

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041410.D
 Acq On : 26 Jul 2024 7:22
 Operator : SY/MD
 Sample : P3320-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 29 01:44:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 Response via : Initial Calibration

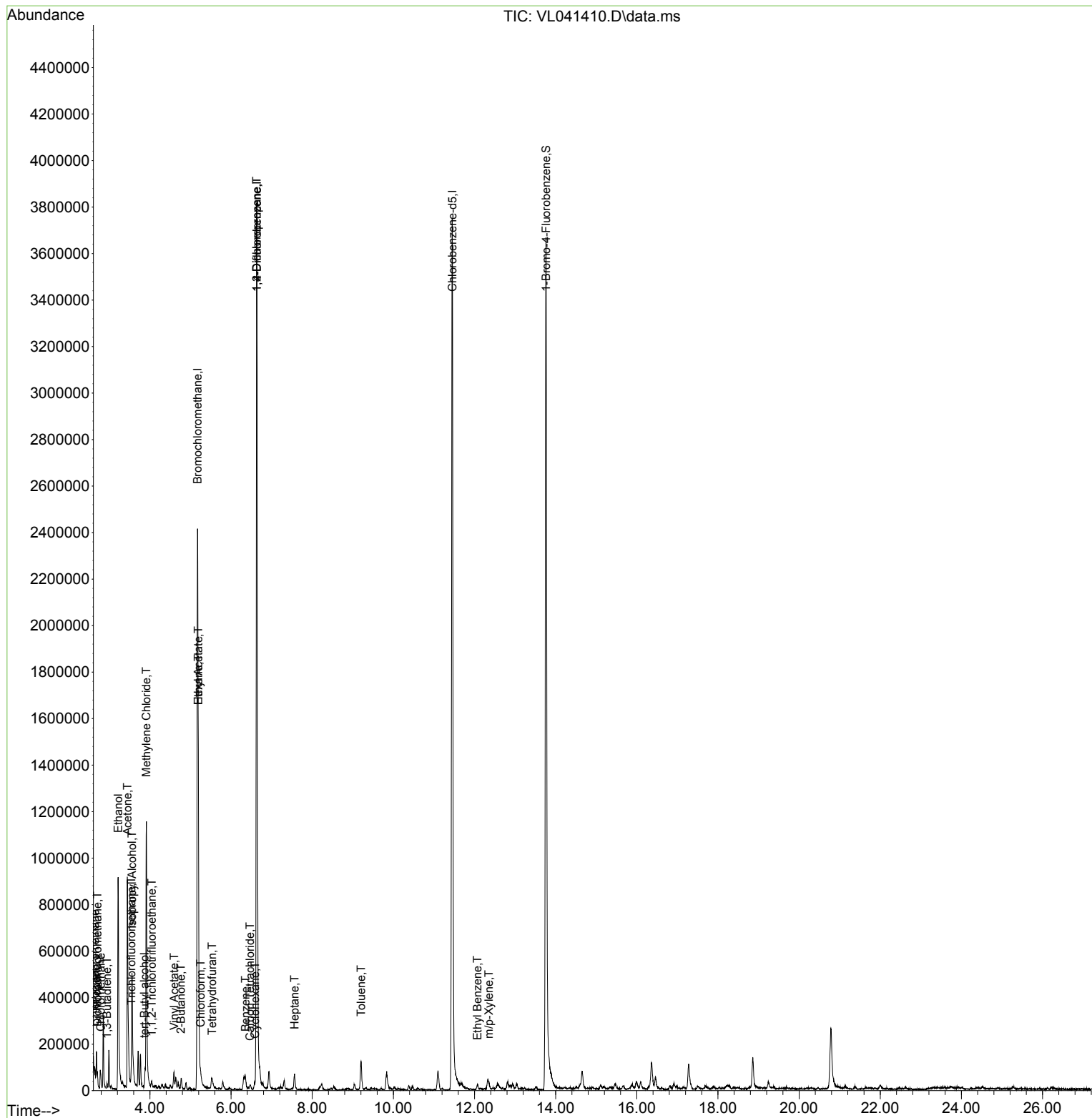
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.172	49	1084053	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2953868	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2551447	10.000	ppbv	#-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1843845	9.391	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	35069	0.188	ppbv	97
3) Chlorodifluoromethane	2.652	51	64721	0.502	ppbv	97
4) Chloromethane	2.793	50	34849	0.508	ppbv	88
9) Propene	2.681	41	29398	0.496	ppbv	87
10) Heptane	7.565	43	6959	0.052	ppbv #	27
11) Trichlorofluoromethane	3.542	101	35120	0.212	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	7158	0.060	ppbv	93
13) Ethanol	3.217	45	931387	175.779	ppbv	98
15) Acetone	3.446	43	925352	7.513	ppbv	99
16) 1,3-Butadiene	2.941	39	5296	0.080	ppbv #	51
17) tert-Butyl alcohol	3.864	59	5746	0.051	ppbv #	72
19) Isopropyl Alcohol	3.558	45	509647	7.078	ppbv #	97
20) Methylene Chloride	3.912	84	371853	8.096	ppbv	95
23) Vinyl Acetate	4.597	43	34702	0.369	ppbv #	55
25) Ethyl Acetate	5.192	43	316973	1.295	ppbv #	88
26) Hexane	5.192	57	303947	2.994	ppbv #	50
29) Chloroform	5.253	83	11542	0.070	ppbv	91
30) Cyclohexane	6.587	84	2710	0.033	ppbv #	1
34) 2-Butanone	4.767	43	24863	0.174	ppbv #	54
35) Carbon Tetrachloride	6.468	117	7819	0.048	ppbv #	75
36) Benzene	6.352	78	16644	0.077	ppbv	95
39) 1,2-Dichloropropane	6.632	63	717426	8.682	ppbv #	26
41) Tetrahydrofuran	5.536	42	3962	0.048	ppbv #	37
53) Toluene	9.204	91	44420	0.185	ppbv #	55
58) Ethyl Benzene	12.069	91	11055	0.038	ppbv	96
59) m/p-Xylene	12.352	91	11678	0.046	ppbv #	31

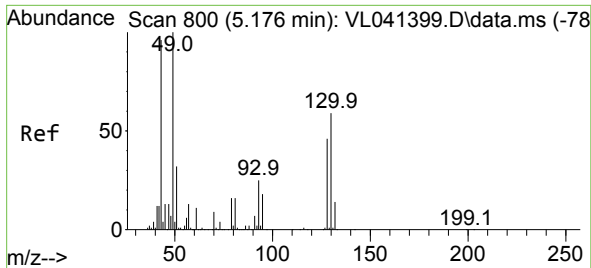
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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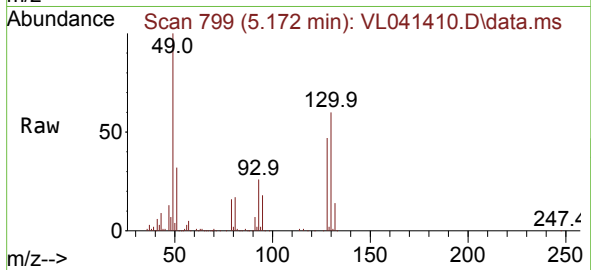
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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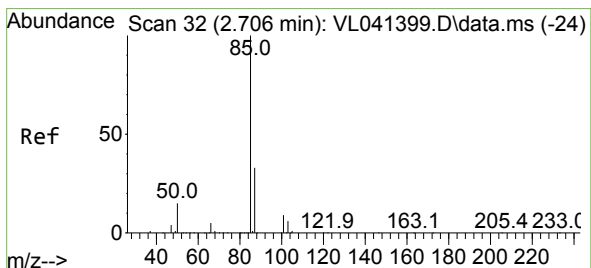
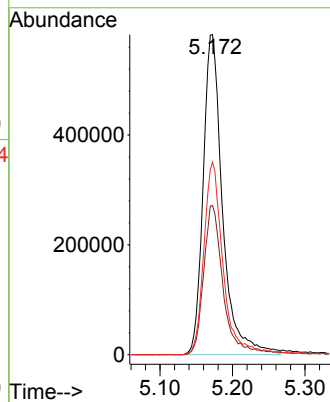
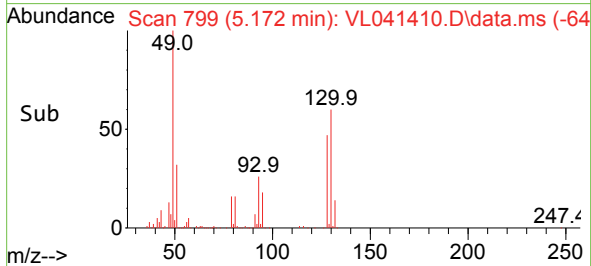


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 79
 Delta R.T. -0.004 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Instrument :
 MSVOA_L
 ClientSampleId :

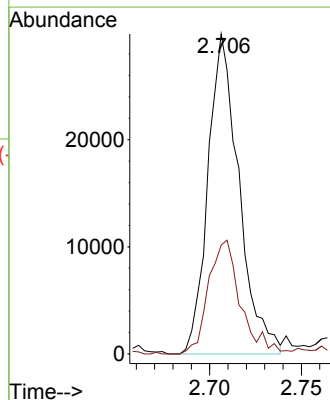
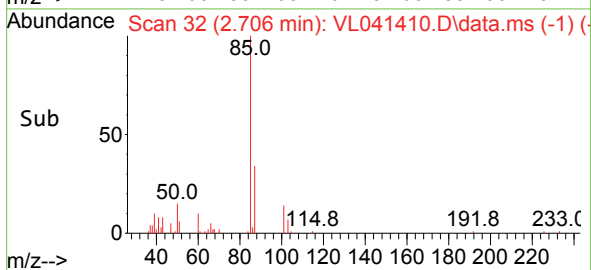
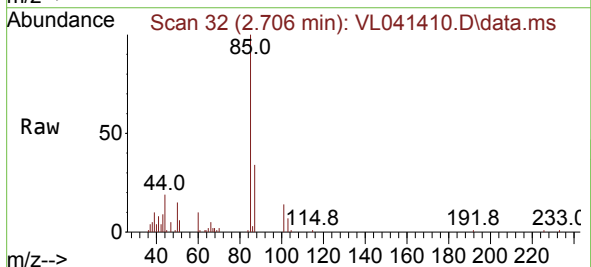


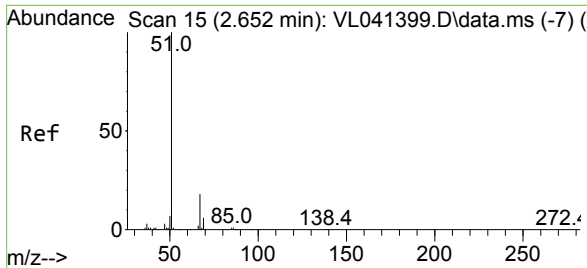
Tgt Ion: 49 Resp: 1084053
 Ion Ratio Lower Upper
 49 100
 128 47.3 23.8 71.4
 130 61.1 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.188 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion: 85 Resp: 35069
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.0 39.0

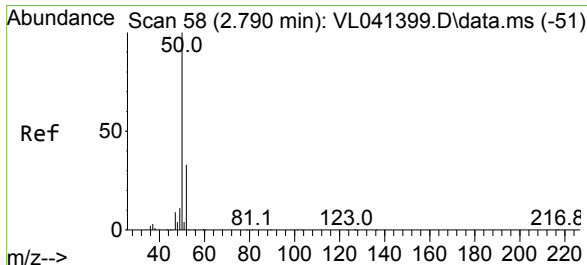
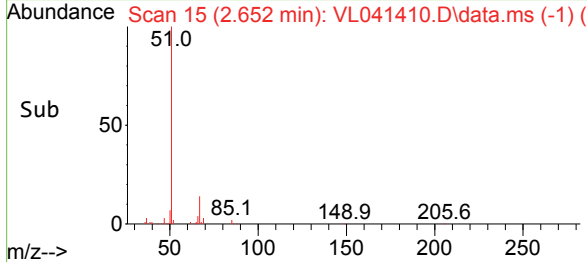
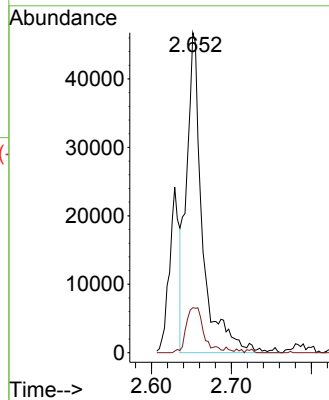
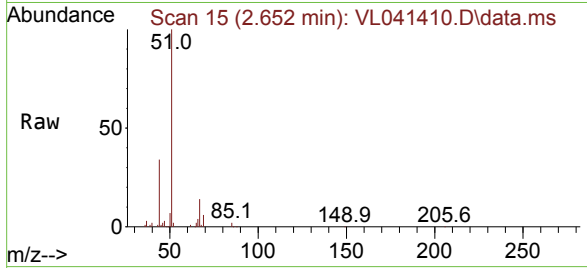




#3
Chlorodifluoromethane
Concen: 0.502 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

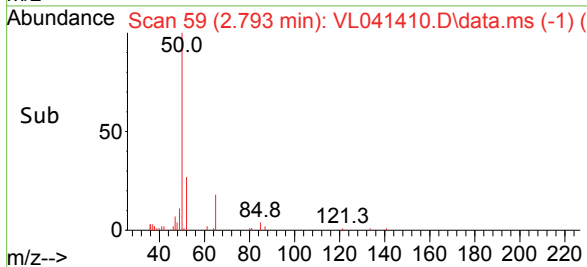
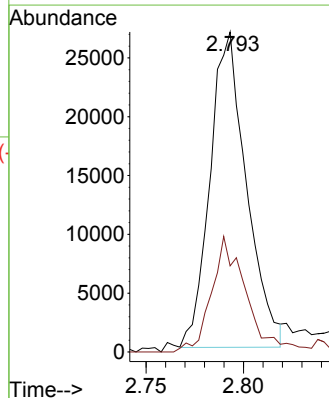
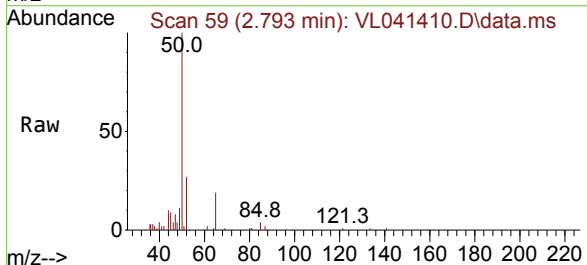
Instrument :
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ClientSampleId :

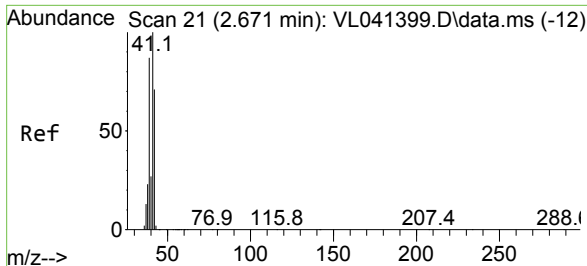
Tgt Ion: 51 Resp: 64721
Ion Ratio Lower Upper
51 100
67 16.7 14.5 21.7



#4
Chloromethane
Concen: 0.508 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 50 Resp: 34849
Ion Ratio Lower Upper
50 100
52 26.1 26.1 39.1

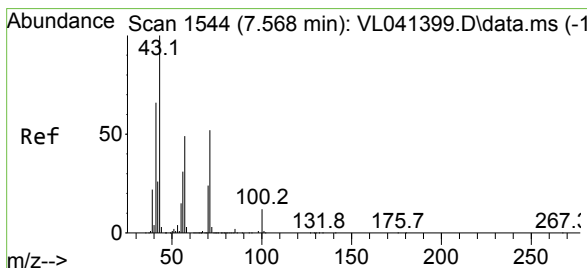
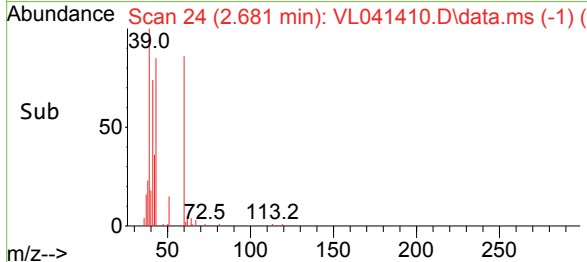
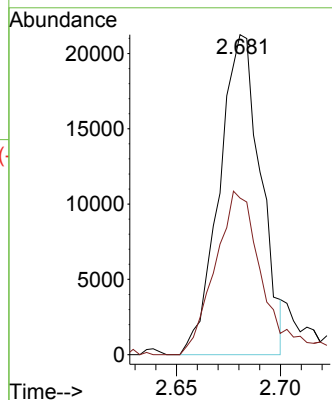
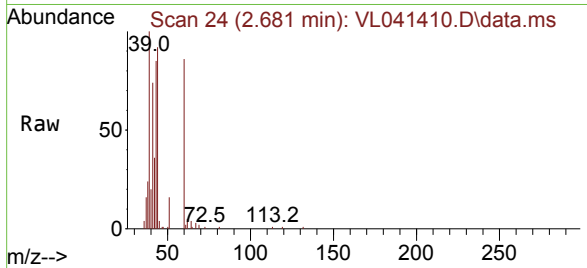




#9
 Propene
 Concen: 0.496 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. 0.010 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

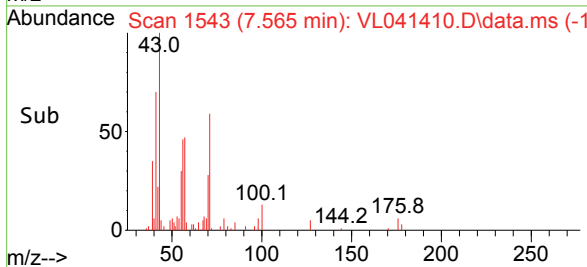
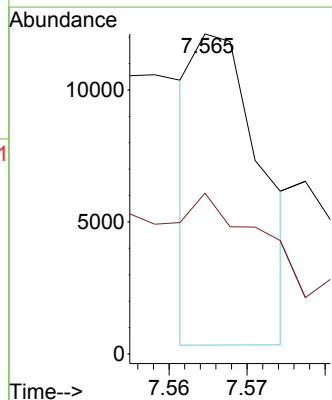
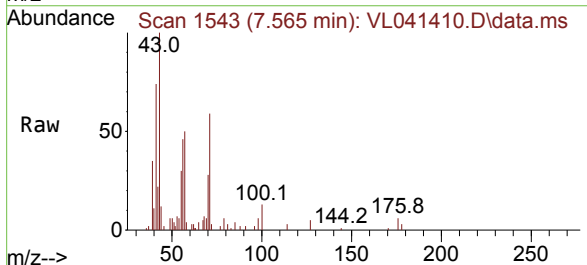
Instrument :
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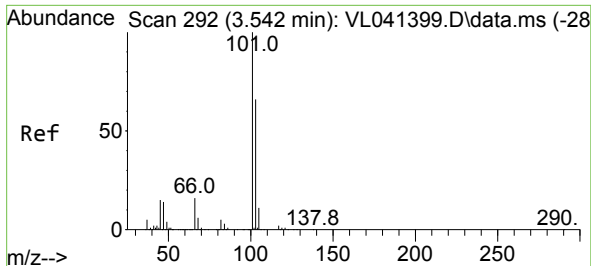
Tgt Ion: 41 Resp: 29398
 Ion Ratio Lower Upper
 41 100
 42 59.6 55.9 83.9



#10
 Heptane
 Concen: 0.052 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. -0.003 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion: 43 Resp: 6959
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#

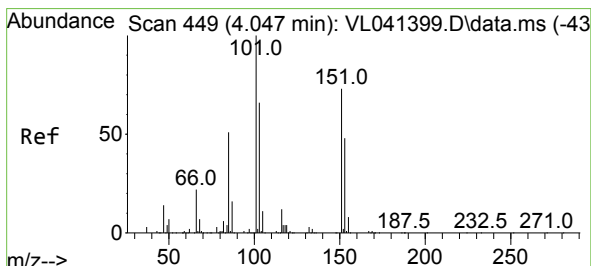
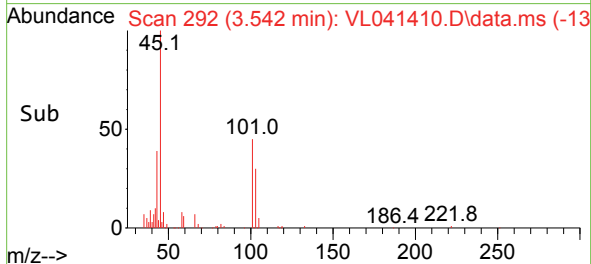
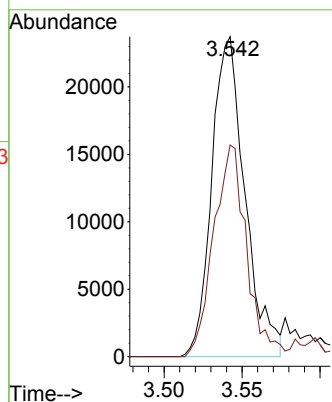
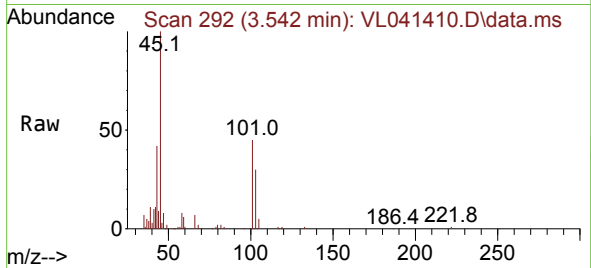




#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

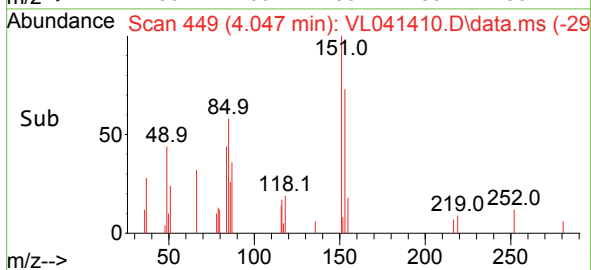
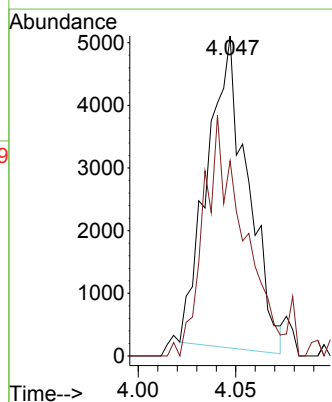
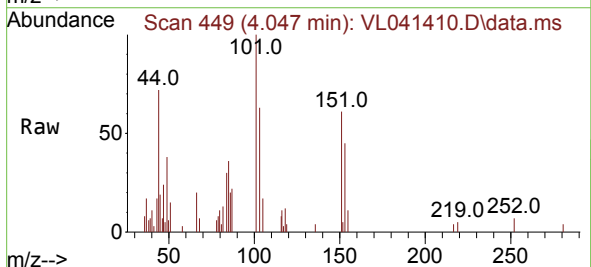
Instrument :
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 ClientSampleId :

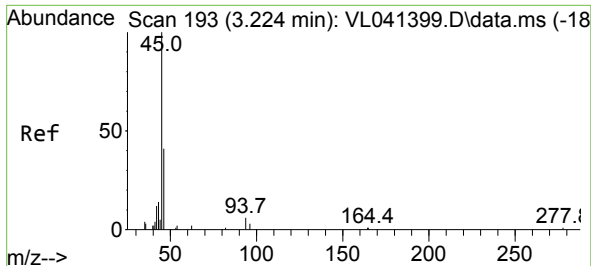
Tgt Ion:101 Resp: 35120
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion:101 Resp: 7158
 Ion Ratio Lower Upper
 101 100
 151 80.1 59.4 89.2

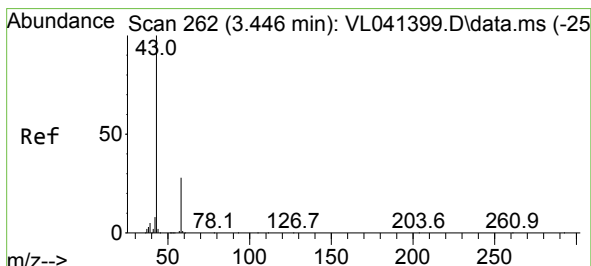
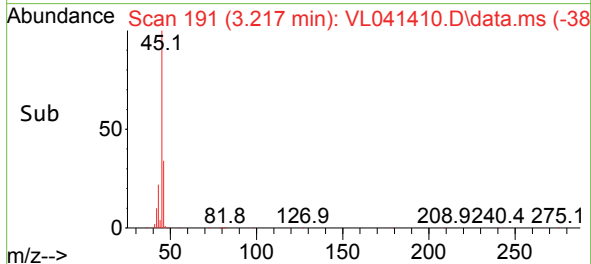
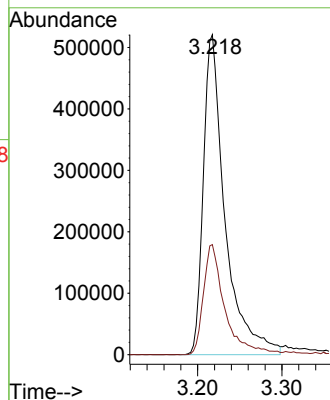
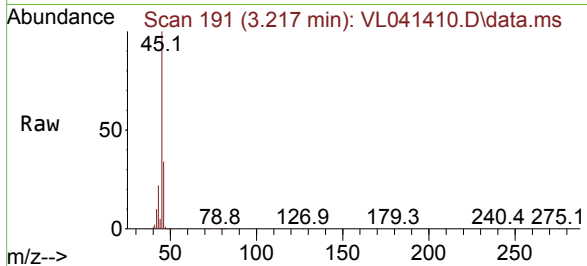




#13
Ethanol
Concen: 175.779 ppbv
RT: 3.217 min Scan# 191
Delta R.T. -0.007 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

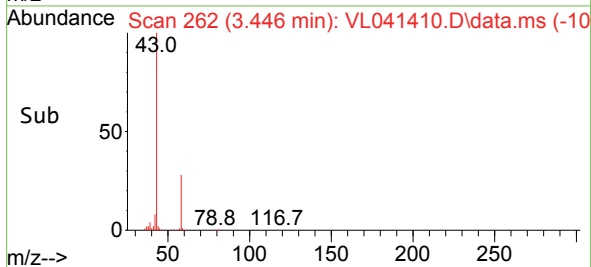
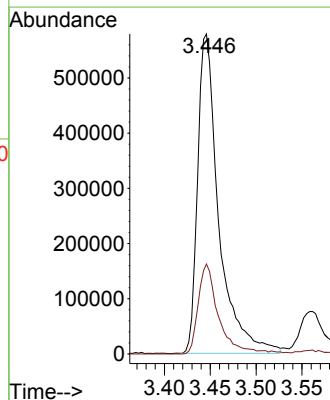
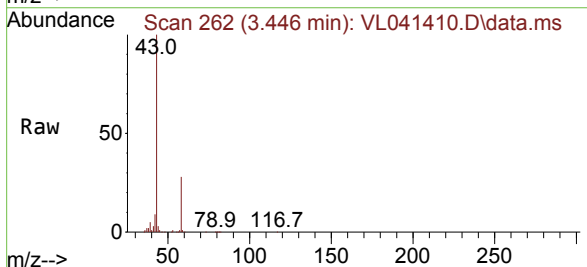
Instrument :
MSVOA_L
ClientSampleId :

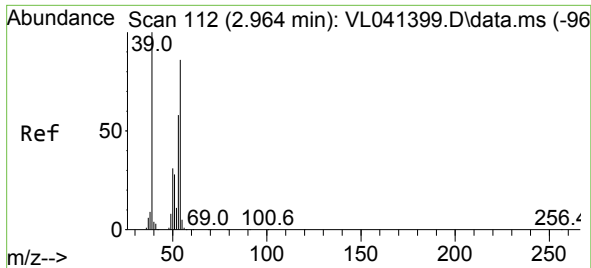
Tgt Ion: 45 Resp: 931387
Ion Ratio Lower Upper
45 100
46 34.7 13.4 53.4



#15
Acetone
Concen: 7.513 ppbv
RT: 3.446 min Scan# 262
Delta R.T. -0.000 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 43 Resp: 925352
Ion Ratio Lower Upper
43 100
58 27.4 21.4 32.2

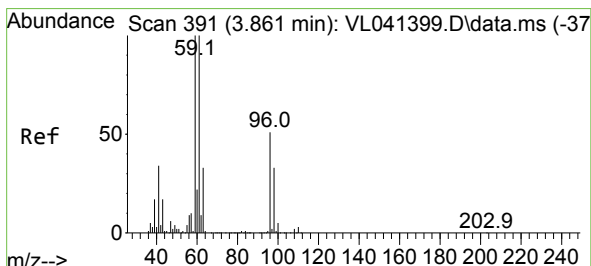
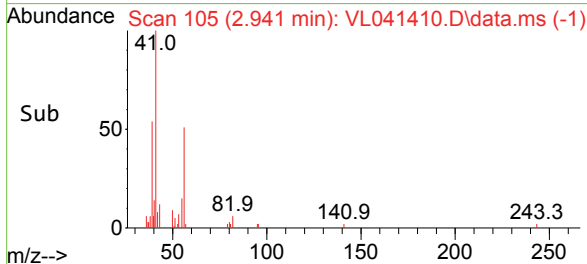
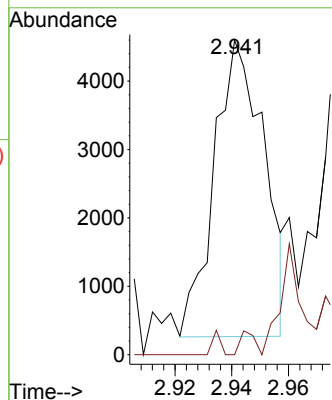
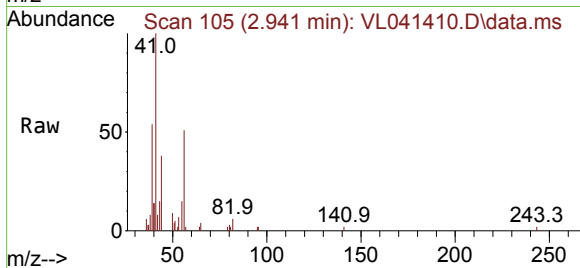




#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 2.941 min Scan# 112
Delta R.T. -0.023 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

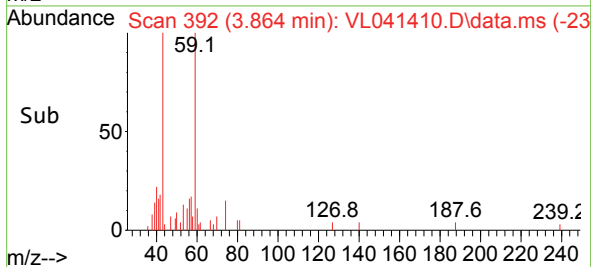
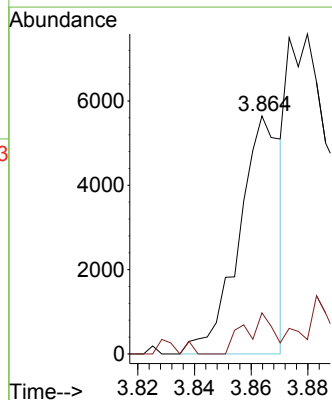
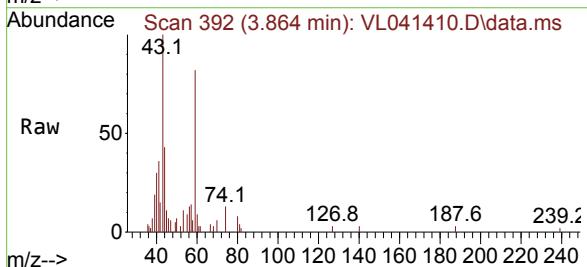
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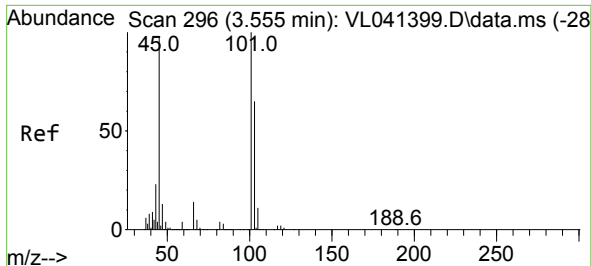
Tgt Ion: 39 Resp: 5296
Ion Ratio Lower Upper
39 100
54 35.2 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.051 ppbv
RT: 3.864 min Scan# 392
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 59 Resp: 5746
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

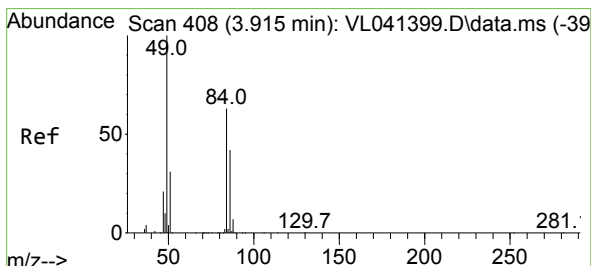
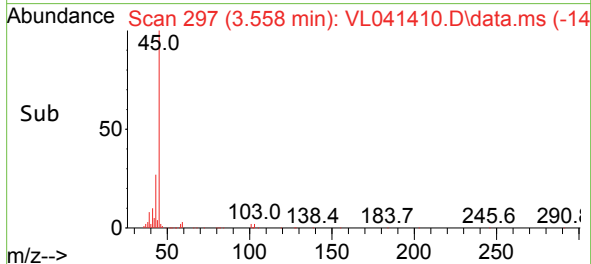
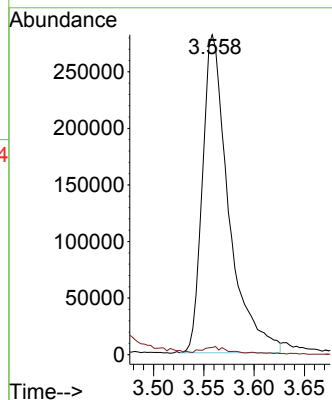
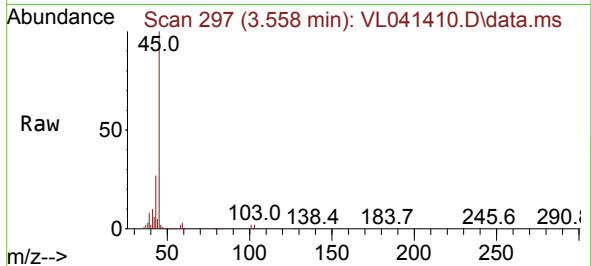




#19
Isopropyl Alcohol
Concen: 7.078 ppbv
RT: 3.558 min Scan# 296
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

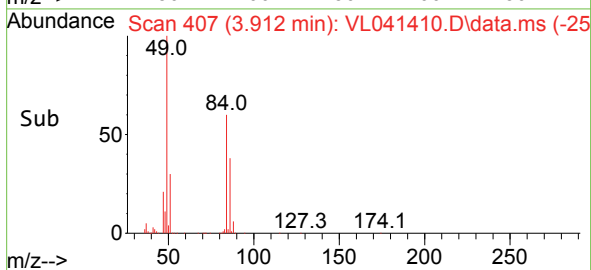
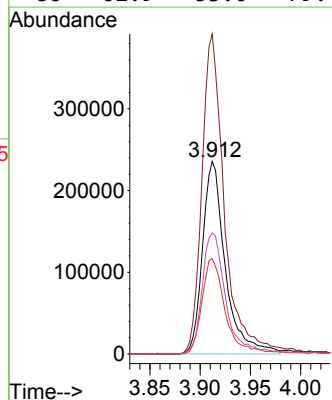
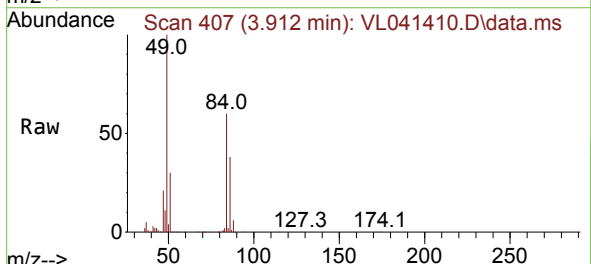
Instrument :
MSVOA_L
ClientSampleId :

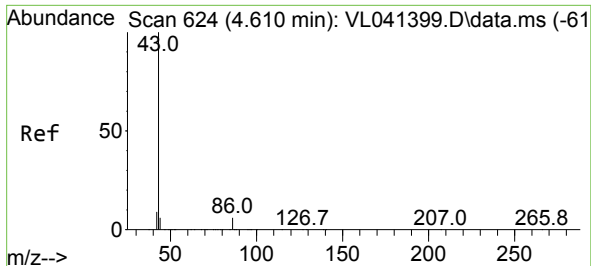
Tgt Ion: 45 Resp: 509647
Ion Ratio Lower Upper
45 100
58 3.5 1.9 2.9#



#20
Methylene Chloride
Concen: 8.096 ppbv
RT: 3.912 min Scan# 407
Delta R.T. -0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 84 Resp: 371853
Ion Ratio Lower Upper
84 100
49 166.1 126.6 190.0
51 49.6 38.6 58.0
86 62.9 53.0 79.4

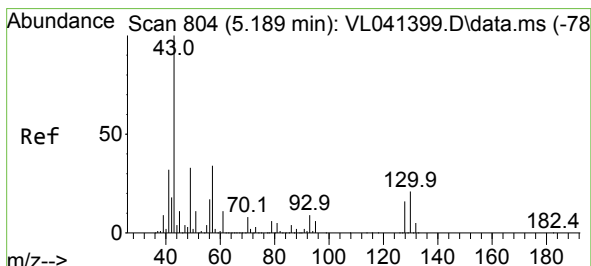
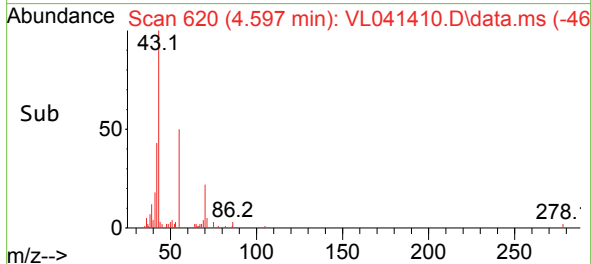
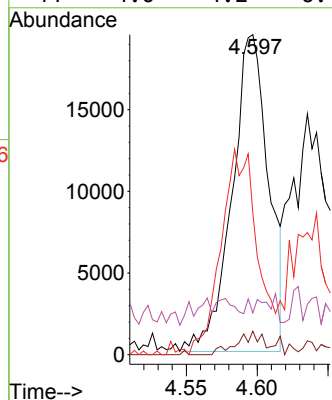
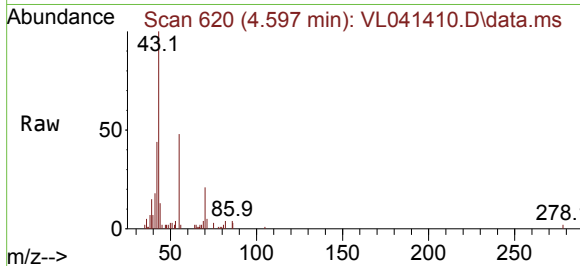




#23
 Vinyl Acetate
 Concen: 0.369 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

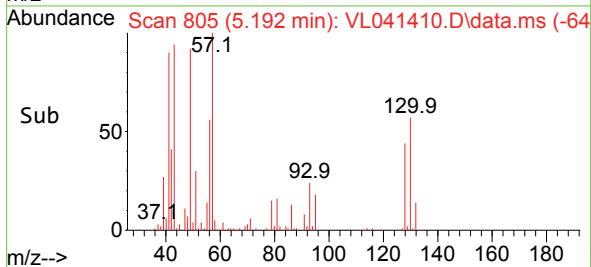
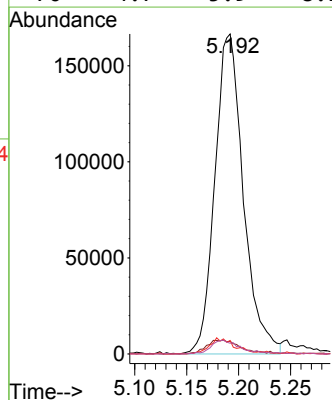
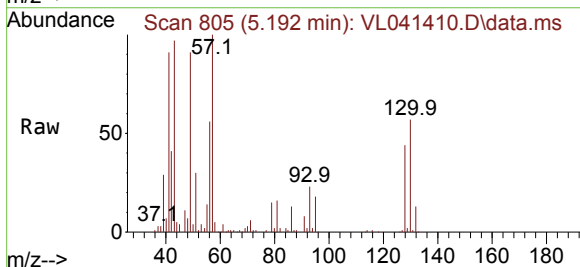
Instrument :
 MSVOA_L
 ClientSampleId :

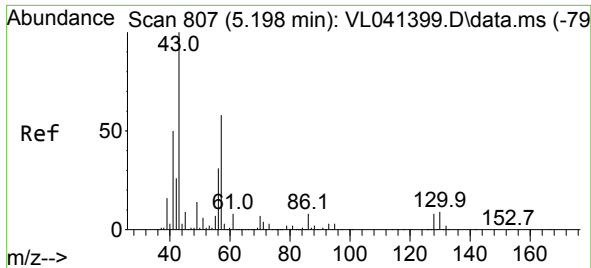
Tgt Ion: 43	Resp: 34702
Ion Ratio	Lower Upper
43 100	
86 7.4	4.6 6.8#
42 43.1	7.9 11.9#
44 4.0	4.2 6.4#



#25
 Ethyl Acetate
 Concen: 1.295 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.003 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

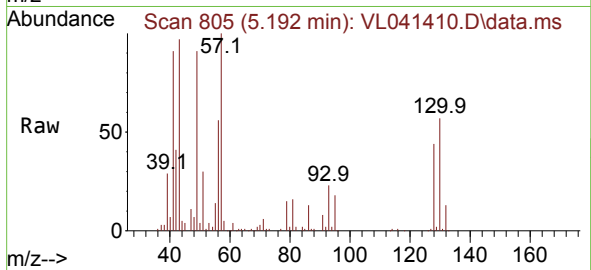
Tgt	Ion: 43	Resp:	316973
Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.5	12.7#
61	5.0	8.0	12.0#
70	4.7	5.9	8.9#



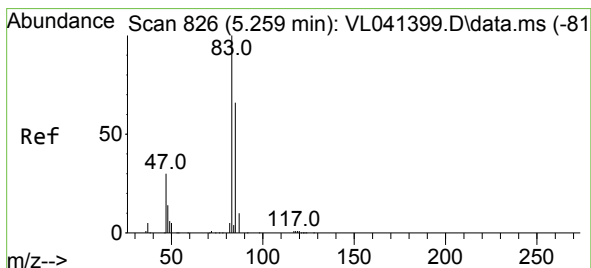
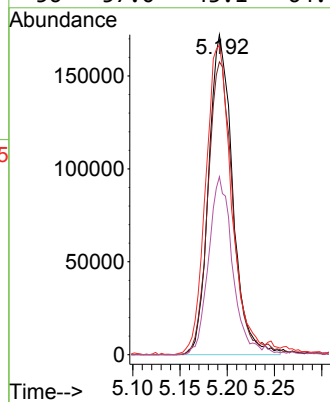
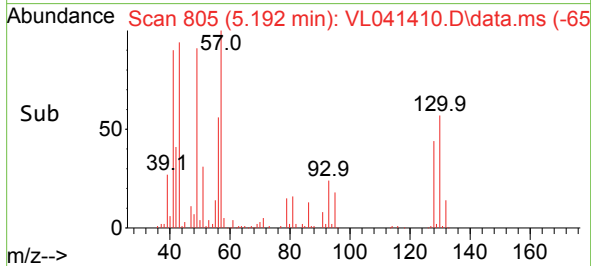


#26
Hexane
Concen: 2.994 ppbv
RT: 5.192 min Scan# 805
Delta R.T. -0.006 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Instrument :
MSVOA_L
ClientSampleId :

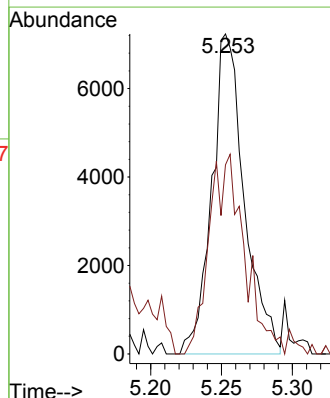
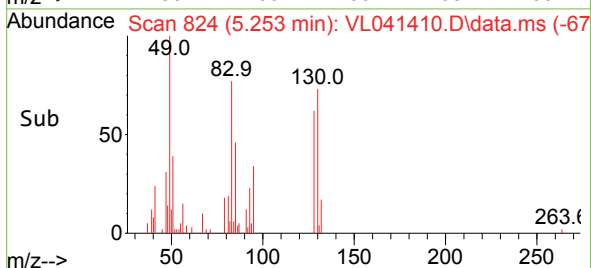
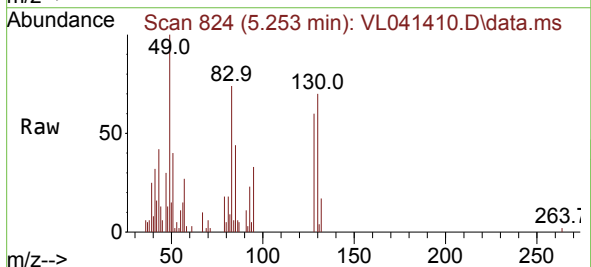


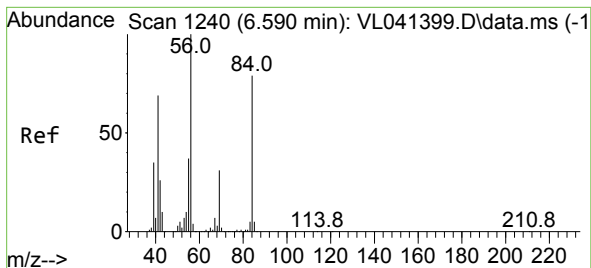
Tgt Ion: 57 Resp: 303947
Ion Ratio Lower Upper
57 100
41 96.2 74.0 111.0
43 108.0 193.6 290.4#
56 57.0 43.1 64.7



#29
Chloroform
Concen: 0.070 ppbv
RT: 5.253 min Scan# 824
Delta R.T. -0.007 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 83 Resp: 11542
Ion Ratio Lower Upper
83 100
85 59.1 53.1 79.7





#30

Cyclohexane

Concen: 0.033 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. -0.003 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

ClientSampleId :

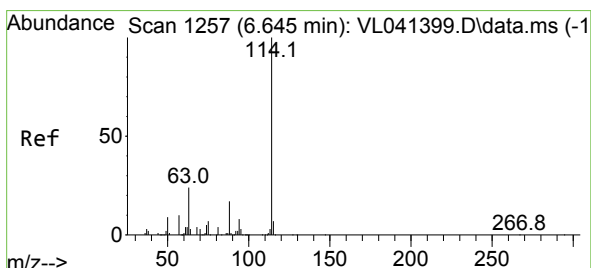
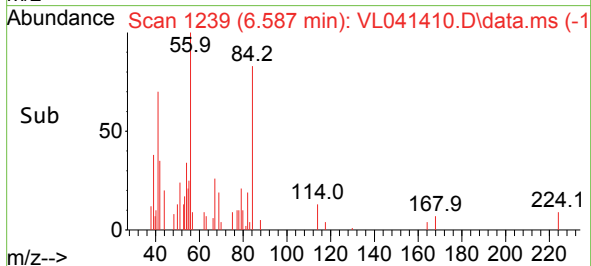
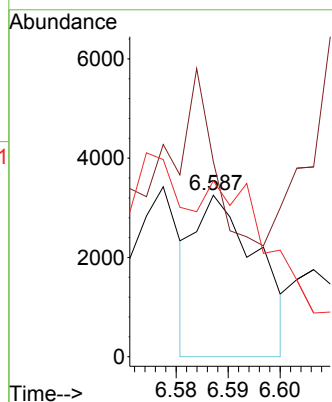
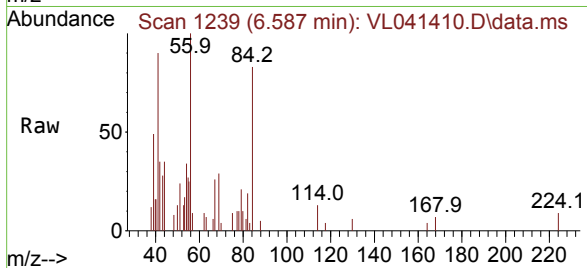
Tgt Ion: 84 Resp: 2710

Ion Ratio Lower Upper

84 100

56 270.0 111.2 166.8#

41 0.0 70.3 105.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. -0.010 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

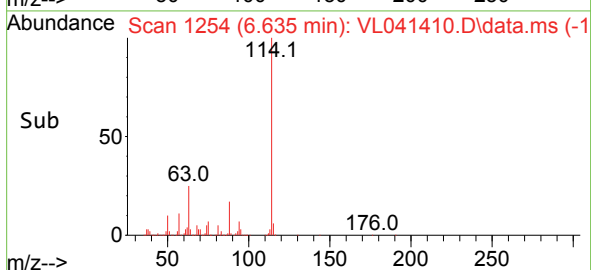
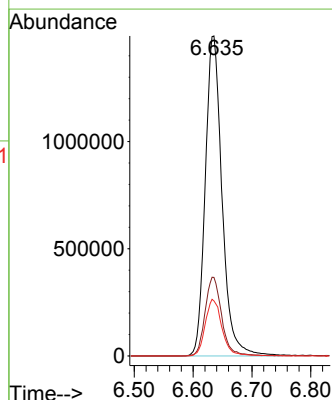
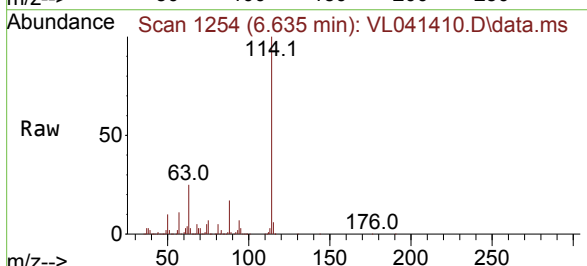
Tgt Ion: 114 Resp: 2953868

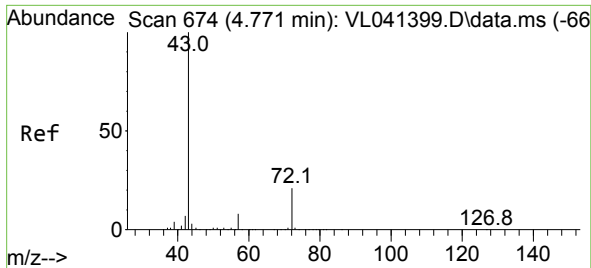
Ion Ratio Lower Upper

114 100

63 24.6 20.3 30.5

88 17.7 14.3 21.5

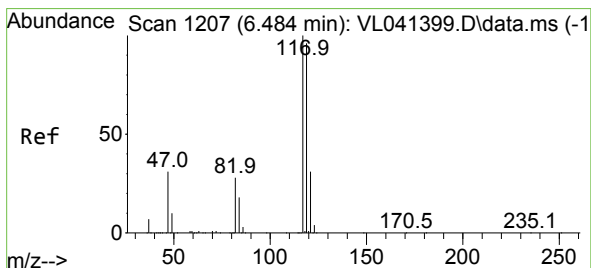
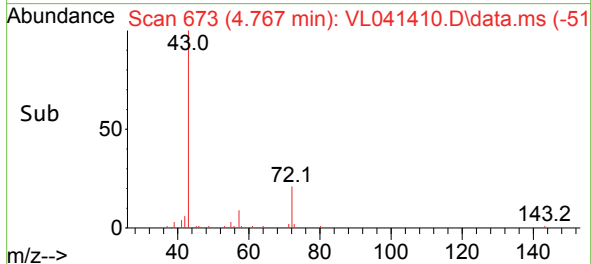
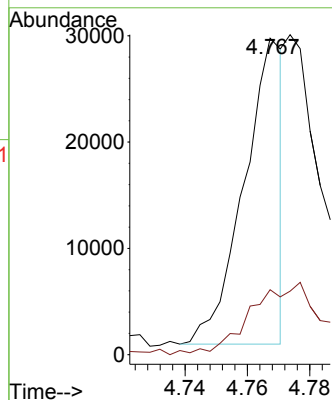
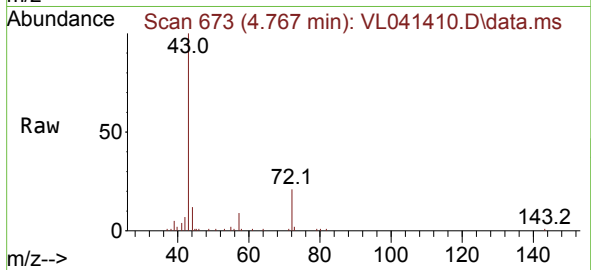




#34
2-Butanone
Concen: 0.174 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

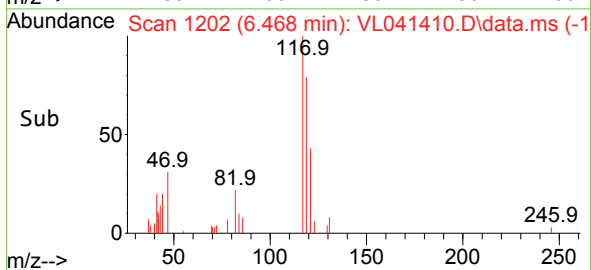
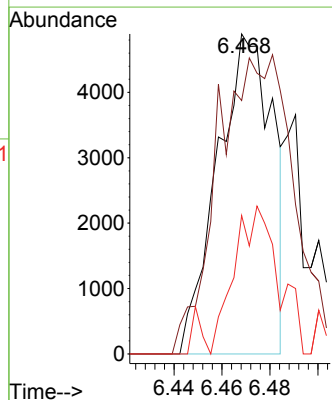
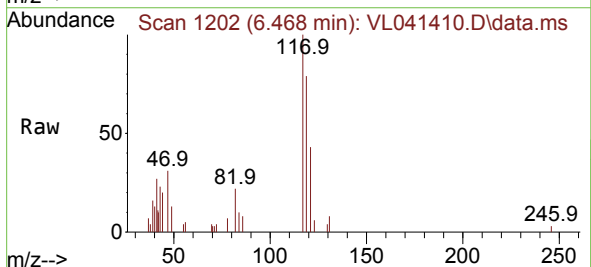
Instrument :
MSVOA_L
ClientSampleId :

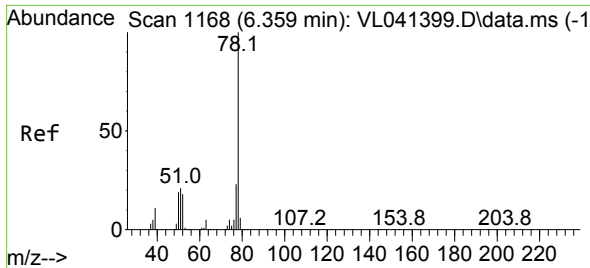
Tgt Ion: 43 Resp: 24863
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 6.468 min Scan# 1202
Delta R.T. -0.016 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 117 Resp: 7819
Ion Ratio Lower Upper
117 100
119 70.1 76.6 115.0#
121 43.2 25.1 37.7#

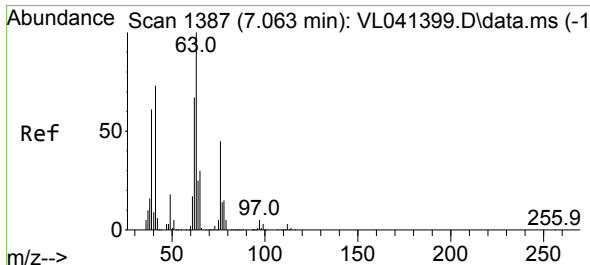
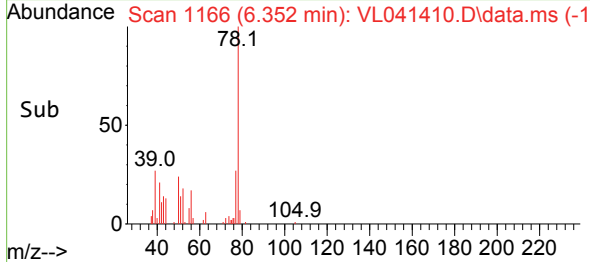
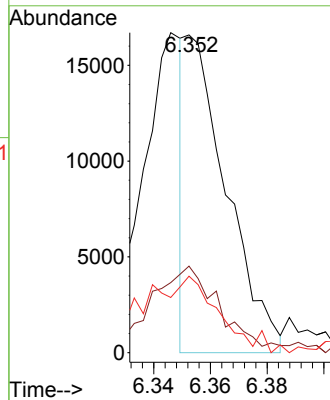
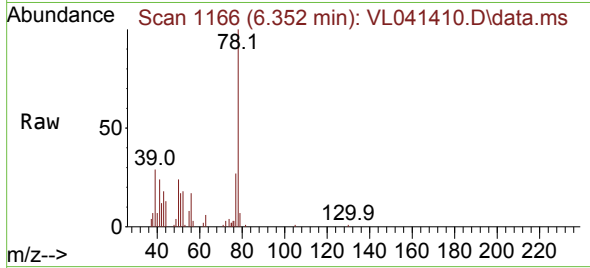




#36
Benzene
Concen: 0.077 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.007 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

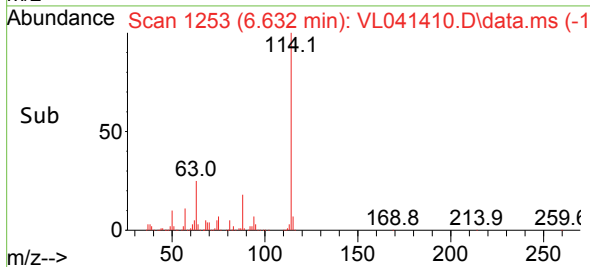
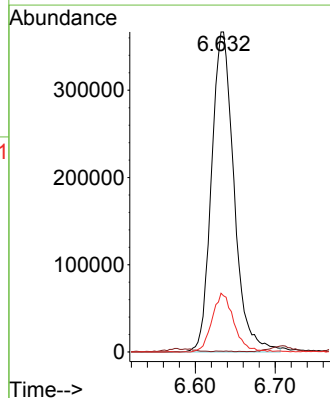
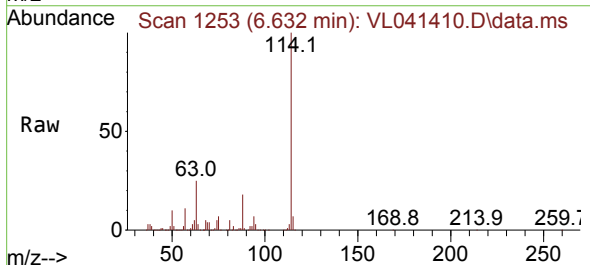
Instrument :
MSVOA_L
ClientSampleId :

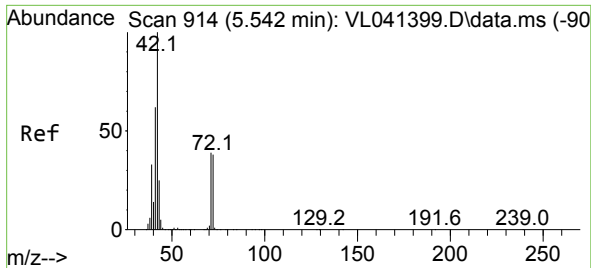
Tgt Ion: 78 Resp: 16644
Ion Ratio Lower Upper
78 100
77 26.4 18.1 27.1
50 20.4 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.682 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.431 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 63 Resp: 717426
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 18.4 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.048 ppbv

RT: 5.536 min Scan# 914

Delta R.T. -0.006 min

Lab File: VL041410.D

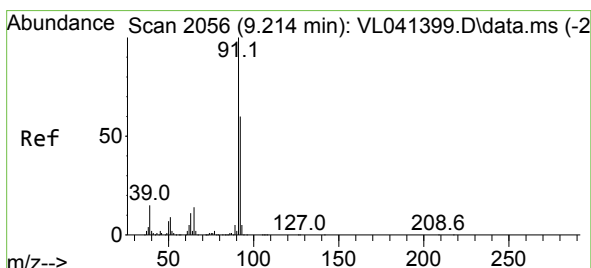
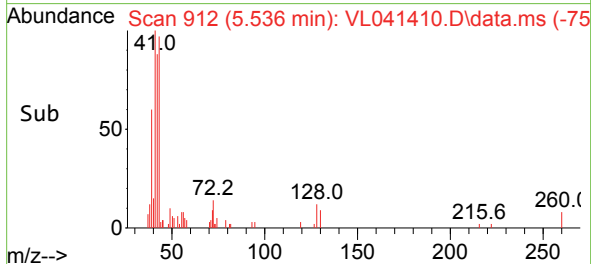
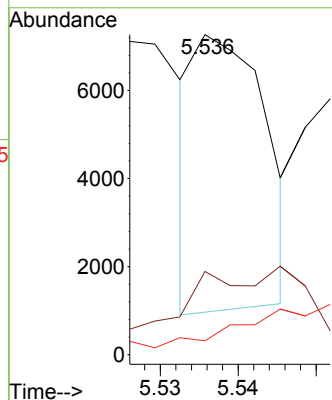
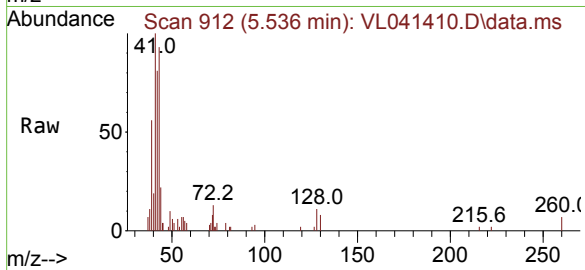
Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	42	Resp:	3962
Ion Ratio	Lower	Upper	
42	100		
72	0.0	31.2	46.8#
71	0.0	30.5	45.7#



#53

Toluene

Concen: 0.185 ppbv

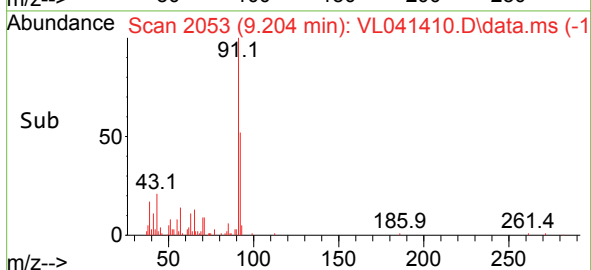
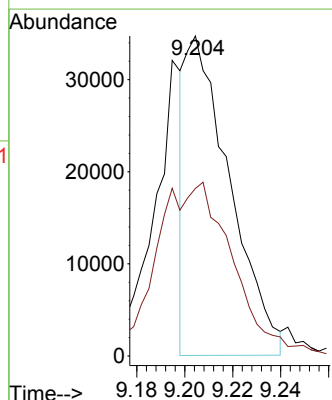
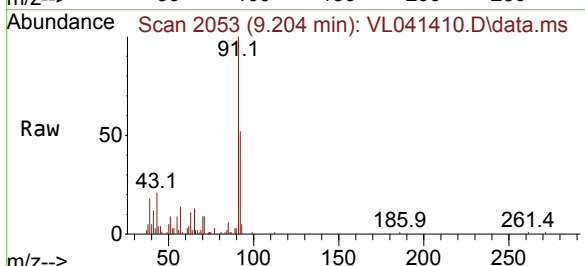
RT: 9.204 min Scan# 2053

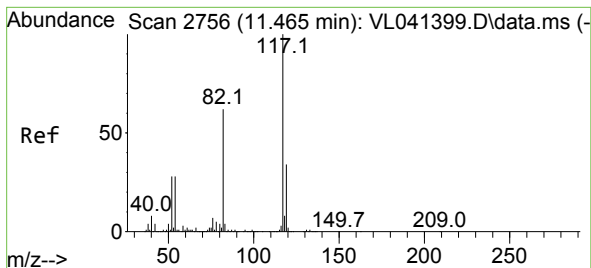
Delta R.T. -0.010 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

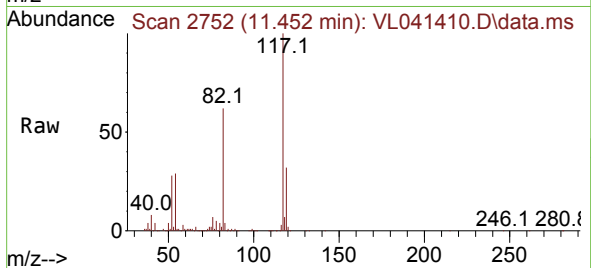
Tgt Ion:	91	Resp:	44420
Ion Ratio	Lower	Upper	
91	100		
92	95.3	48.7	73.1#



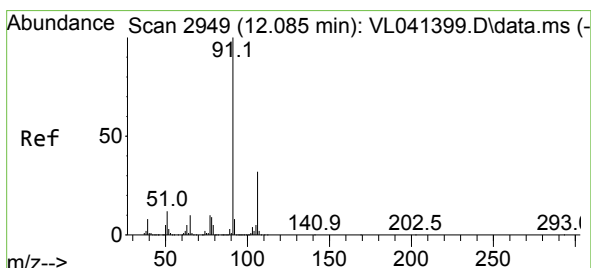
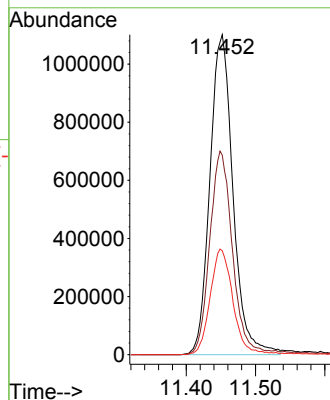
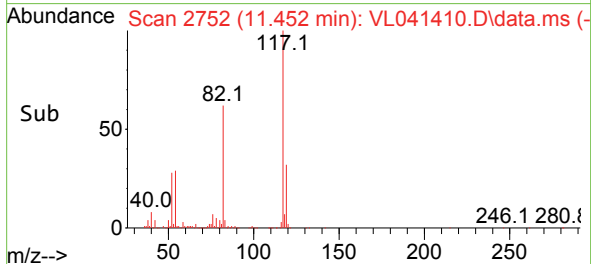


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 211
Delta R.T. -0.013 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

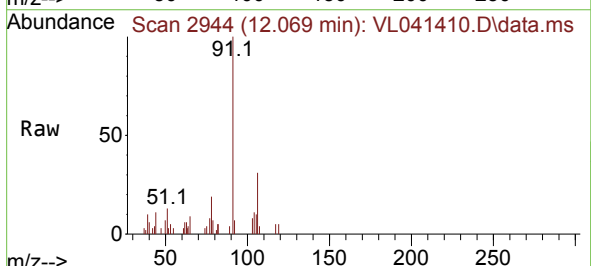
Instrument :
MSVOA_L
ClientSampleId :



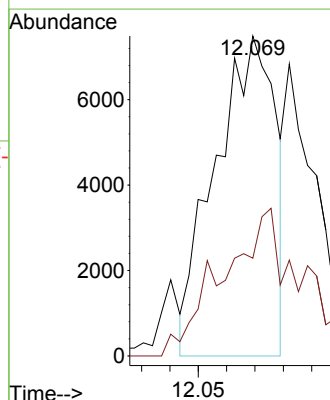
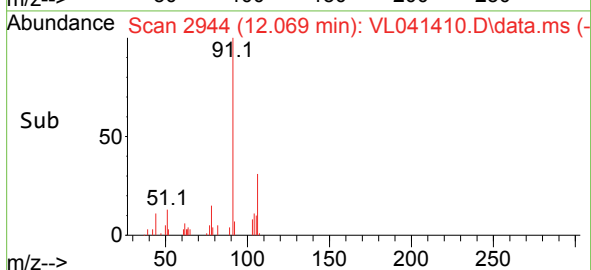
Tgt Ion:117 Resp: 2551447
Ion Ratio Lower Upper
117 100
82 63.6 51.0 76.6
119 33.2 45.2 67.8#

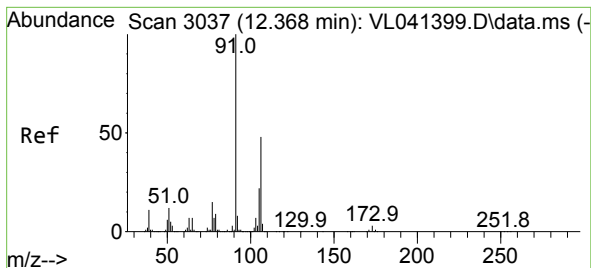


#58
Ethyl Benzene
Concen: 0.038 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. -0.016 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22



Tgt Ion: 91 Resp: 11055
Ion Ratio Lower Upper
91 100
106 30.0 25.8 38.8





#59

m/p-Xylene

Concen: 0.046 ppbv

RT: 12.352 min Scan# 3032

Delta R.T. -0.016 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

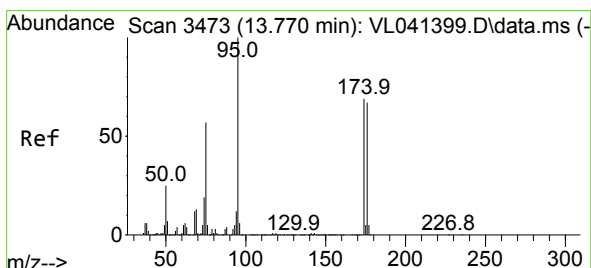
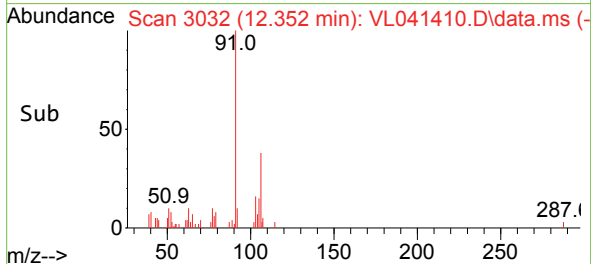
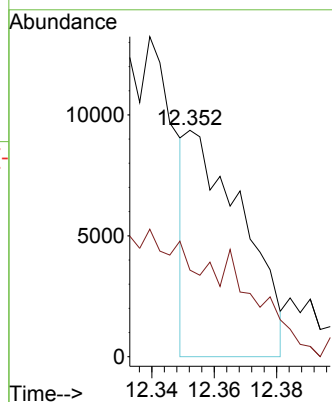
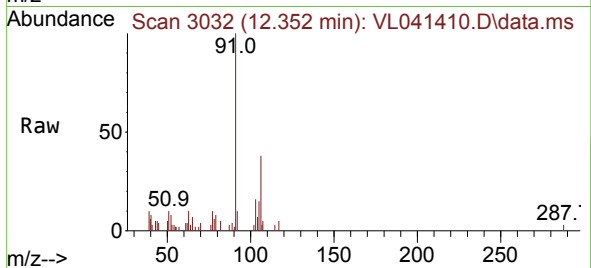
ClientSampleId :

Tgt Ion: 91 Resp: 11678

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.391 ppbv

RT: 13.764 min Scan# 3471

Delta R.T. -0.007 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Tgt Ion: 95 Resp: 1843845

Ion Ratio Lower Upper

95 100

174 72.7 56.3 84.5

175 5.2 4.0 6.0

