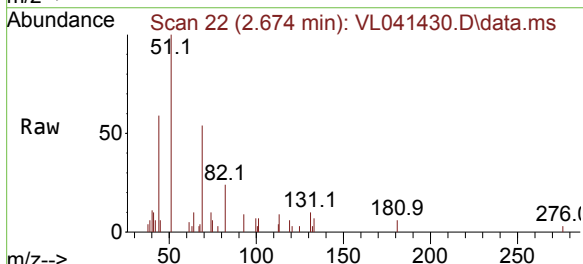
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MSVOA_L
ClientSampleId :

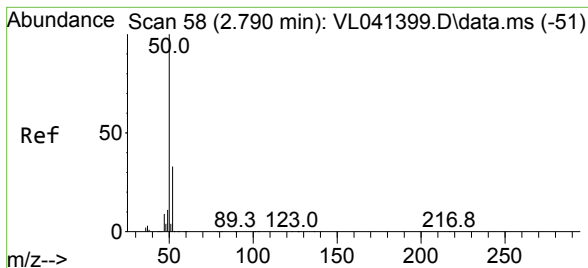
Tgt Ion: 49 Resp: 1064675
Ion Ratio Lower Upper
49 100
128 49.2 23.8 71.4
130 63.0 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 2.674 min Scan# 22
Delta R.T. 0.019 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 51 Resp: 6438
Ion Ratio Lower Upper
51 100
67 5.0 14.5 21.7#

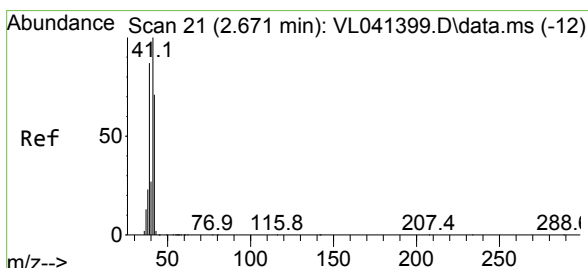
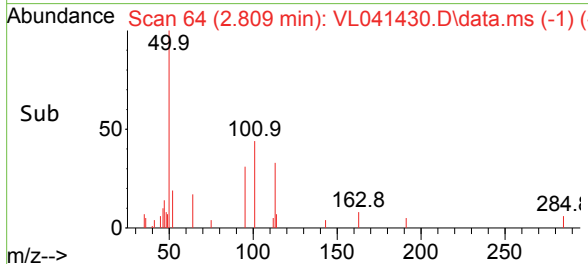
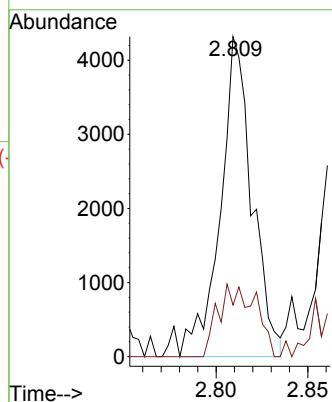
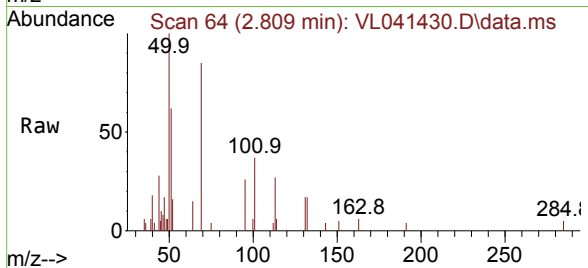




#4
Chloromethane
Concen: 0.077 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.016 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

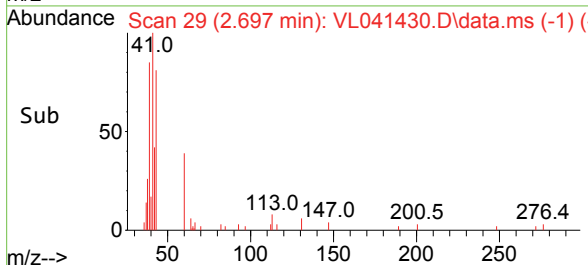
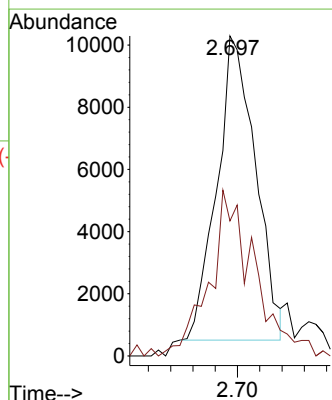
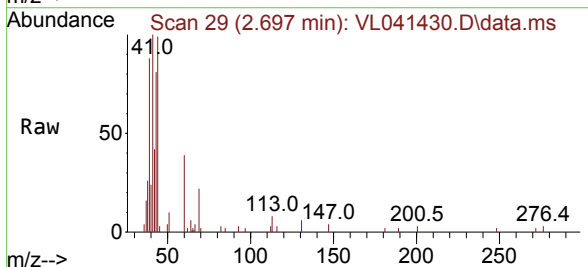
Instrument :
MSVOA_L
ClientSampleId :

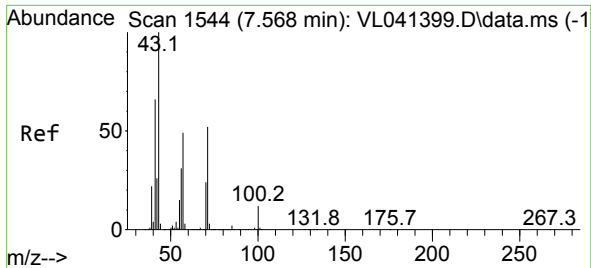
Tgt Ion: 50 Resp: 5193
Ion Ratio Lower Upper
50 100
52 16.2 26.1 39.1#



#9
Propene
Concen: 0.202 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.026 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 41 Resp: 11773
Ion Ratio Lower Upper
41 100
42 65.5 55.9 83.9

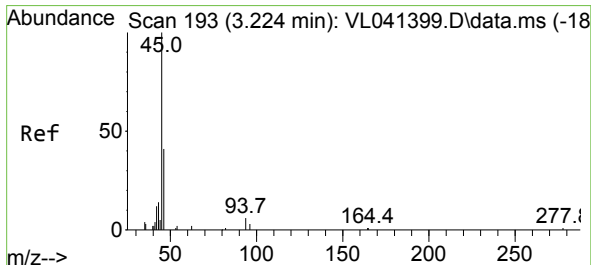
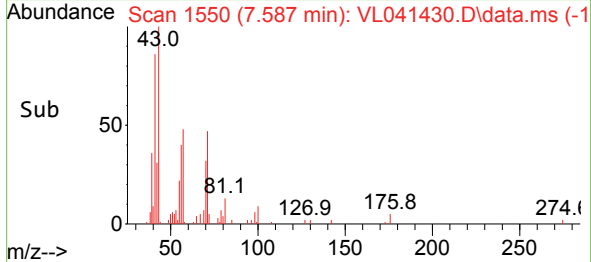
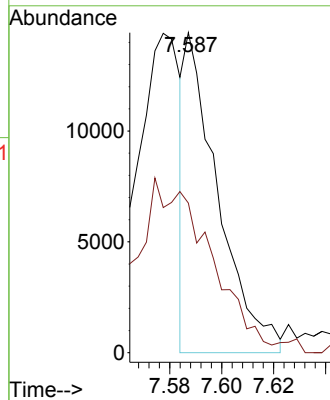
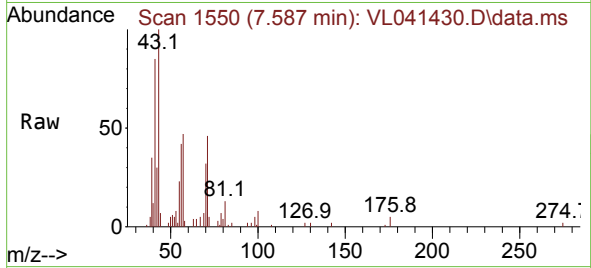




#10
 Heptane
 Concen: 0.098 ppbv
 RT: 7.587 min Scan# 11
 Delta R.T. 0.016 min
 Lab File: VL041430.D
 Acq: 29 Jul 2024 15:37

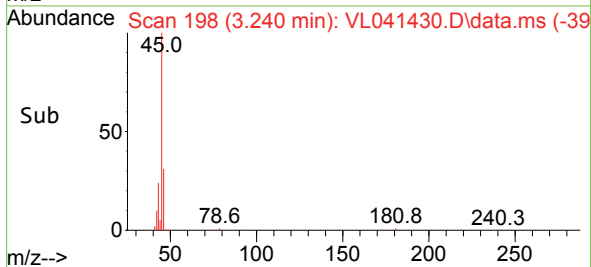
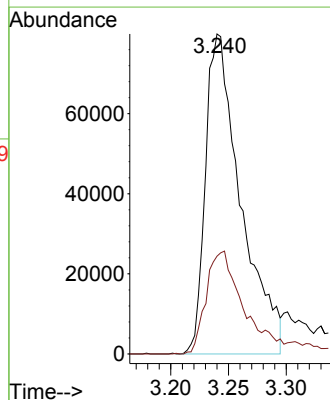
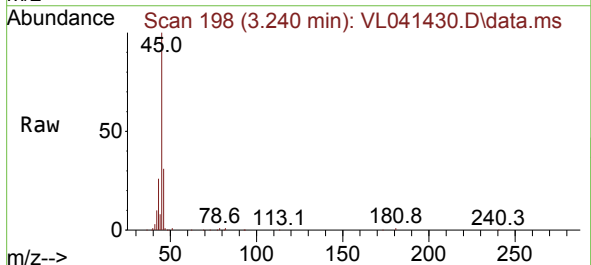
Instrument :
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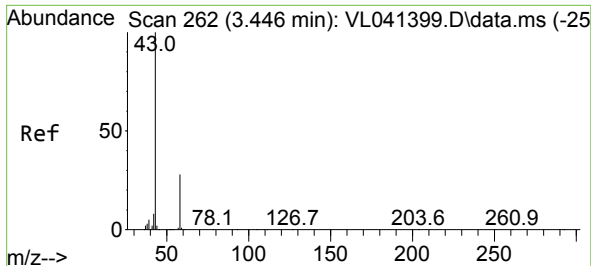
Tgt Ion: 43 Resp: 12789
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#



#13
 Ethanol
 Concen: 32.640 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. 0.013 min
 Lab File: VL041430.D
 Acq: 29 Jul 2024 15:37

Tgt Ion: 45 Resp: 169857
 Ion Ratio Lower Upper
 45 100
 46 37.5 13.4 53.4

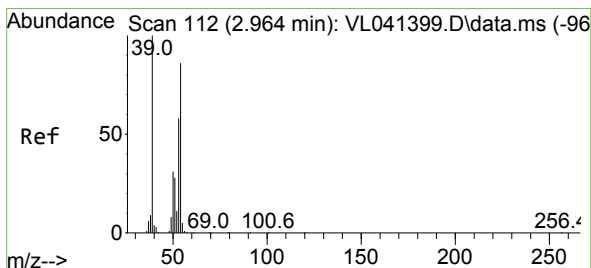
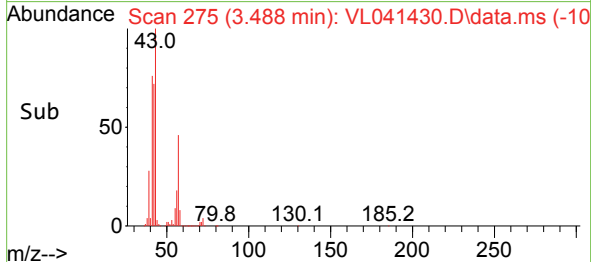
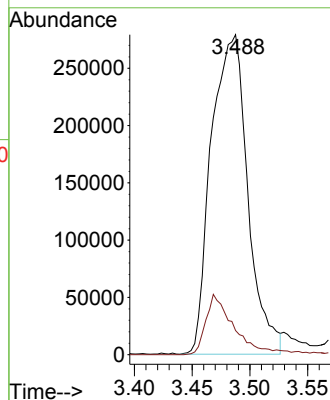
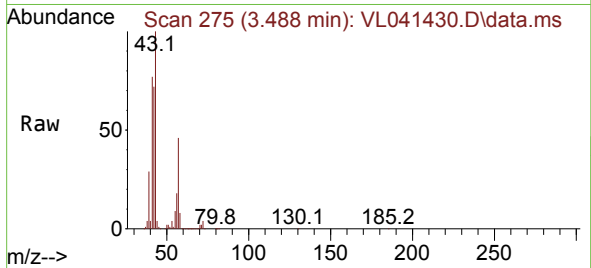




#15
Acetone
Concen: 5.068 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

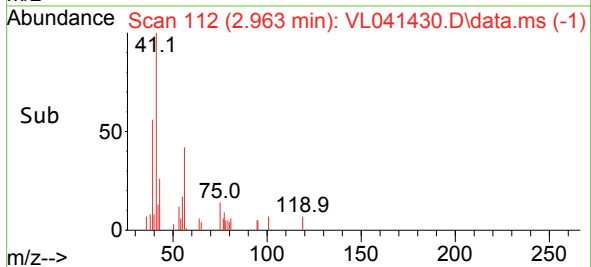
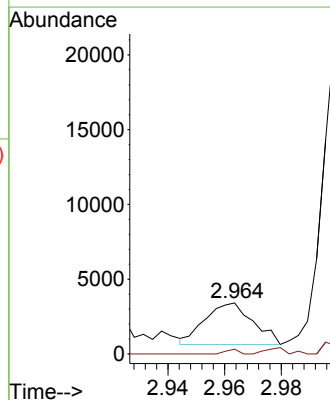
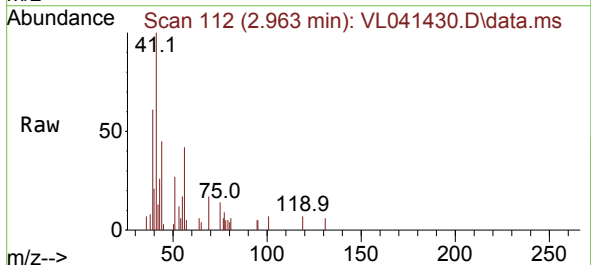
Instrument :
MSVOA_L
ClientSampleId :

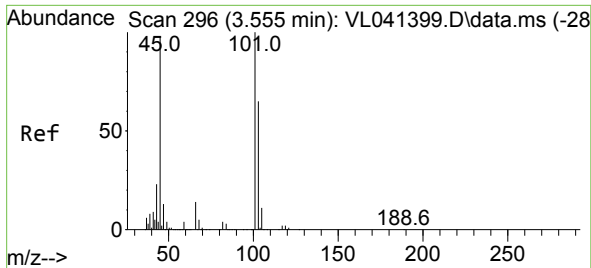
Tgt Ion: 43 Resp: 613058
Ion Ratio Lower Upper
43 100
58 15.1 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.050 ppbv
RT: 2.963 min Scan# 112
Delta R.T. -0.003 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 39 Resp: 3254
Ion Ratio Lower Upper
39 100
54 8.6 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 1.138 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.019 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

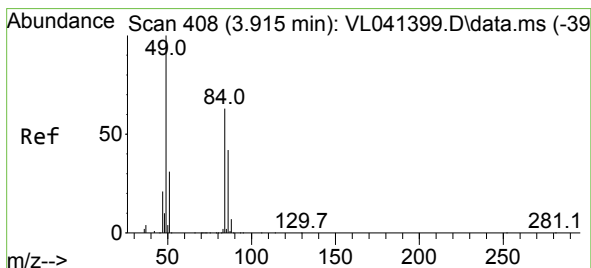
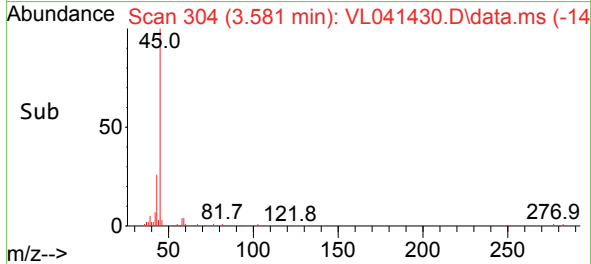
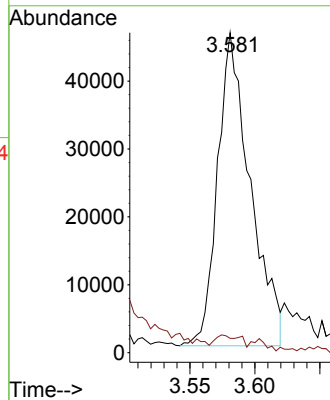
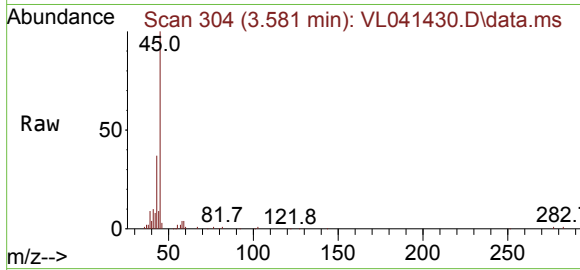
ClientSampleId :

Tgt Ion: 45 Resp: 80509

Ion Ratio Lower Upper

45 100

58 5.6 1.9 2.9#



#20

Methylene Chloride

Concen: 1.965 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.013 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Tgt Ion: 84 Resp: 88651

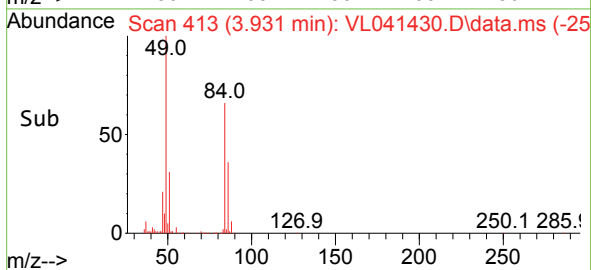
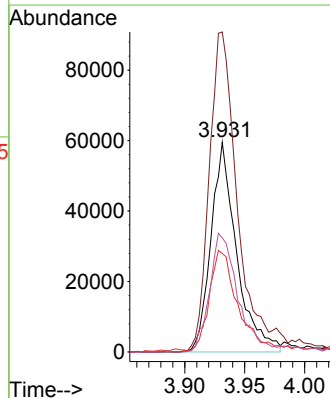
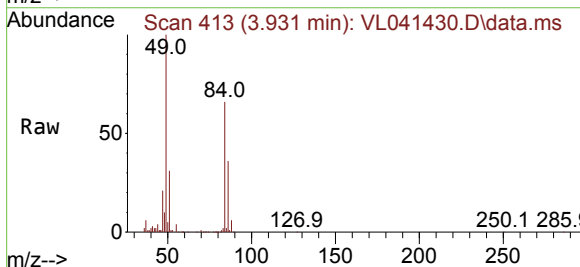
Ion Ratio Lower Upper

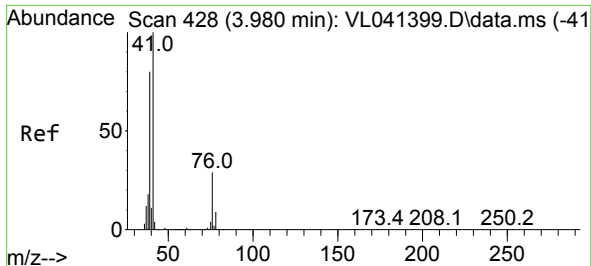
84 100

49 152.6 126.6 190.0

51 45.9 38.6 58.0

86 54.4 53.0 79.4

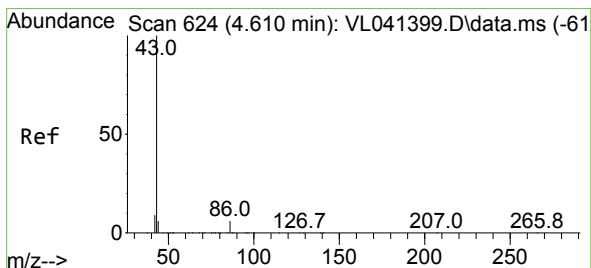
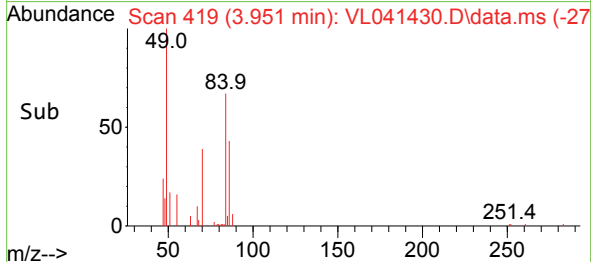
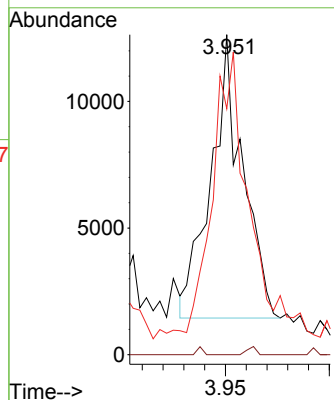
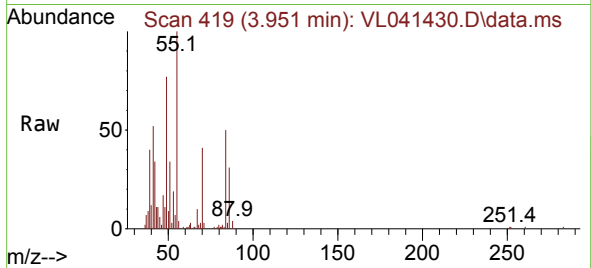




#21
 Allyl Chloride
 Concen: 0.151 ppbv
 RT: 3.951 min Scan# 41
 Delta R.T. -0.029 min
 Lab File: VL041430.D
 Acq: 29 Jul 2024 15:37

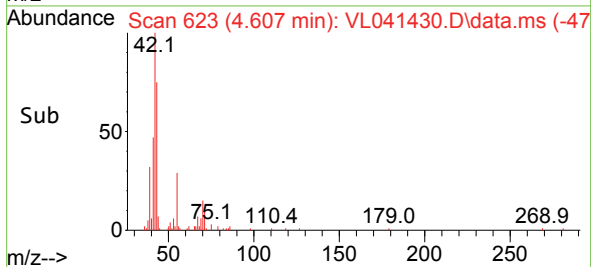
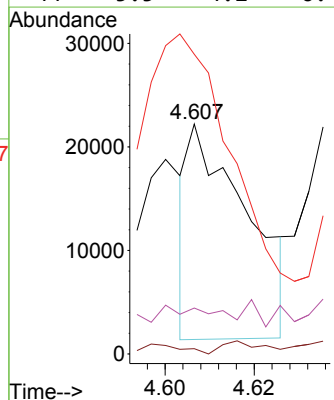
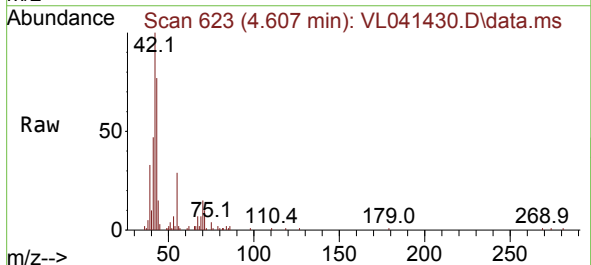
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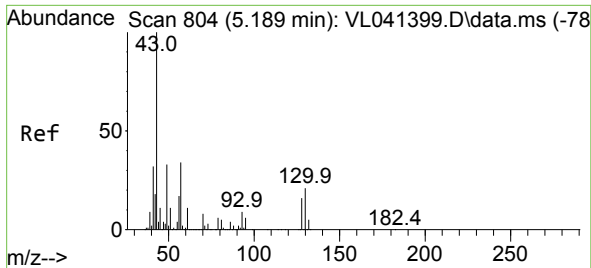
Tgt Ion: 41 Resp: 11962
 Ion Ratio Lower Upper
 41 100
 76 0.5 23.7 35.5#
 39 126.4 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.205 ppbv
 RT: 4.607 min Scan# 623
 Delta R.T. -0.006 min
 Lab File: VL041430.D
 Acq: 29 Jul 2024 15:37

Tgt Ion: 43 Resp: 18927
 Ion Ratio Lower Upper
 43 100
 86 0.5 4.6 6.8#
 42 194.2 7.9 11.9#
 44 5.5 4.2 6.4

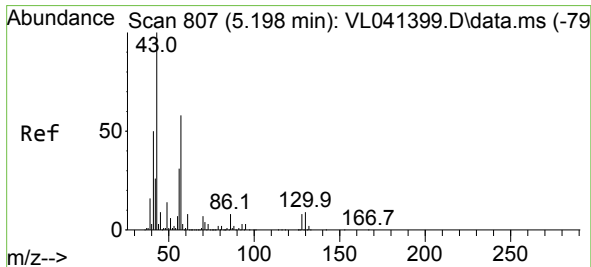
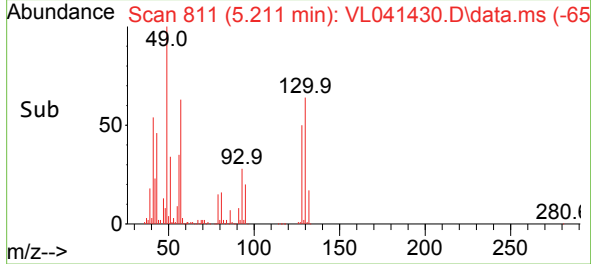
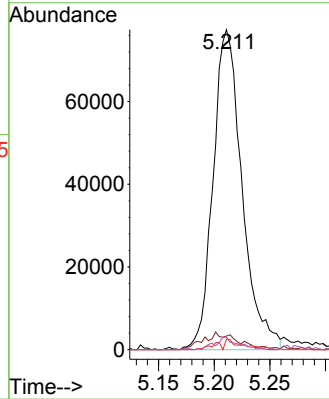
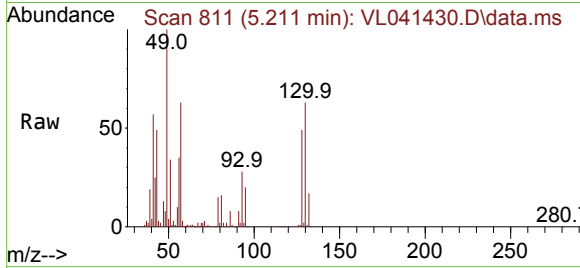




#25
Ethyl Acetate
Concen: 0.583 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

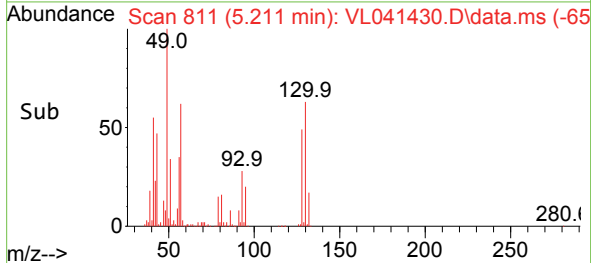
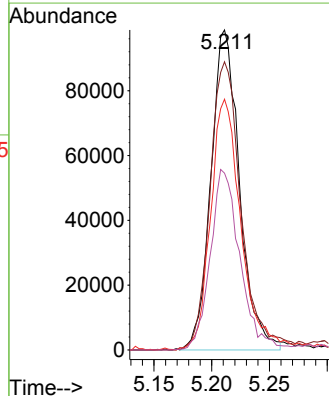
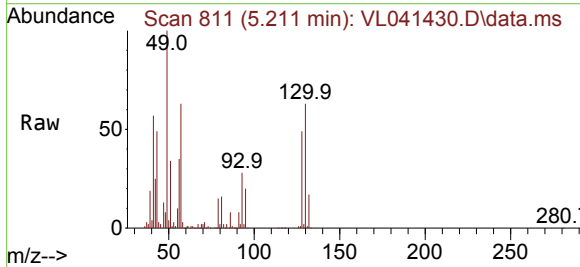
Instrument :
MSVOA_L
ClientSampleId :

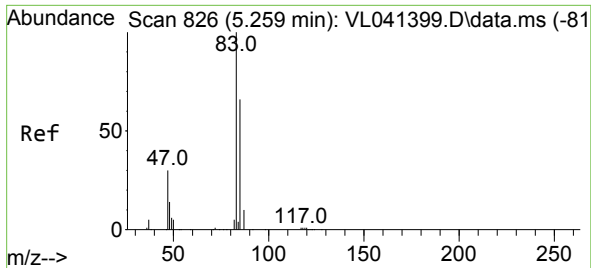
Tgt Ion: 43 Resp: 139994
Ion Ratio Lower Upper
43 100
45 6.6 8.5 12.7#
61 2.6 8.0 12.0#
70 3.4 5.9 8.9#



#26
Hexane
Concen: 1.706 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 57 Resp: 170054
Ion Ratio Lower Upper
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41 101.1 74.0 111.0
43 87.0 193.6 290.4#
56 58.3 43.1 64.7

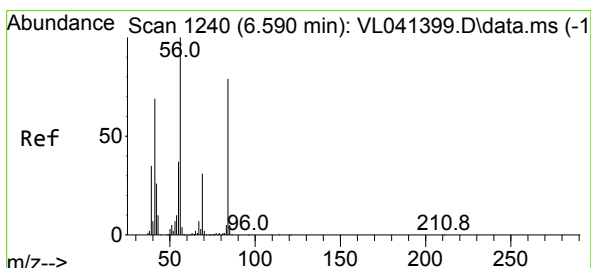
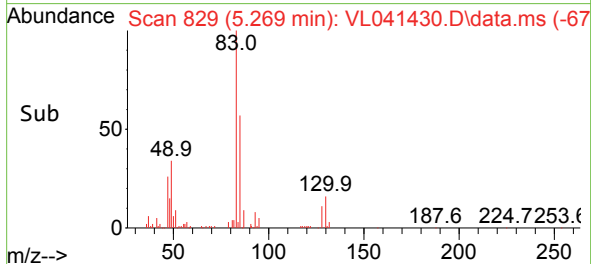
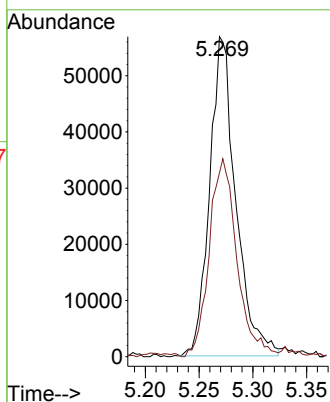
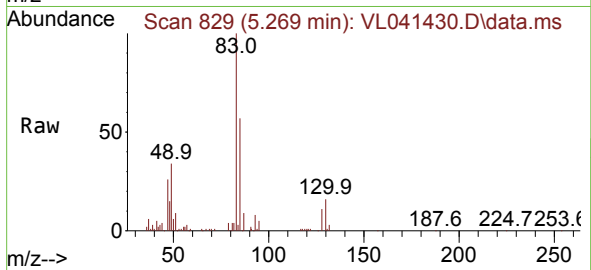




#29
Chloroform
Concen: 0.592 ppbv
RT: 5.269 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

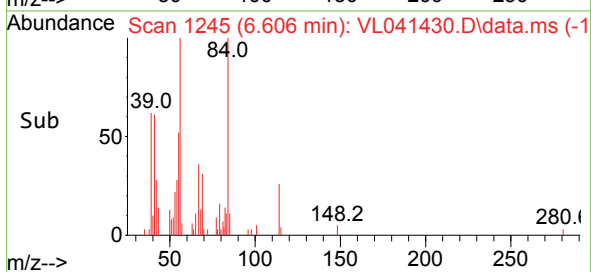
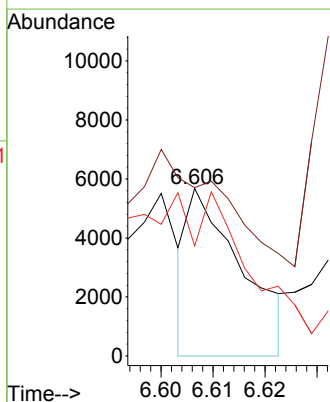
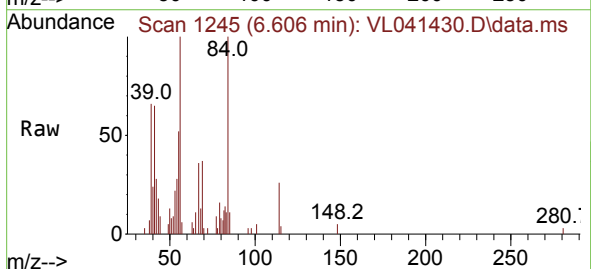
Instrument :
MSVOA_L
ClientSampleId :

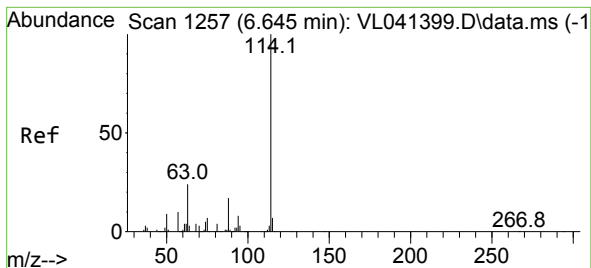
Tgt Ion: 83 Resp: 96342
Ion Ratio Lower Upper
83 100
85 56.9 53.1 79.7



#30
Cyclohexane
Concen: 0.050 ppbv
RT: 6.606 min Scan# 1245
Delta R.T. 0.013 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 84 Resp: 4083
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 324.9 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

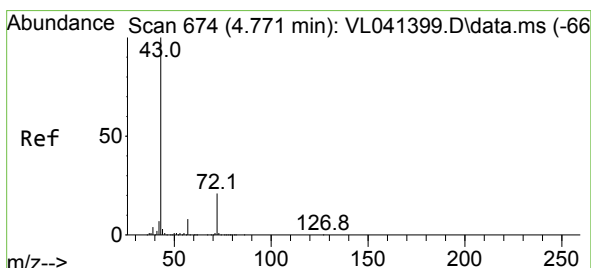
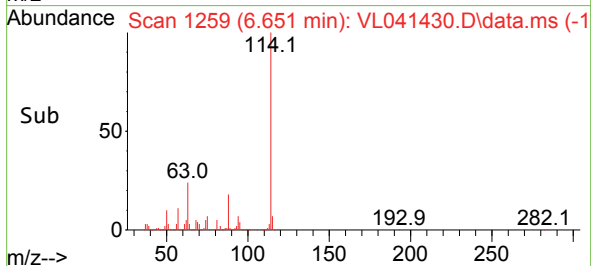
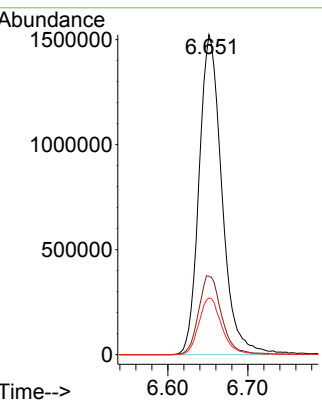
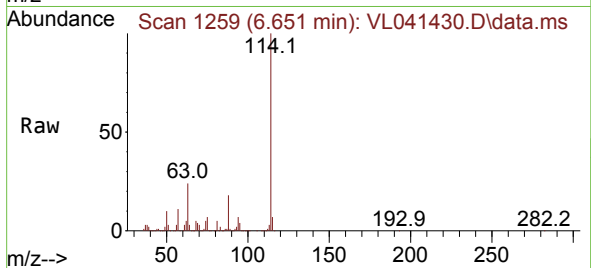
Tgt Ion:114 Resp: 3012374

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.114 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.022 min

Lab File: VL041430.D

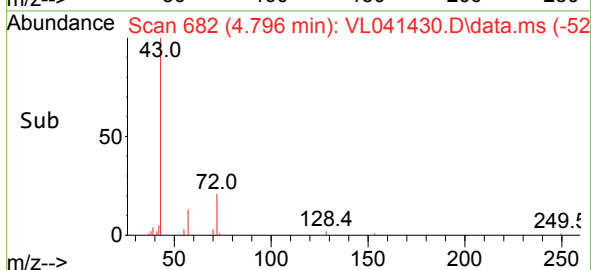
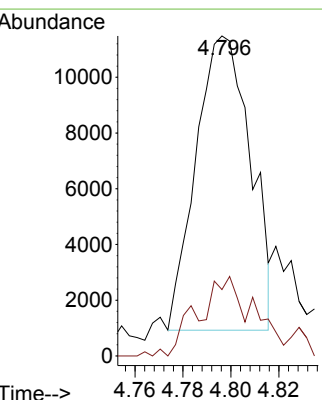
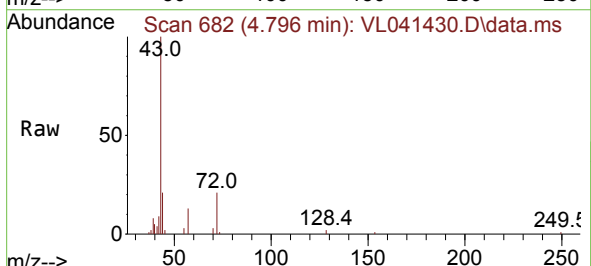
Acq: 29 Jul 2024 15:37

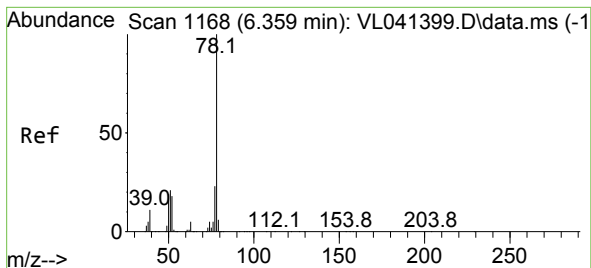
Tgt Ion: 43 Resp: 16661

Ion Ratio Lower Upper

43 100

72 34.1 17.3 25.9#





#36

Benzene

Concen: 0.332 ppbv

RT: 6.372 min Scan# 1168

Delta R.T. 0.013 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

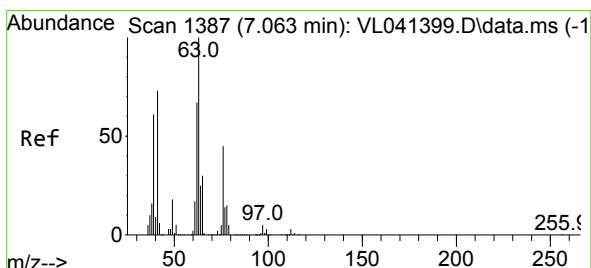
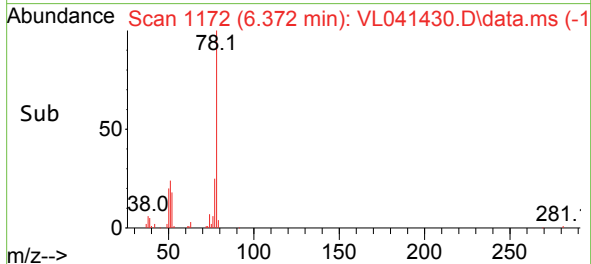
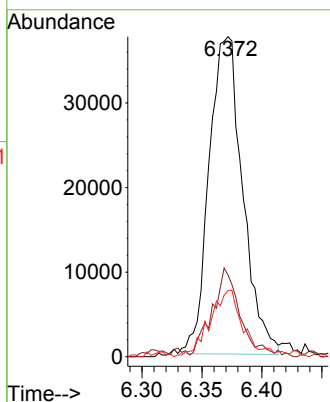
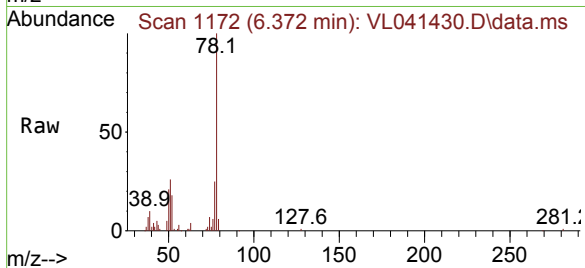
Tgt Ion: 78 Resp: 73126

Ion Ratio Lower Upper

78 100

77 23.6 18.1 27.1

50 20.3 15.5 23.3



#39

1,2-Dichloropropane

Concen: 8.928 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.415 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

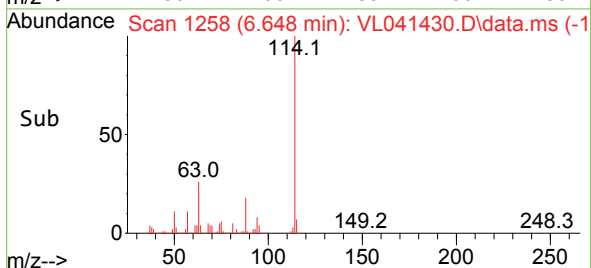
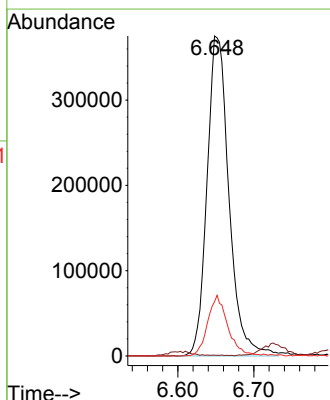
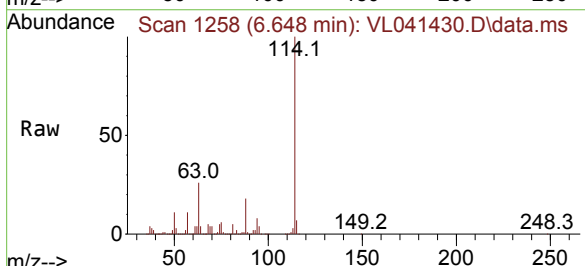
Tgt Ion: 63 Resp: 752345

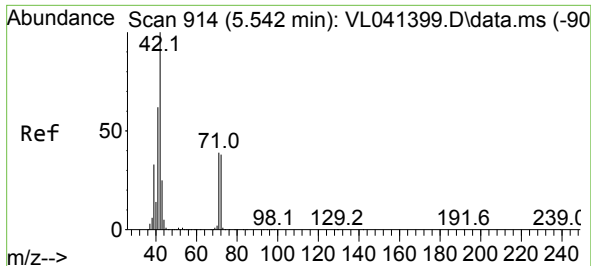
Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.0 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.067 ppbv

RT: 5.809 min Scan# 914

Delta R.T. 0.264 min

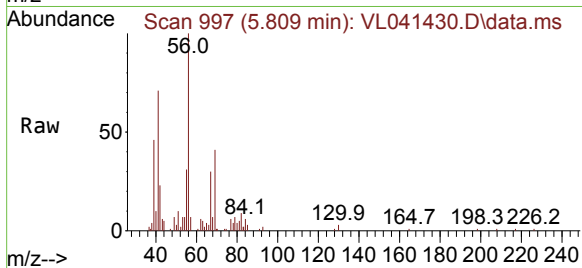
Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

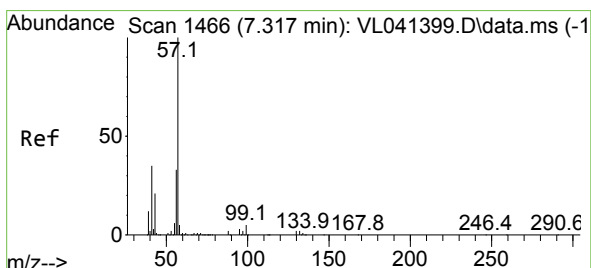
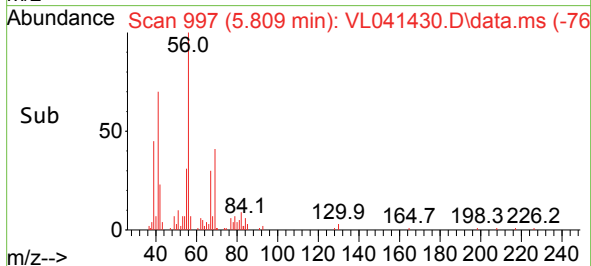
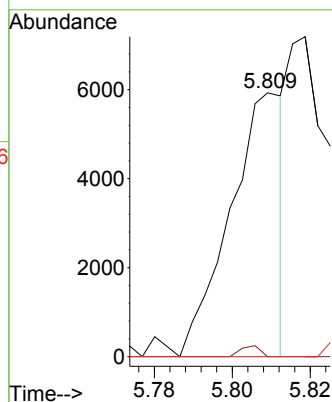
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	42	Resp:	5607
Ion Ratio	Lower	Upper	
42	100		
72	1.5	31.2	46.8#
71	0.0	30.5	45.7#



#44

2,2,4-Trimethylpentane

Concen: 0.062 ppbv

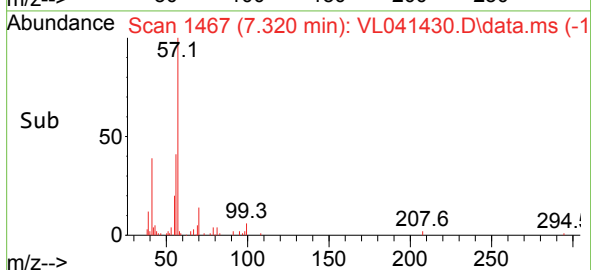
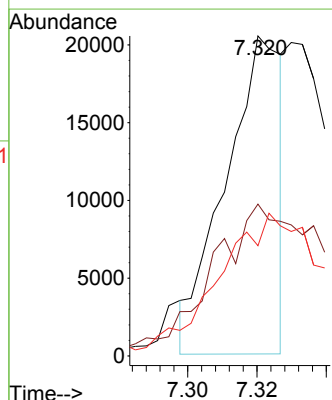
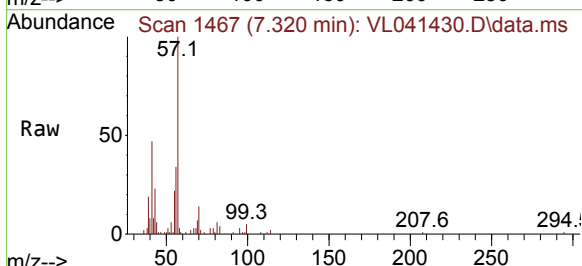
RT: 7.320 min Scan# 1467

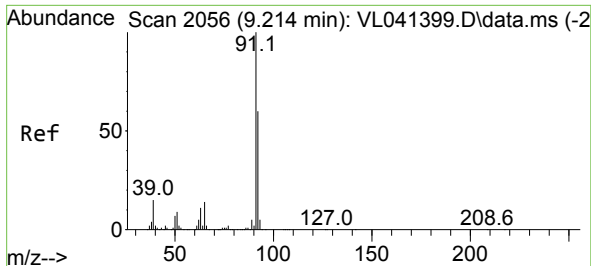
Delta R.T. 0.003 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Tgt Ion:	57	Resp:	22863
Ion Ratio	Lower	Upper	
57	100		
41	115.2	27.0	40.6#
56	101.4	25.2	37.8#





#53

Toluene

Concen: 1.313 ppbv

RT: 9.224 min Scan# 2056

Delta R.T. 0.006 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

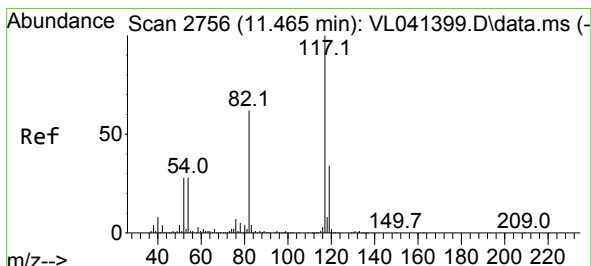
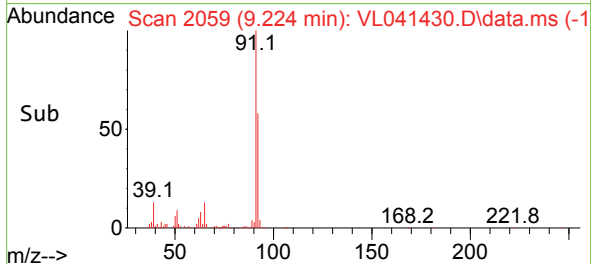
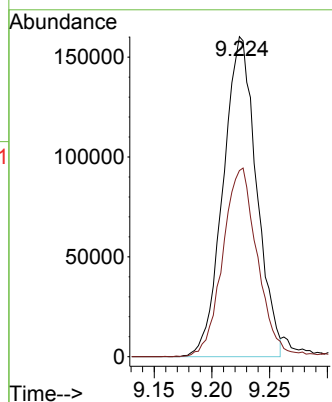
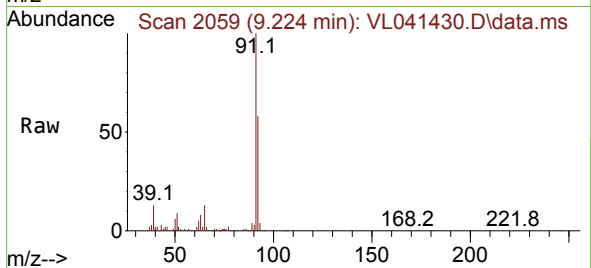
ClientSampleId :

Tgt Ion: 91 Resp: 322040

Ion Ratio Lower Upper

91 100

92 62.1 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 2758

Delta R.T. 0.006 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

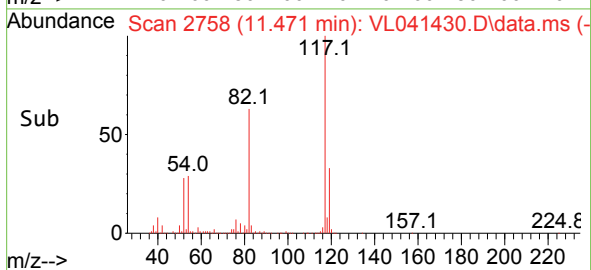
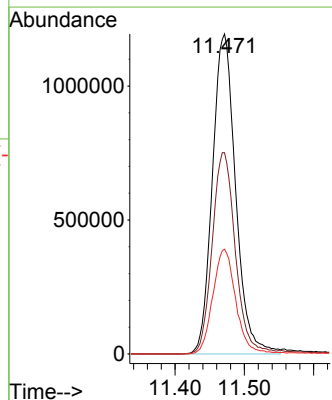
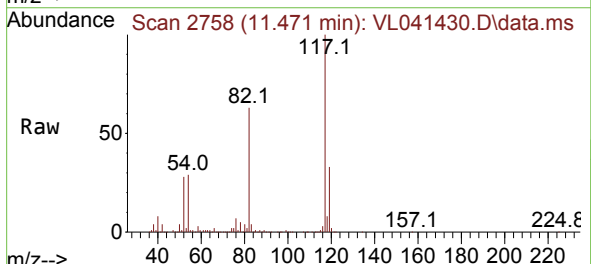
Tgt Ion: 117 Resp: 2784168

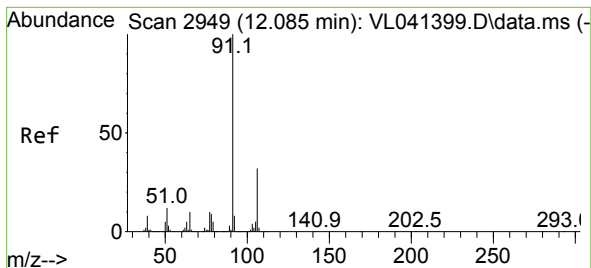
Ion Ratio Lower Upper

117 100

82 63.9 51.0 76.6

119 33.0 45.2 67.8#





#58

Ethyl Benzene

Concen: 0.085 ppbv

RT: 12.098 min Scan# 2949

Delta R.T. 0.013 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

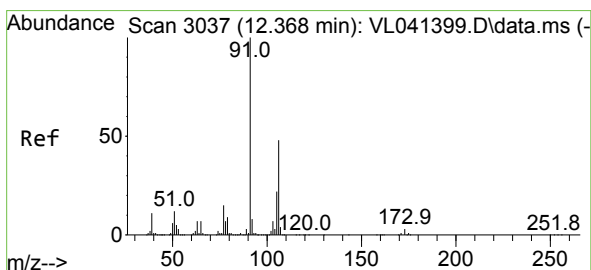
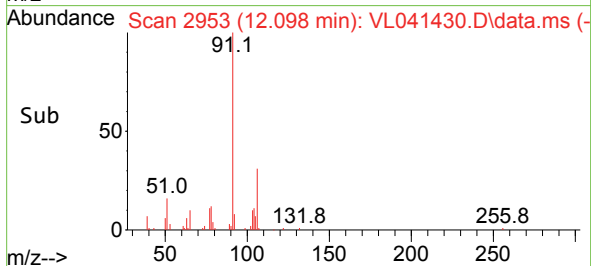
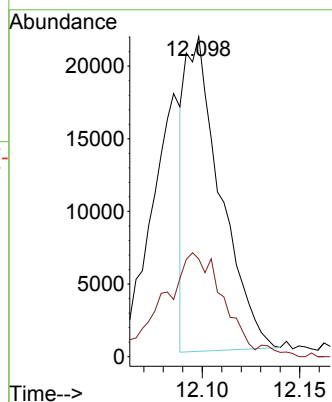
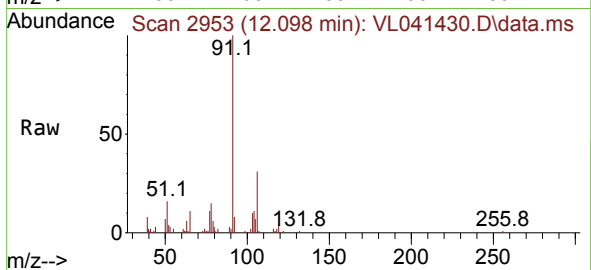
ClientSampleId :

Tgt Ion: 91 Resp: 27332

Ion Ratio Lower Upper

91 100

106 30.1 25.8 38.8



#59

m/p-Xylene

Concen: 0.508 ppbv

RT: 12.349 min Scan# 3031

Delta R.T. -0.019 min

Lab File: VL041430.D

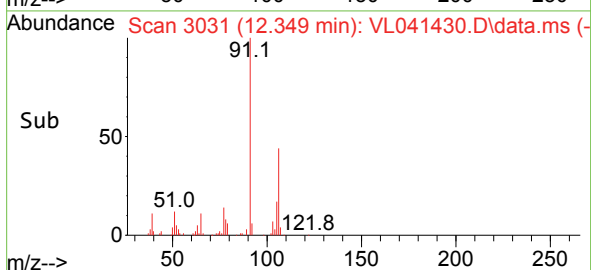
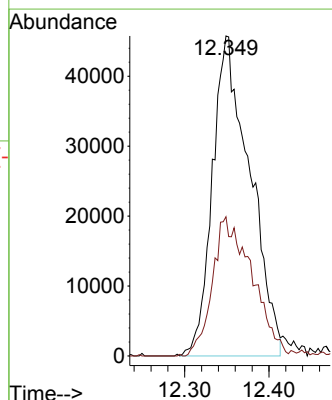
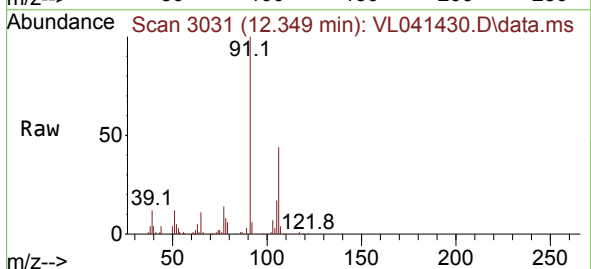
Acq: 29 Jul 2024 15:37

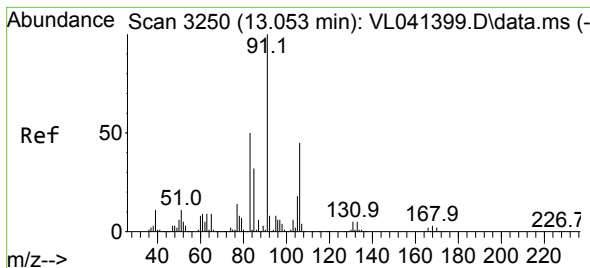
Tgt Ion: 91 Resp: 140844

Ion Ratio Lower Upper

91 100

106 46.6 36.3 54.5





#60

o-Xylene

Concen: 0.079 ppbv

RT: 13.066 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

Instrument :

MSVOA_L

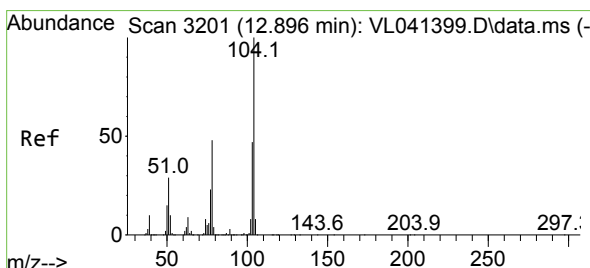
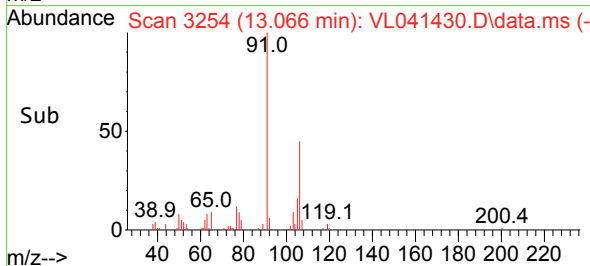
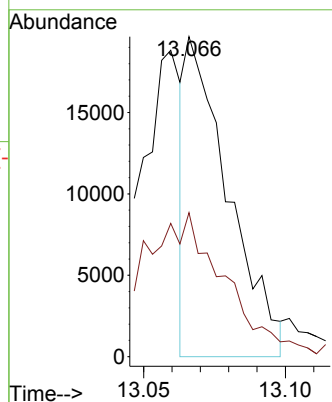
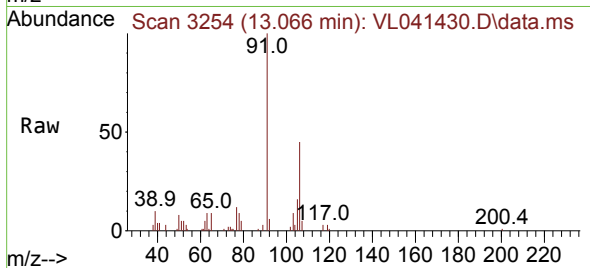
ClientSampleId :

Tgt Ion: 91 Resp: 20617

Ion Ratio Lower Upper

91 100

106 95.6 23.1 69.3#



#61

Styrene

Concen: 0.050 ppbv

RT: 12.905 min Scan# 3204

Delta R.T. 0.010 min

Lab File: VL041430.D

Acq: 29 Jul 2024 15:37

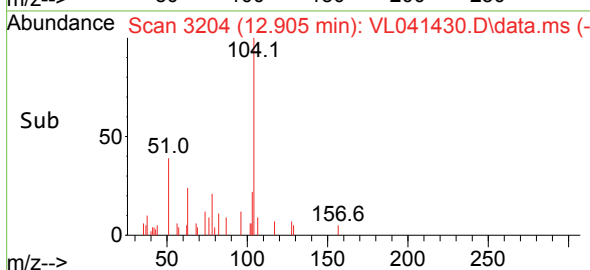
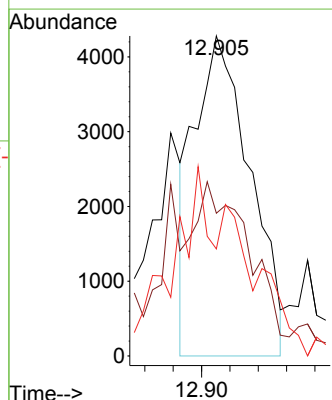
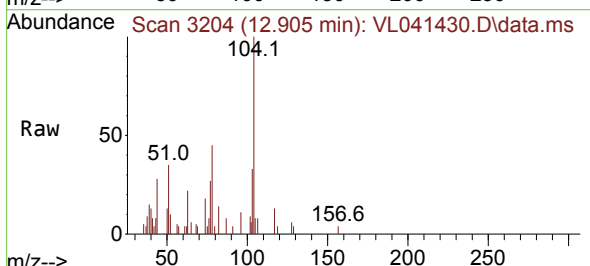
Tgt Ion: 104 Resp: 5873

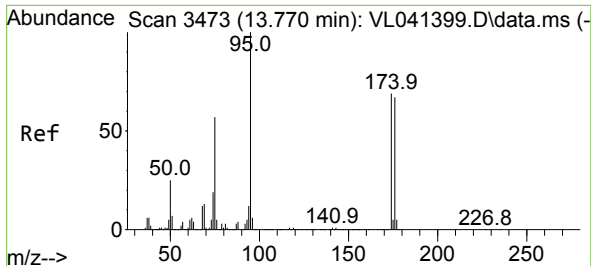
Ion Ratio Lower Upper

104 100

78 86.5 40.8 61.2#

103 80.5 38.2 57.4#

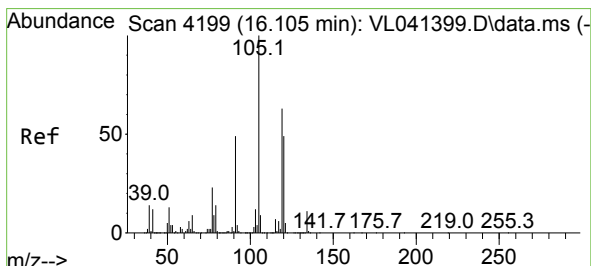
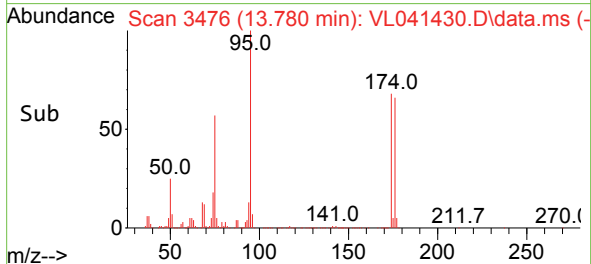
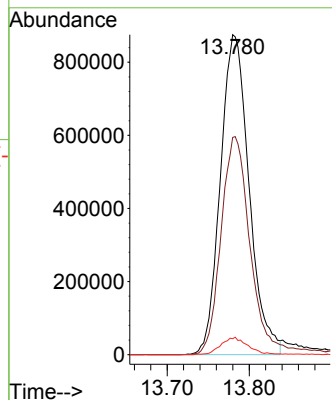
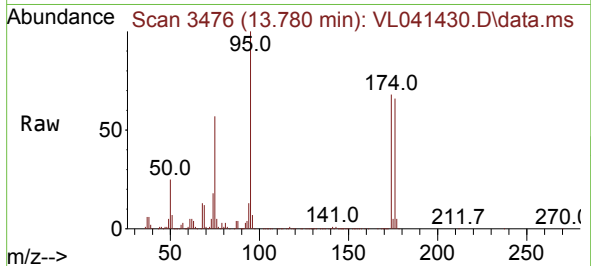




#68
1-Bromo-4-Fluorobenzene
Concen: 9.945 ppbv
RT: 13.780 min Scan# 3473
Delta R.T. 0.006 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 2130827
Ion Ratio Lower Upper
95 100
174 70.9 56.3 84.5
175 5.3 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 16.117 min Scan# 4203
Delta R.T. 0.010 min
Lab File: VL041430.D
Acq: 29 Jul 2024 15:37

Tgt Ion: 105 Resp: 11925
Ion Ratio Lower Upper
105 100
120 48.8 39.5 59.3
91 15.0 39.8 59.8#
77 17.9 18.2 27.4#

