

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041440.D
 Acq On : 29 Jul 2024 22:28
 Operator : SY/MD
 Sample : P3342-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:55:25 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)

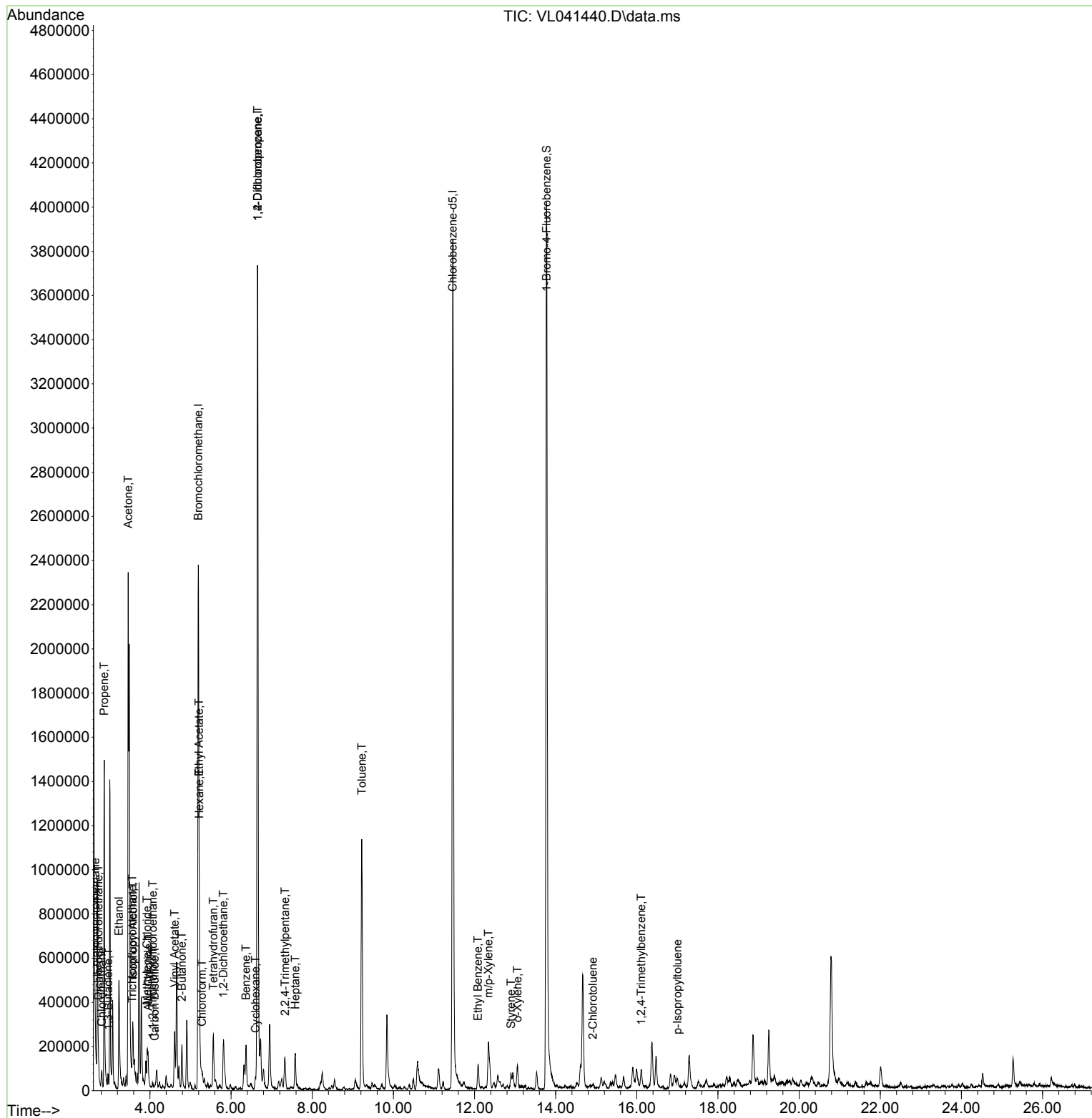
Internal Standards						
1) Bromochloromethane	5.192	49	1063656	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.652	114	2876090	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2629445	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2029848	10.031	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	64093	0.350	ppbv	100
3) Chlorodifluoromethane	2.655	51	93082	0.735	ppbv #	73
4) Chloromethane	2.813	50	52126	0.774	ppbv	94
9) Propene	2.874	41	344167	5.917	ppbv	93
10) Heptane	7.584	43	66025	0.505	ppbv	95
11) Trichlorofluoromethane	3.565	101	37781	0.232	ppbv	90
12) 1,1,2-Trichlorotrifluo...	4.070	101	4692	0.040	ppbv #	47
13) Ethanol	3.237	45	531648	102.261	ppbv	92
15) Acetone	3.465	43	2841708	23.514	ppbv	94
16) 1,3-Butadiene	2.970	39	11844	0.183	ppbv #	10
19) Isopropyl Alcohol	3.581	45	247059	3.497	ppbv #	93
20) Methylene Chloride	3.931	84	49108	1.090	ppbv	93
21) Allyl Chloride	3.957	41	7709	0.097	ppbv #	1
23) Vinyl Acetate	4.610	43	142846	1.548	ppbv #	18
25) Ethyl Acetate	5.211	43	233732	0.974	ppbv #	91
26) Hexane	5.214	57	200061	2.009	ppbv #	55
27) Carbon Disulfide	4.121	76	8377	0.072	ppbv #	41
29) Chloroform	5.279	83	20209	0.124	ppbv	96
30) Cyclohexane	6.603	84	7702	0.095	ppbv #	1
34) 2-Butanone	4.787	43	220229	1.583	ppbv	97
36) Benzene	6.369	78	146707	0.698	ppbv	99
37) 1,2-Dichloroethane	5.809	62	55817	0.475	ppbv #	95
39) 1,2-Dichloropropane	6.652	63	704909	8.761	ppbv #	25
41) Tetrahydrofuran	5.565	42	138999	1.747	ppbv	98
44) 2,2,4-Trimethylpentane	7.330	57	99643	0.284	ppbv #	76
53) Toluene	9.221	91	914590	3.907	ppbv	100
58) Ethyl Benzene	12.085	91	50791	0.168	ppbv	95
59) m/p-Xylene	12.343	91	220628	0.843	ppbv	95
60) o-Xylene	13.056	91	80261	0.324	ppbv	98
61) Styrene	12.899	104	24438	0.219	ppbv #	50
69) p-Isopropyltoluene	16.998	119	26925	0.069	ppbv #	87
71) 2-Chlorotoluene	14.915	91	10194	0.037	ppbv #	45
74) 1,2,4-Trimethylbenzene	16.105	105	38298	0.131	ppbv #	61

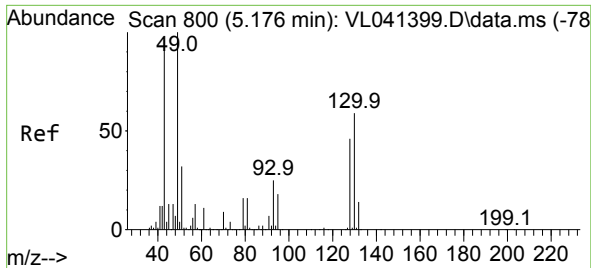
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
Data File : VL041440.D
Acq On : 29 Jul 2024 22:28
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Sample : P3342-05DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

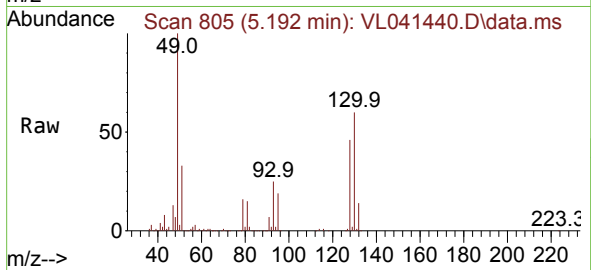
Quant Time: Jul 30 02:55:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
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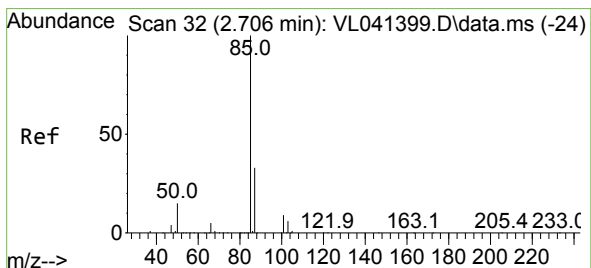
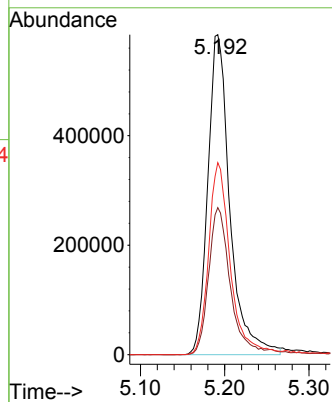
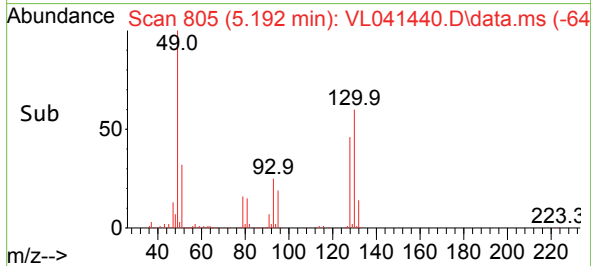


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Instrument :
 MSVOA_L
 ClientSampleId :

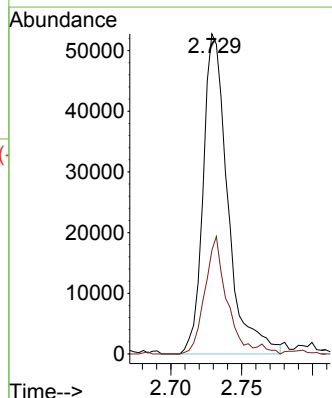
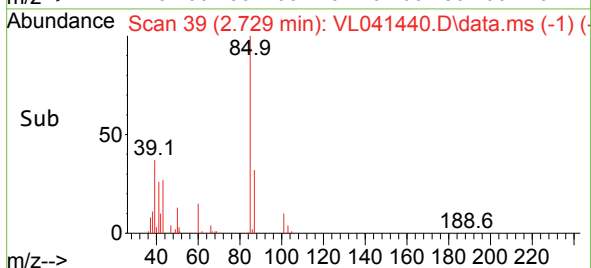
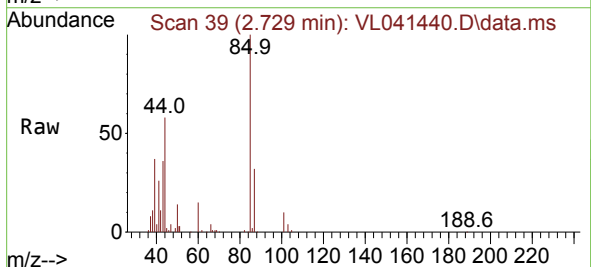


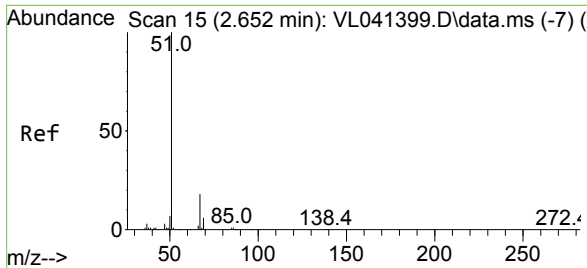
Tgt Ion: 49 Resp: 1063656
 Ion Ratio Lower Upper
 49 100
 128 46.8 23.8 71.4
 130 60.2 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.350 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.019 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Tgt Ion: 85 Resp: 64093
 Ion Ratio Lower Upper
 85 100
 87 32.4 26.0 39.0

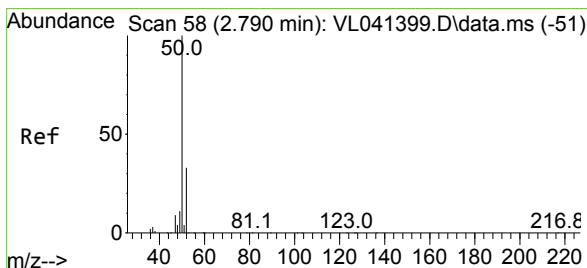
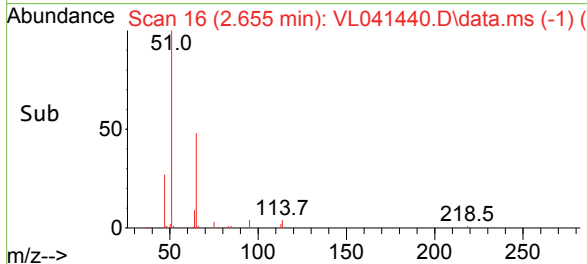
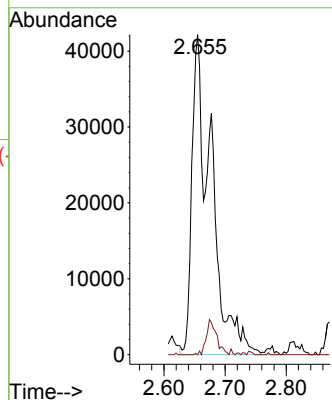
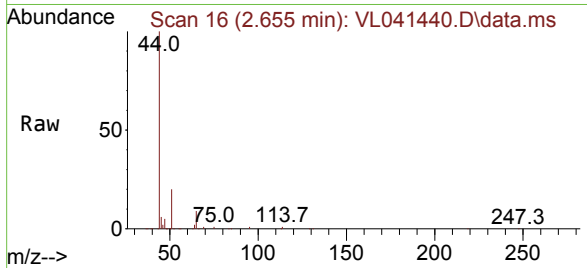




#3
Chlorodifluoromethane
Concen: 0.735 ppbv
RT: 2.655 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

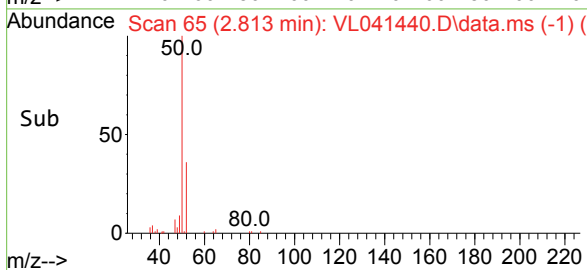
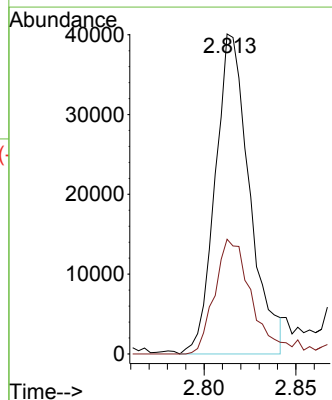
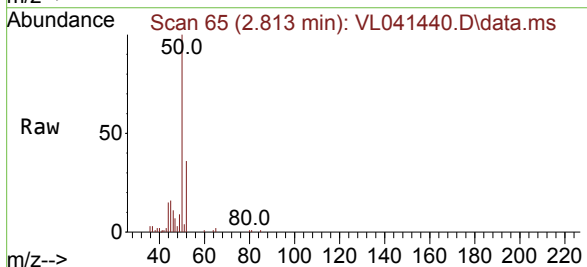
Instrument :
MSVOA_L
ClientSampleId :

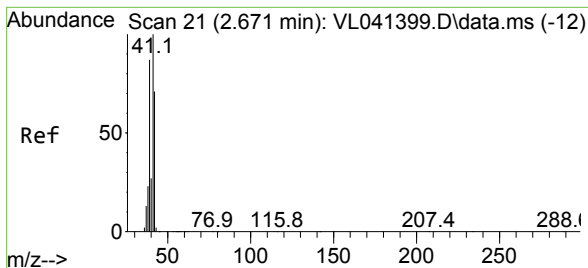
Tgt Ion: 51 Resp: 93082
Ion Ratio Lower Upper
51 100
67 6.0 14.5 21.7#



#4
Chloromethane
Concen: 0.774 ppbv
RT: 2.813 min Scan# 65
Delta R.T. 0.019 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

Tgt Ion: 50 Resp: 52126
Ion Ratio Lower Upper
50 100
52 35.8 26.1 39.1





#9

Propene

Concen: 5.917 ppbv

RT: 2.874 min Scan# 84

Delta R.T. 0.203 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

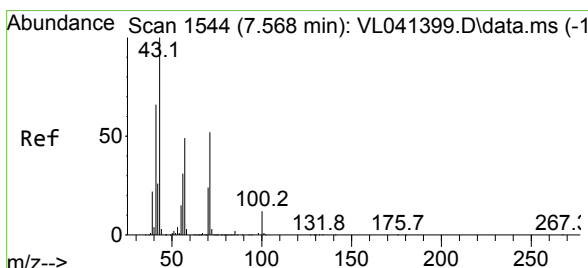
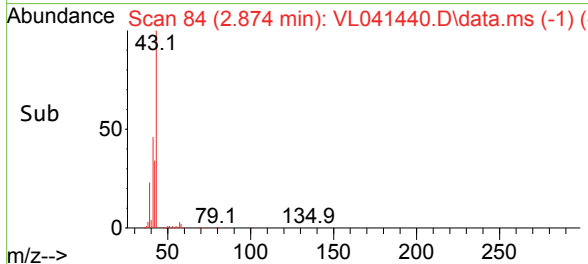
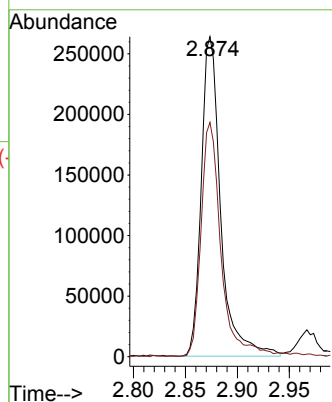
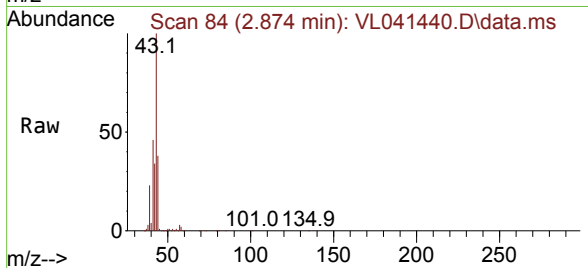
ClientSampleId :

Tgt Ion: 41 Resp: 344167

Ion Ratio Lower Upper

41 100

42 75.7 55.9 83.9



#10

Heptane

Concen: 0.505 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.013 min

Lab File: VL041440.D

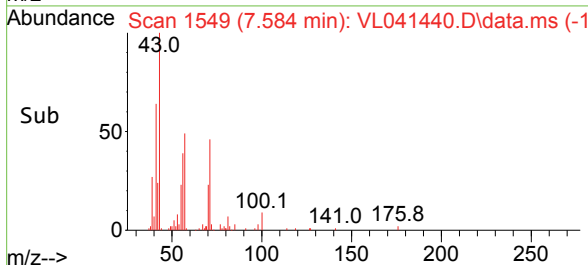
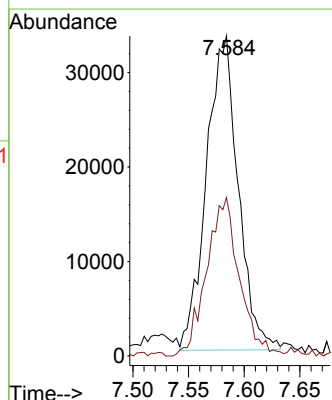
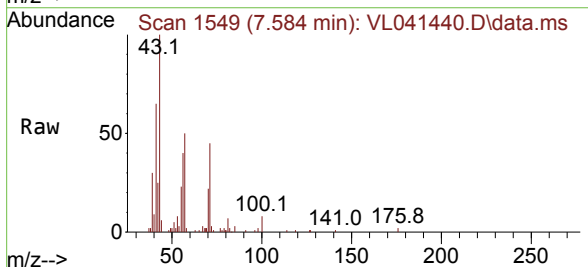
Acq: 29 Jul 2024 22:28

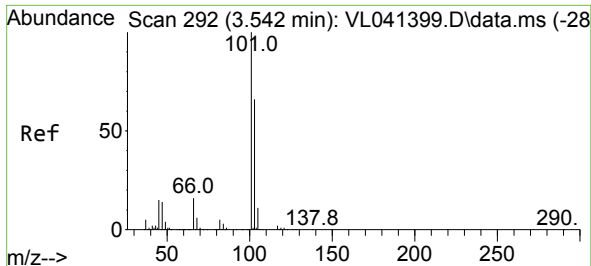
Tgt Ion: 43 Resp: 66025

Ion Ratio Lower Upper

43 100

57 54.2 40.5 60.7

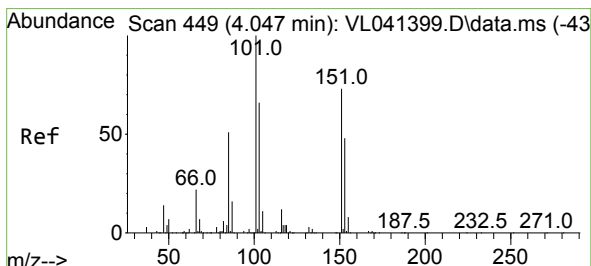
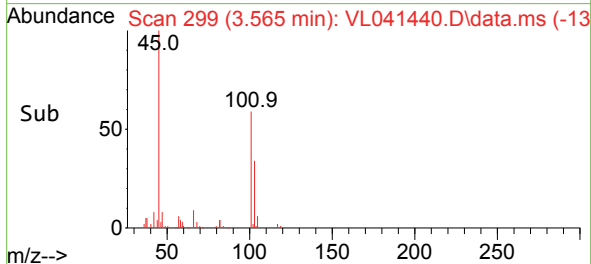
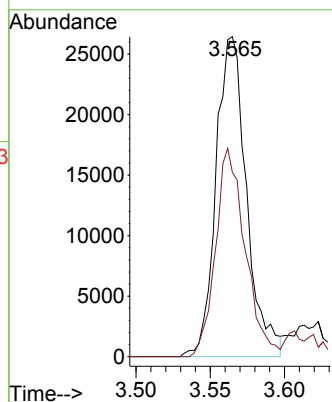
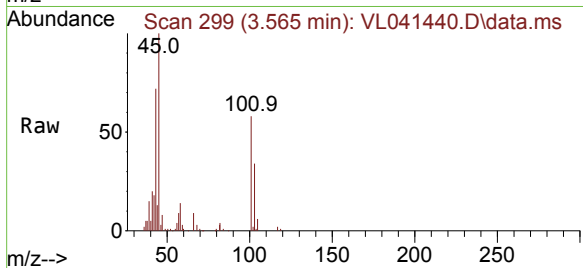




#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 3.565 min Scan# 292
 Delta R.T. 0.019 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

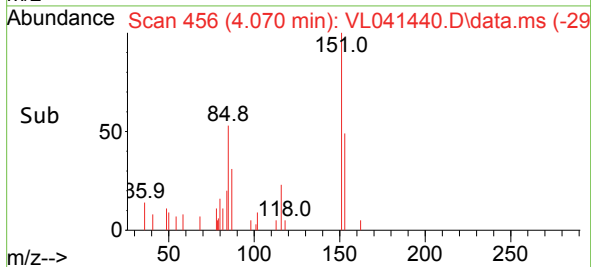
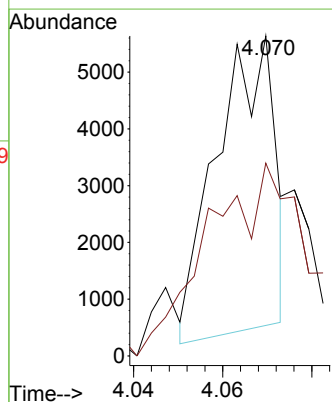
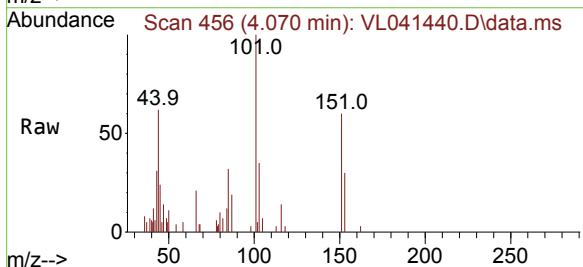
Instrument :
 MSVOA_L
 ClientSampleId :

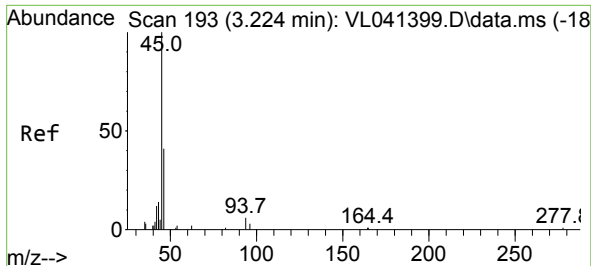
Tgt Ion:101 Resp: 37781
 Ion Ratio Lower Upper
 101 100
 103 57.6 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.040 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. 0.019 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Tgt Ion:101 Resp: 4692
 Ion Ratio Lower Upper
 101 100
 151 119.0 59.4 89.2#

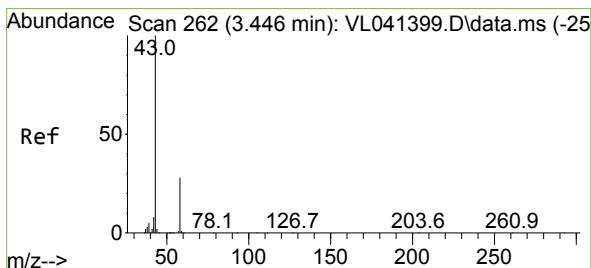
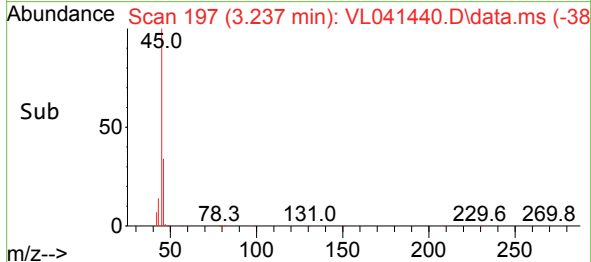
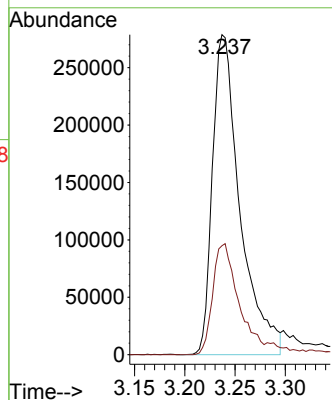
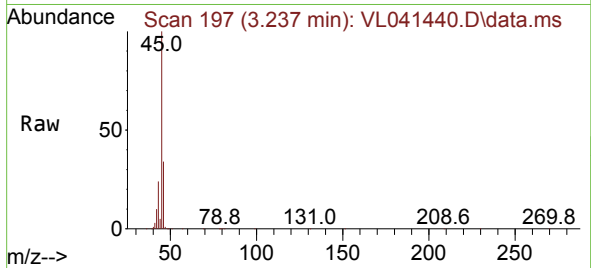




#13
 Ethanol
 Concen: 102.261 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.010 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

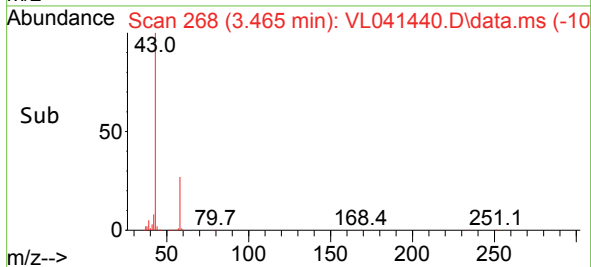
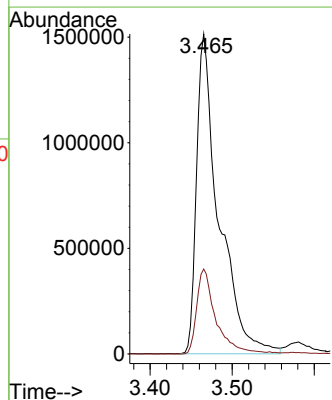
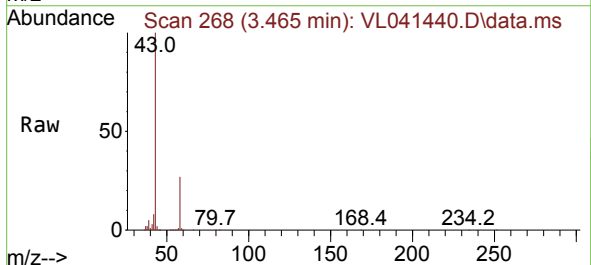
Instrument :
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 ClientSampleId :

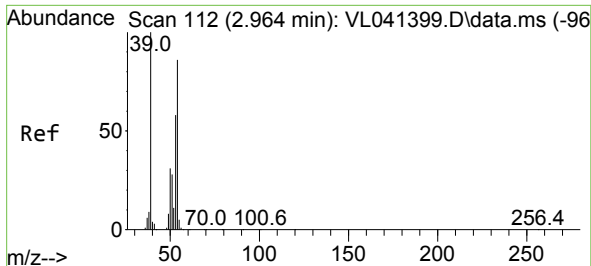
Tgt Ion: 45 Resp: 531648
 Ion Ratio Lower Upper
 45 100
 46 37.7 13.4 53.4



#15
 Acetone
 Concen: 23.514 ppbv
 RT: 3.465 min Scan# 268
 Delta R.T. 0.013 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Tgt Ion: 43 Resp: 2841708
 Ion Ratio Lower Upper
 43 100
 58 23.9 21.4 32.2

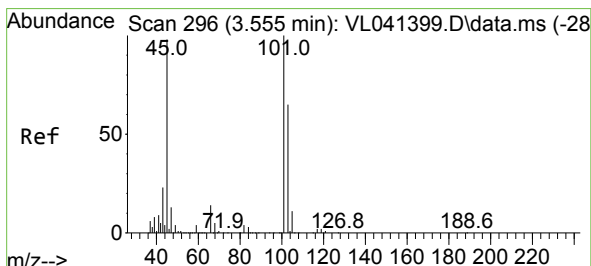
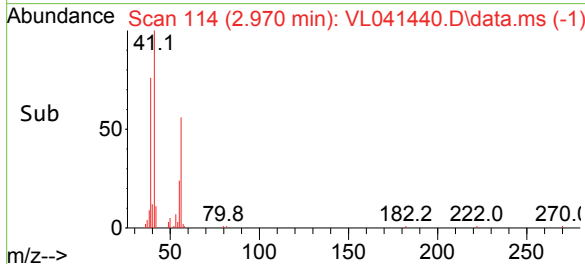
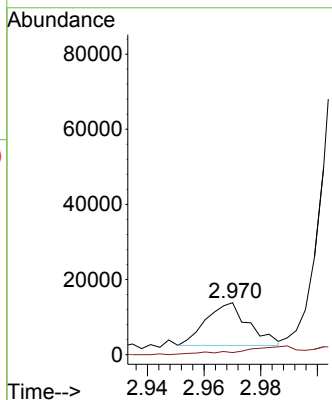
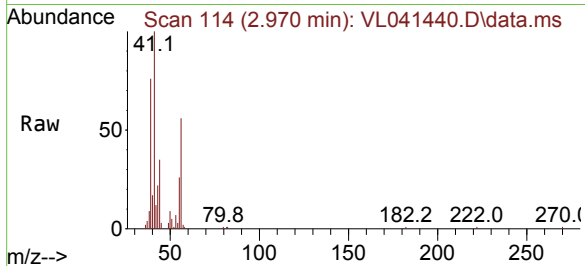




#16
1,3-Butadiene
Concen: 0.183 ppbv
RT: 2.970 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

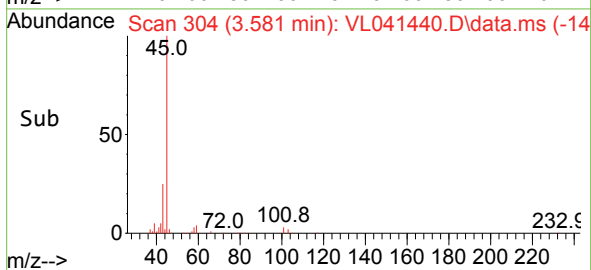
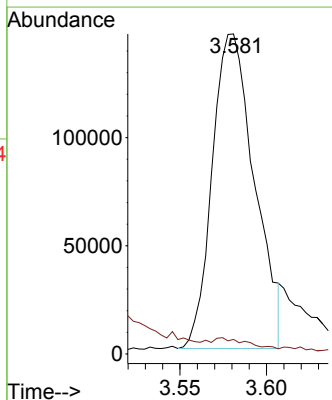
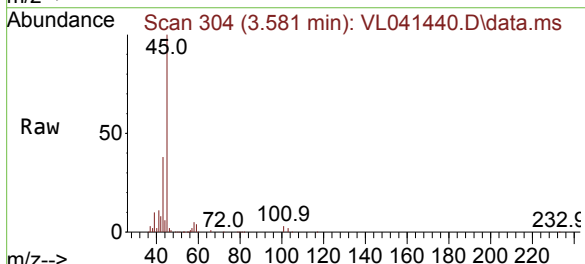
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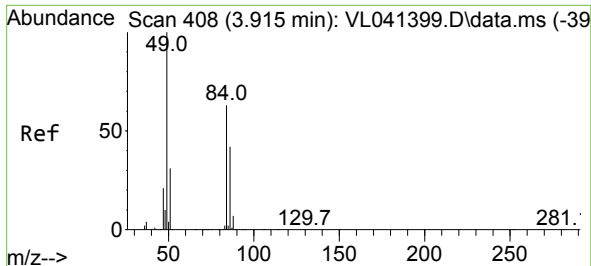
Tgt Ion: 39 Resp: 11844
Ion Ratio Lower Upper
39 100
54 0.0 62.5 93.7#



#19
Isopropyl Alcohol
Concen: 3.497 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.019 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

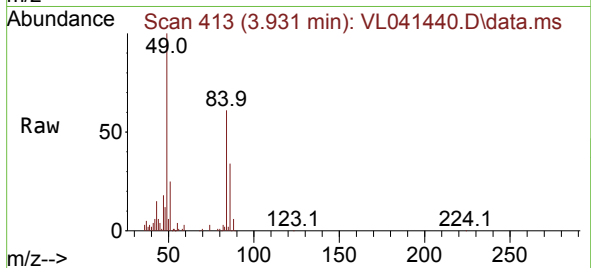
Tgt Ion: 45 Resp: 247059
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#



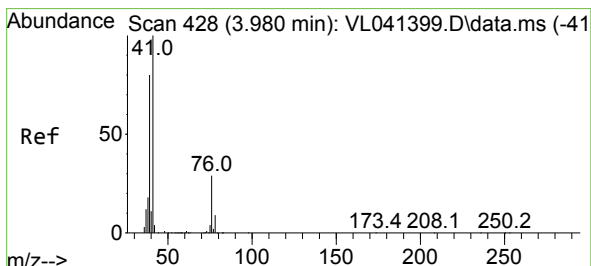
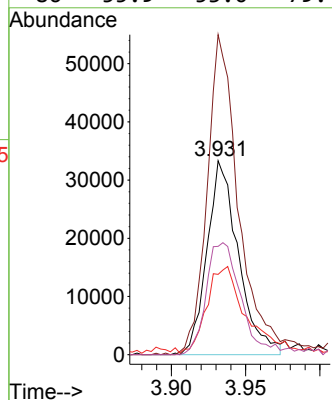
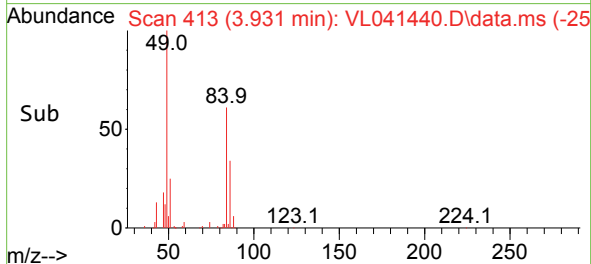


#20
Methylene Chloride
Concen: 1.090 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.013 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

Instrument :
MSVOA_L
ClientSampleId :

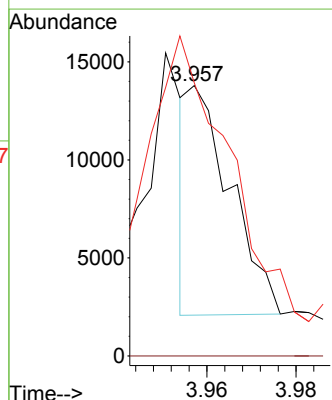
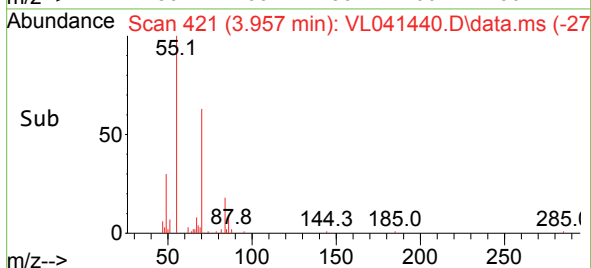
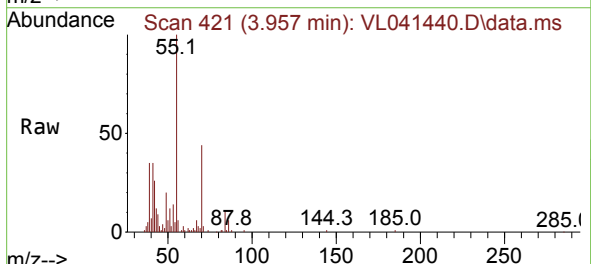


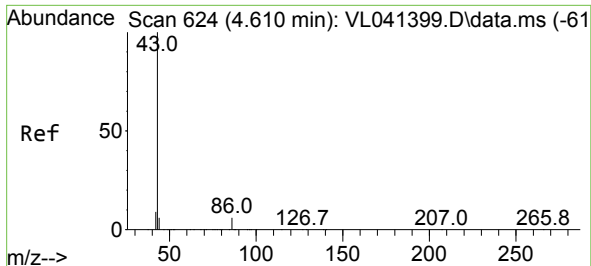
Tgt Ion: 84	Resp: 49108
Ion Ratio	Lower Upper
84 100	
49 163.4	126.6 190.0
51 40.6	38.6 58.0
86 55.9	53.0 79.4



#21
Allyl Chloride
Concen: 0.097 ppbv
RT: 3.957 min Scan# 421
Delta R.T. -0.022 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

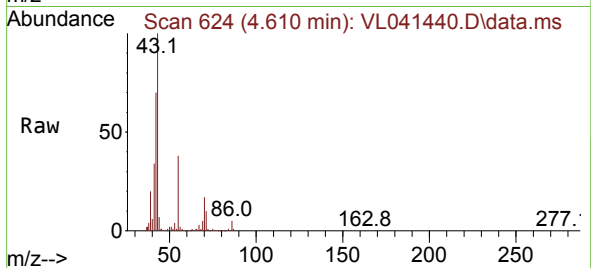
Tgt Ion: 41	Resp: 7709		
Ion Ratio	Lower	Upper	
41 100			
76 0.0	23.7	35.5#	
39 324.4	64.3	96.5#	



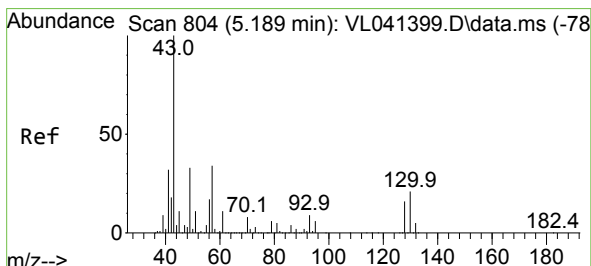
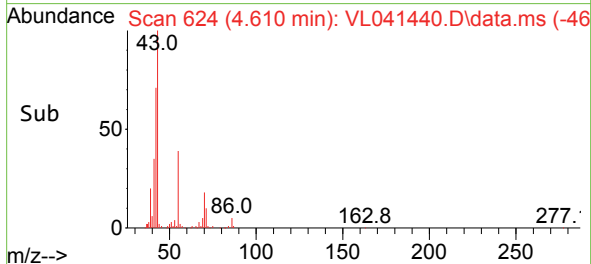
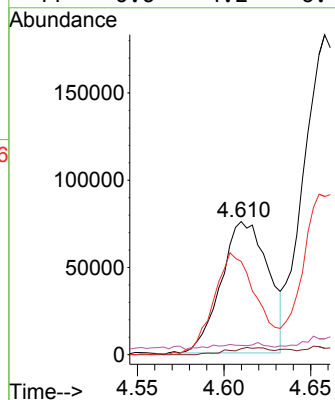


#23
 Vinyl Acetate
 Concen: 1.548 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Instrument :
 MSVOA_L
 ClientSampleId :

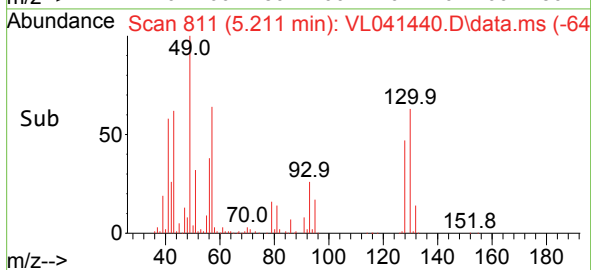
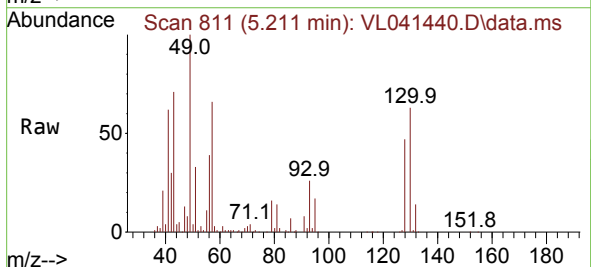
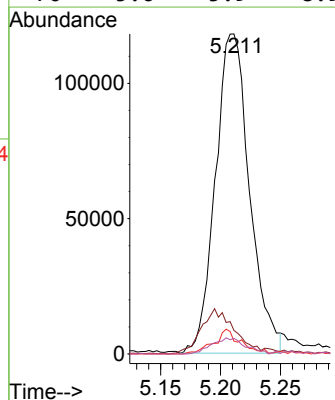


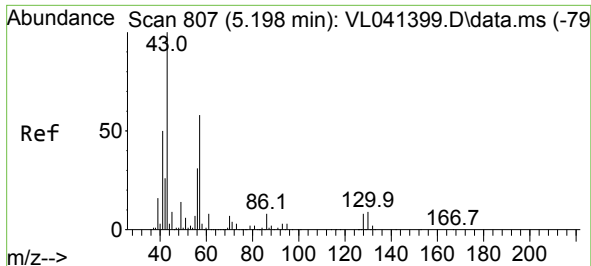
Tgt Ion:	43	Resp:	142846
Ion	Ratio	Lower	Upper
43	100		
86	4.6	4.6	6.8
42	70.1	7.9	11.9#
44	0.6	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.974 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.019 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Tgt Ion:	43	Resp:	233732
Ion	Ratio	Lower	Upper
43	100		
45	14.6	8.5	12.7#
61	6.6	8.0	12.0#
70	5.6	5.9	8.9#

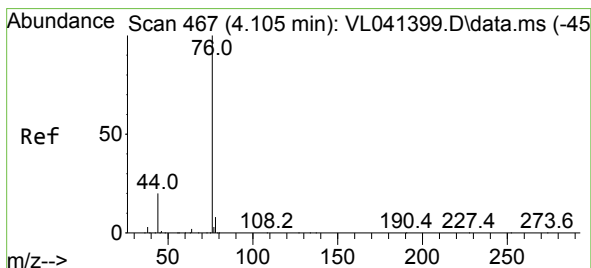
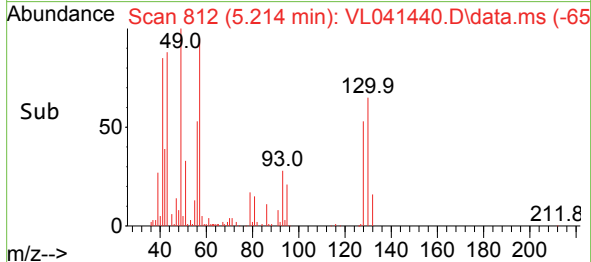
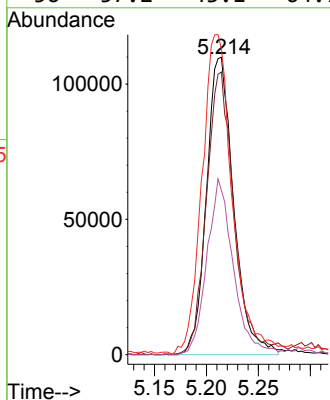
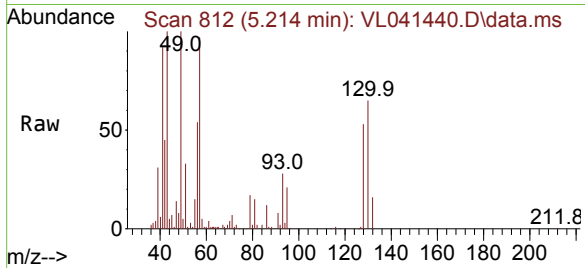




#26
Hexane
Concen: 2.009 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

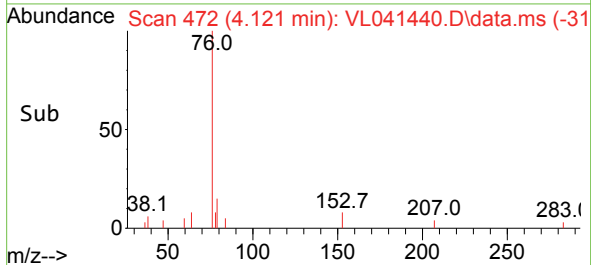
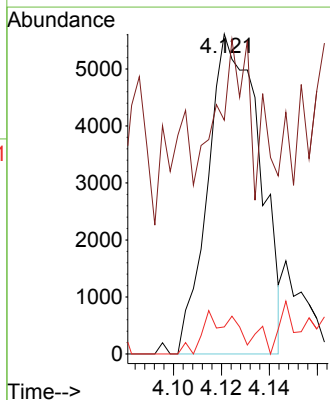
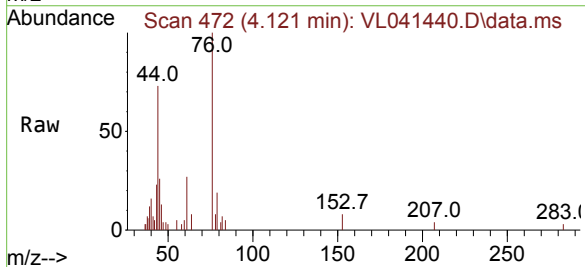
Instrument :
MSVOA_L
ClientSampleId :

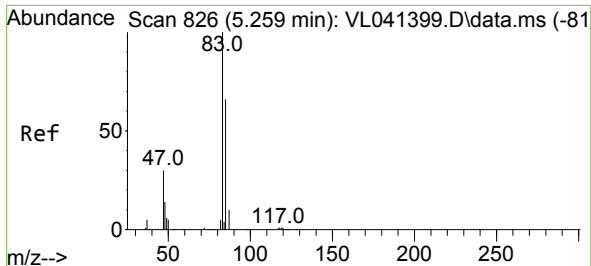
Tgt Ion: 57 Resp: 200061
Ion Ratio Lower Upper
57 100
41 97.3 74.0 111.0
43 124.8 193.6 290.4#
56 57.2 43.1 64.7



#27
Carbon Disulfide
Concen: 0.072 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.013 min
Lab File: VL041440.D
Acq: 29 Jul 2024 22:28

Tgt Ion: 76 Resp: 8377
Ion Ratio Lower Upper
76 100
44 53.7 15.6 23.4#
78 0.0 7.7 11.5#





#29

Chloroform

Concen: 0.124 ppbv

RT: 5.279 min Scan# 81

Delta R.T. 0.016 min

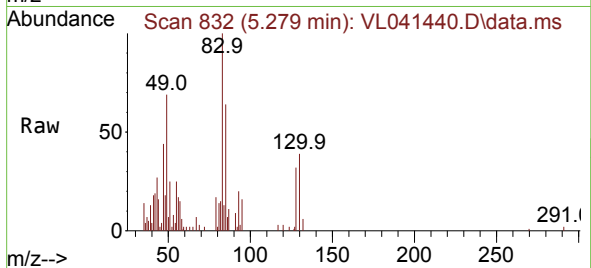
Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

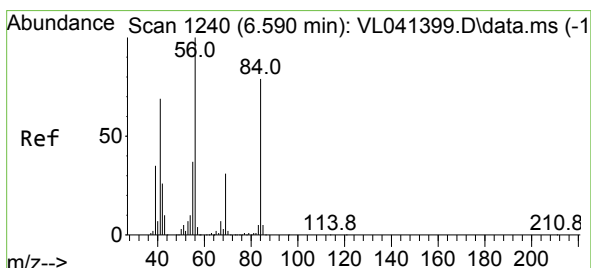
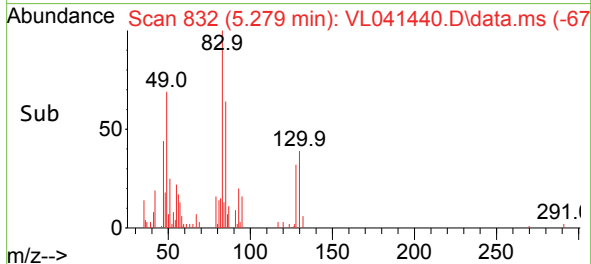
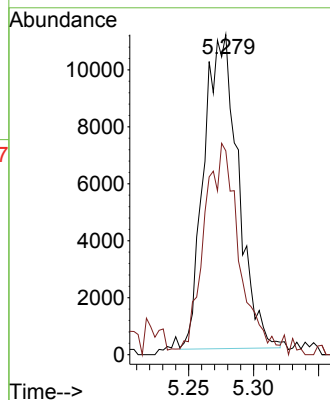


Tgt Ion: 83 Resp: 20209

Ion Ratio Lower Upper

83 100

85 63.3 53.1 79.7



#30

Cyclohexane

Concen: 0.095 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.010 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

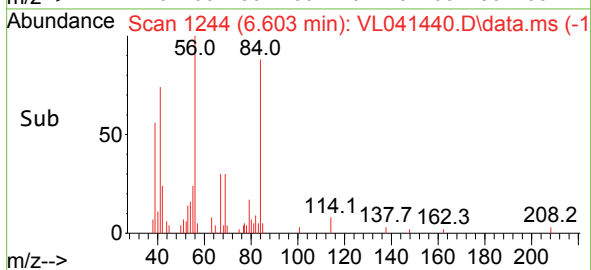
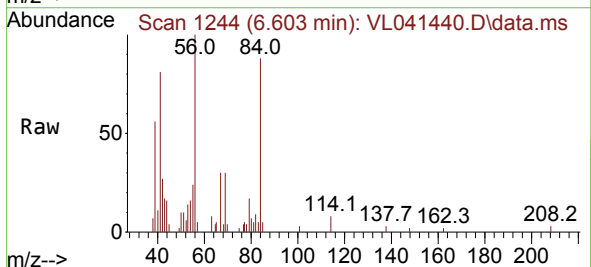
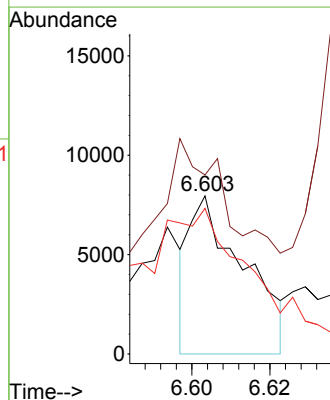
Tgt Ion: 84 Resp: 7702

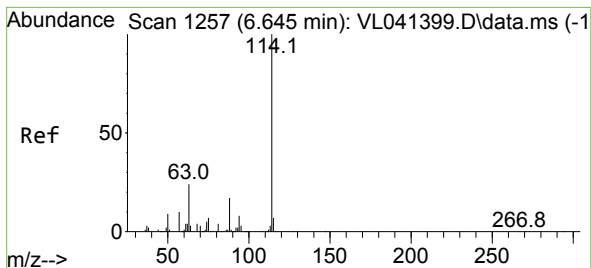
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 220.7 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

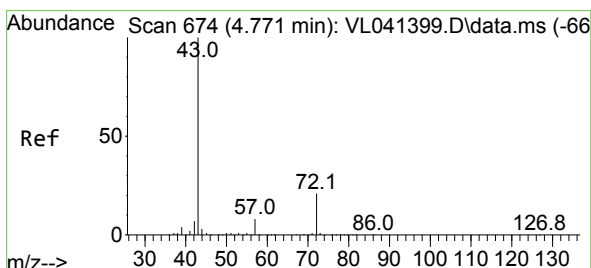
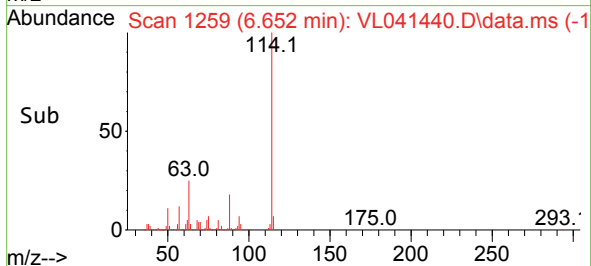
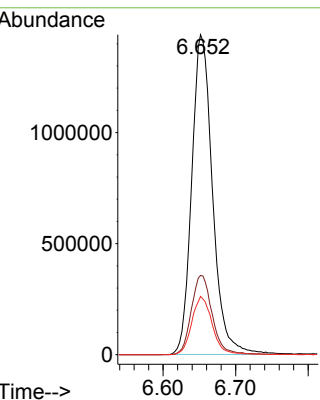
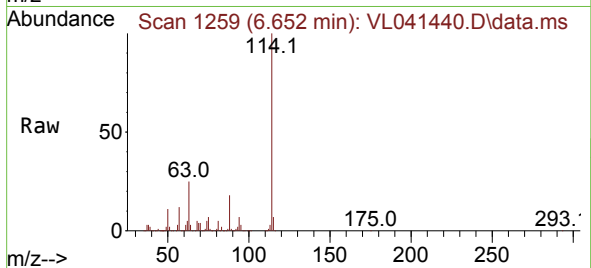
Tgt Ion:114 Resp: 2876090

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 1.583 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.013 min

Lab File: VL041440.D

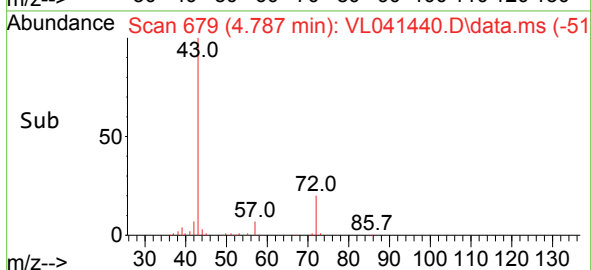
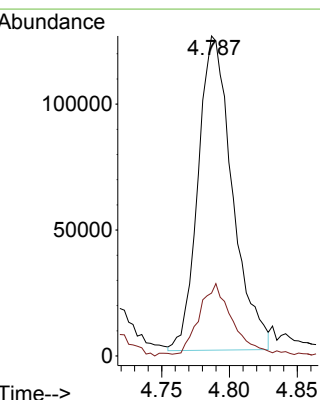
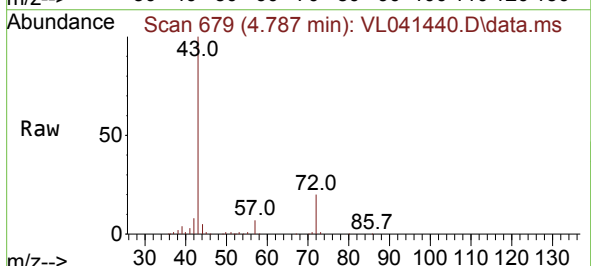
Acq: 29 Jul 2024 22:28

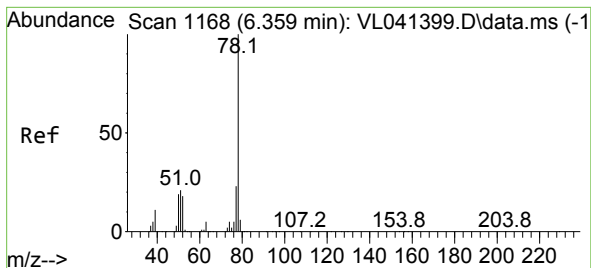
Tgt Ion: 43 Resp: 220229

Ion Ratio Lower Upper

43 100

72 23.0 17.3 25.9





#36

Benzene

Concen: 0.698 ppbv

RT: 6.369 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

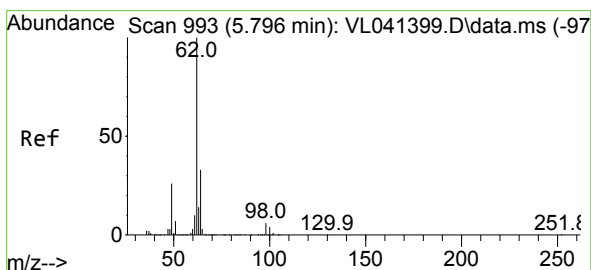
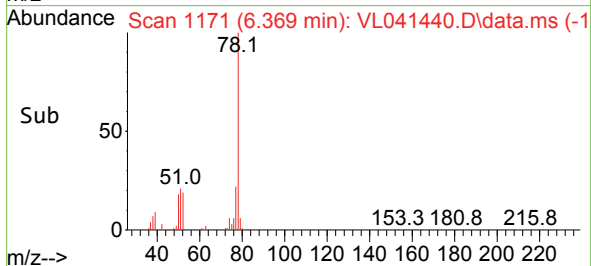
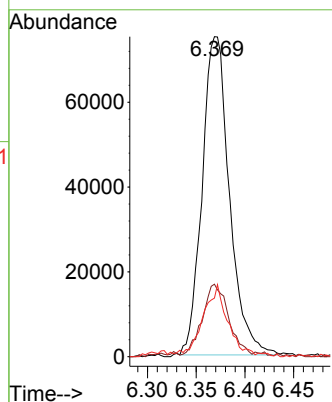
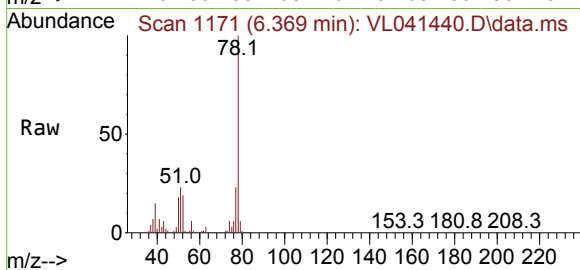
Tgt Ion: 78 Resp: 146707

Ion Ratio Lower Upper

78 100

77 22.2 18.1 27.1

50 18.4 15.5 23.3



#37

1,2-Dichloroethane

Concen: 0.475 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.013 min

Lab File: VL041440.D

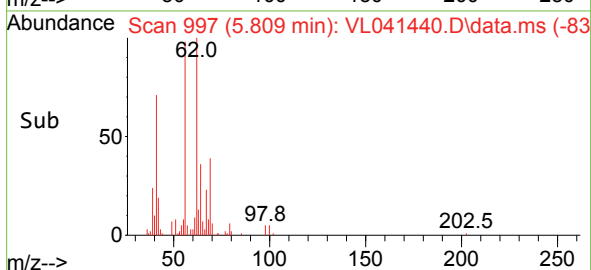
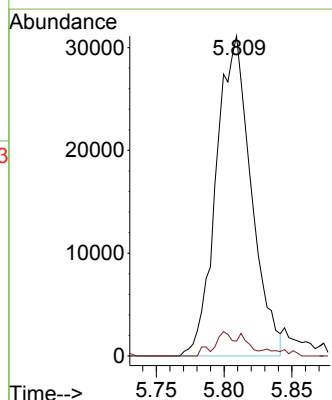
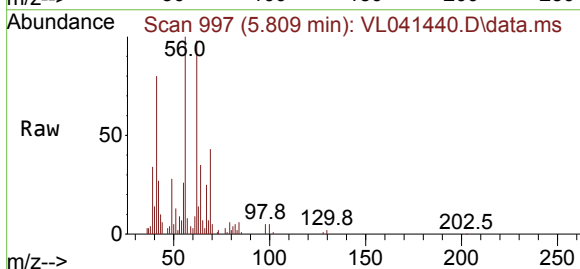
Acq: 29 Jul 2024 22:28

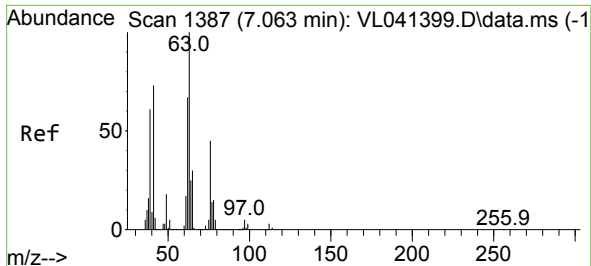
Tgt Ion: 62 Resp: 55817

Ion Ratio Lower Upper

62 100

98 7.8 5.0 7.4#





#39

1,2-Dichloropropane

Concen: 8.761 ppbv

RT: 6.652 min Scan# 1259

Delta R.T. -0.412 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

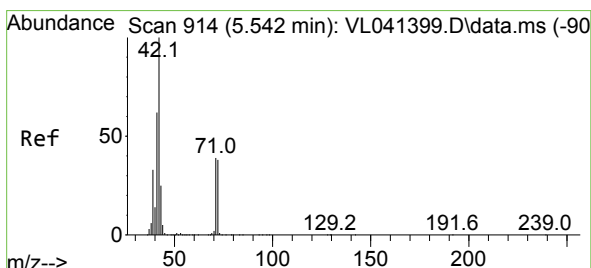
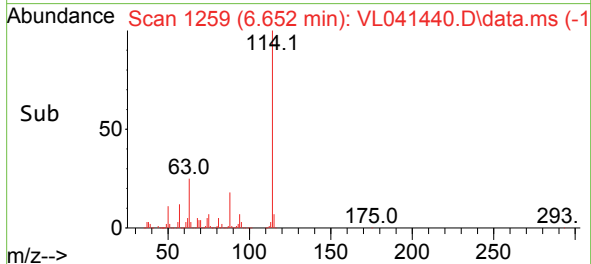
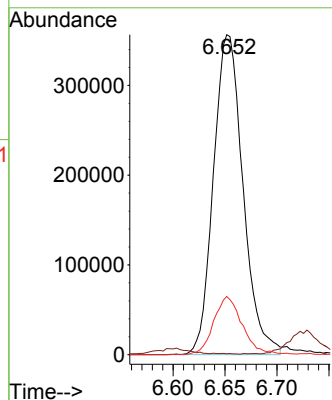
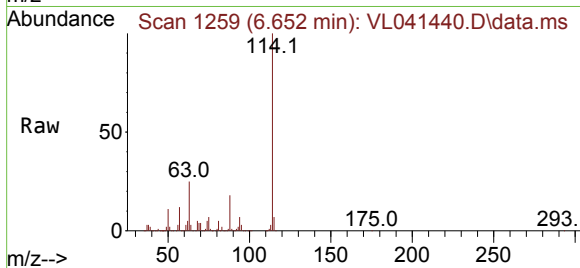
Tgt Ion: 63 Resp: 704909

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.0 53.9 80.9#



#41

Tetrahydrofuran

Concen: 1.747 ppbv

RT: 5.565 min Scan# 921

Delta R.T. 0.019 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

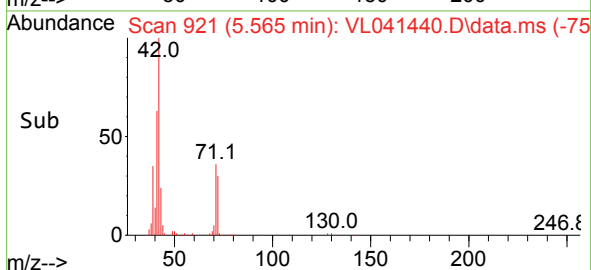
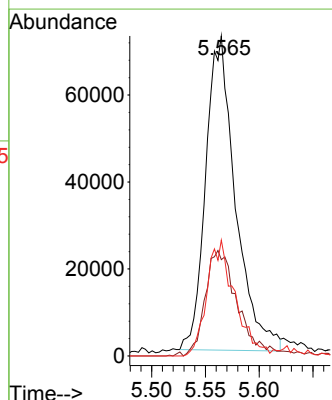
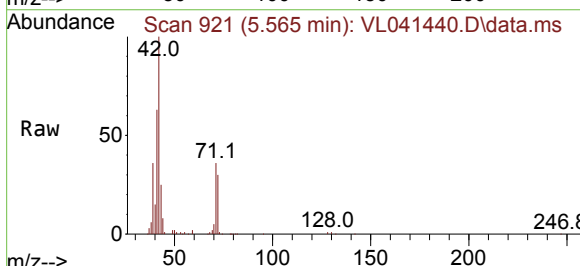
Tgt Ion: 42 Resp: 138999

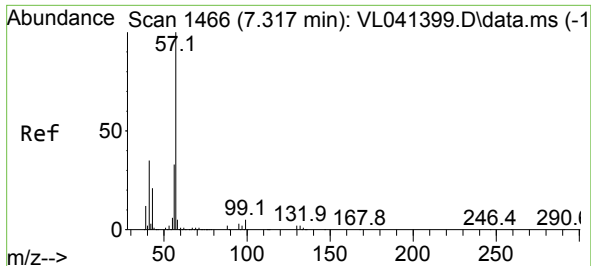
Ion Ratio Lower Upper

42 100

72 37.9 31.2 46.8

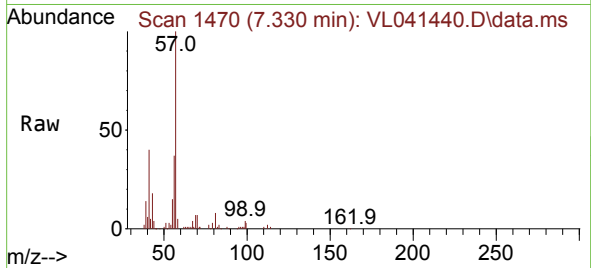
71 36.9 30.5 45.7



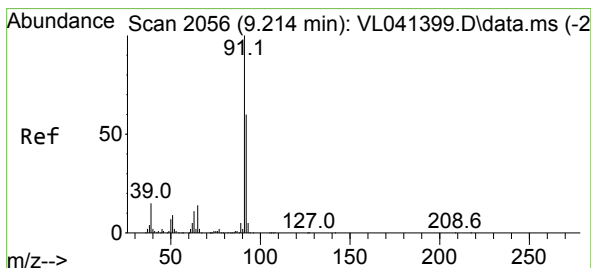
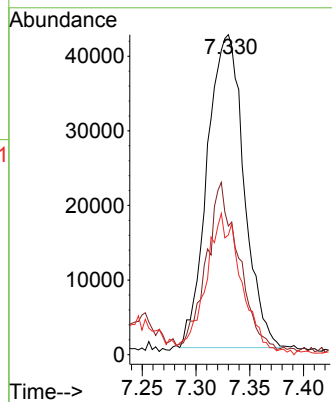
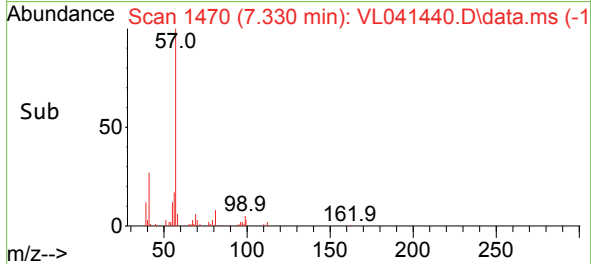


#44
 2,2,4-Trimethylpentane
 Concen: 0.284 ppbv
 RT: 7.330 min Scan# 1466
 Delta R.T. 0.013 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Instrument :
 MSVOA_L
 ClientSampleId :

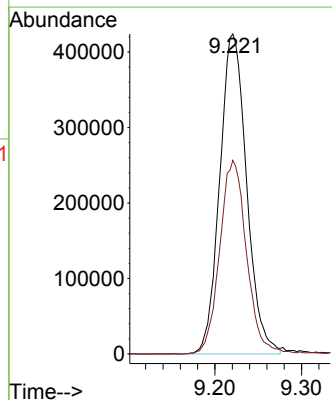
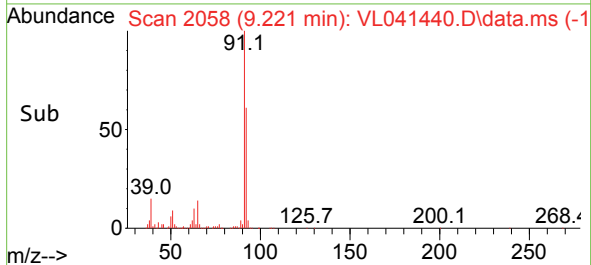
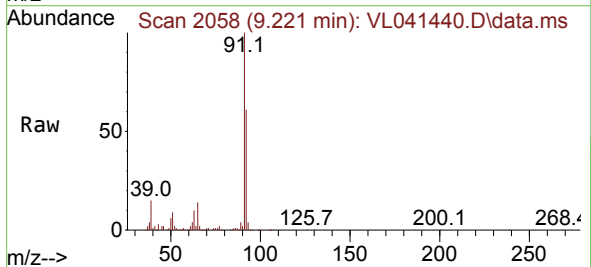


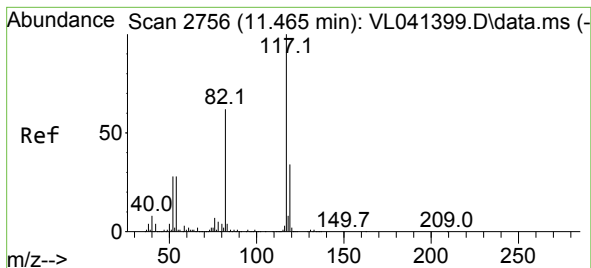
Tgt Ion: 57 Resp: 99643
 Ion Ratio Lower Upper
 57 100
 41 49.9 27.0 40.6#
 56 42.7 25.2 37.8#



#53
 Toluene
 Concen: 3.907 ppbv
 RT: 9.221 min Scan# 2058
 Delta R.T. 0.003 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Tgt Ion: 91 Resp: 914590
 Ion Ratio Lower Upper
 91 100
 92 61.0 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 2756

Delta R.T. 0.000 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

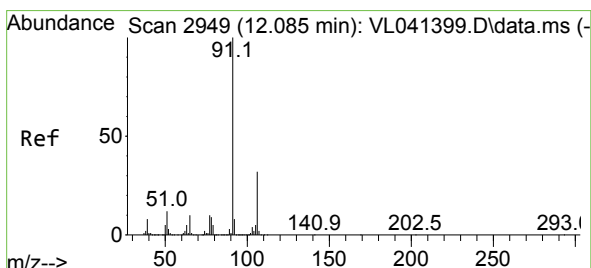
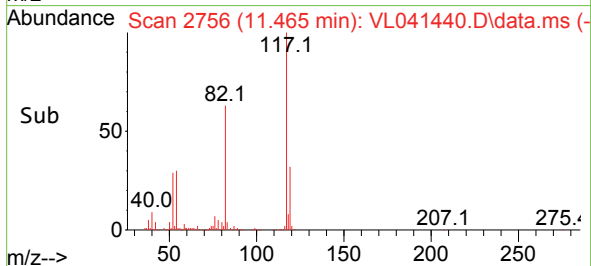
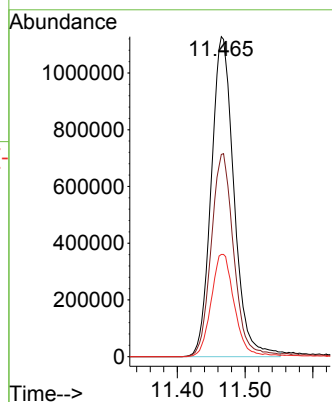
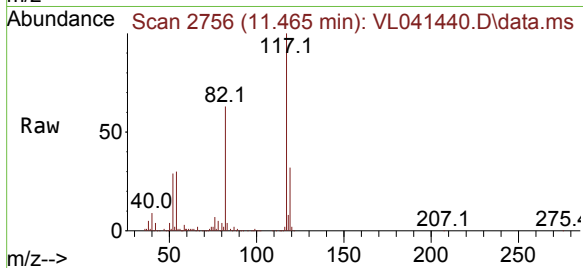
Tgt Ion:117 Resp: 2629445

Ion Ratio Lower Upper

117 100

82 64.7 51.0 76.6

119 33.1 45.2 67.8#



#58

Ethyl Benzene

Concen: 0.168 ppbv

RT: 12.085 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VL041440.D

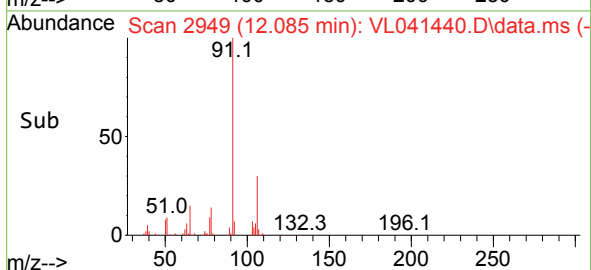
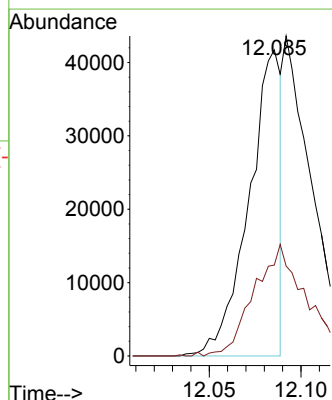
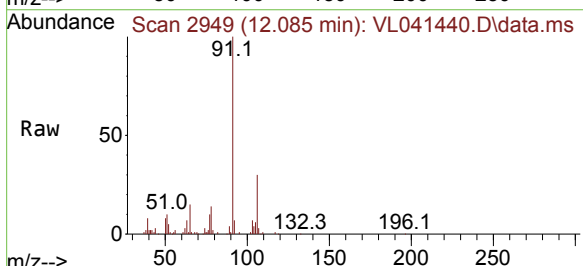
Acq: 29 Jul 2024 22:28

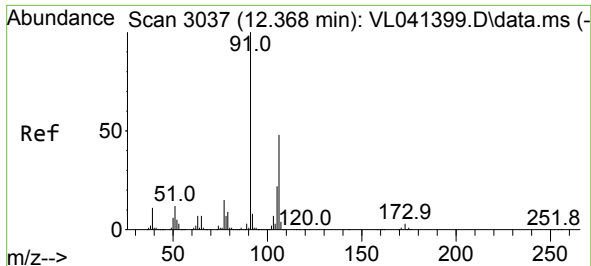
Tgt Ion: 91 Resp: 50791

Ion Ratio Lower Upper

91 100

106 29.3 25.8 38.8





#59

m/p-Xylene

Concen: 0.843 ppbv

RT: 12.343 min Scan# 3037

Delta R.T. -0.026 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

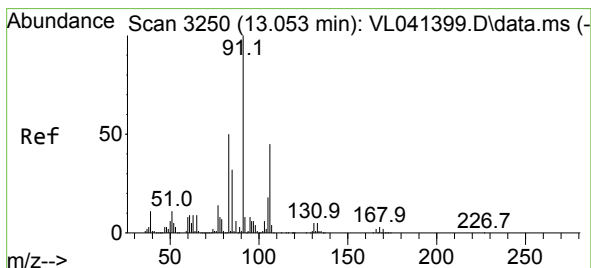
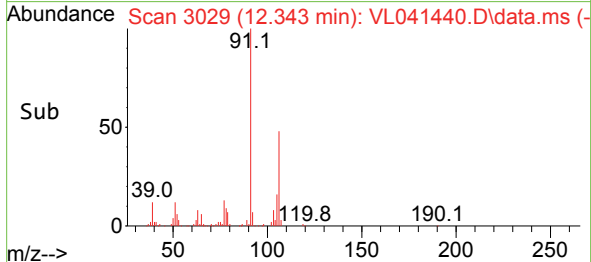
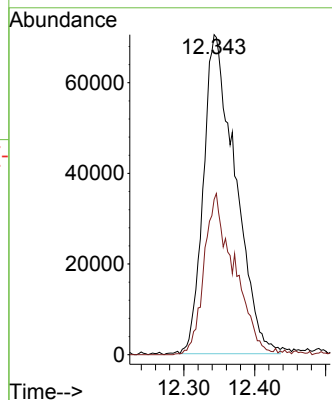
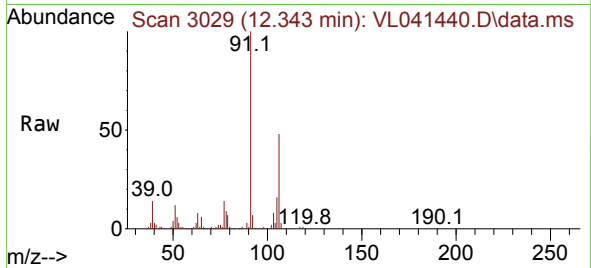
ClientSampleId :

Tgt Ion: 91 Resp: 220628

Ion Ratio Lower Upper

91 100

106 48.5 36.3 54.5



#60

o-Xylene

Concen: 0.324 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. 0.000 min

Lab File: VL041440.D

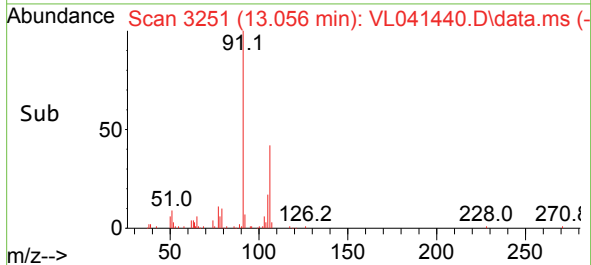
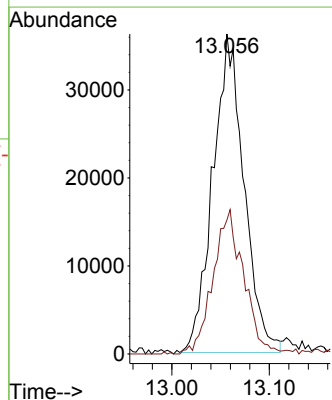
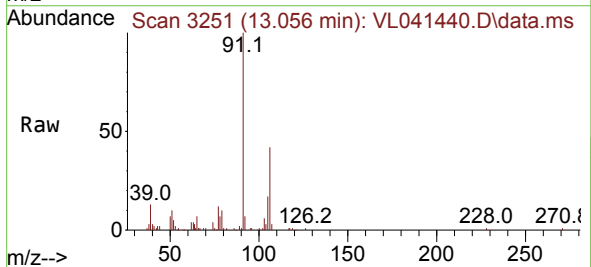
Acq: 29 Jul 2024 22:28

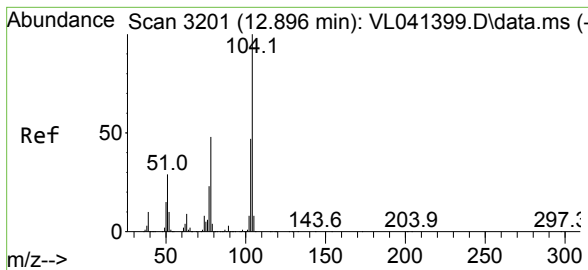
Tgt Ion: 91 Resp: 80261

Ion Ratio Lower Upper

91 100

106 44.7 23.1 69.3





#61

Styrene

Concen: 0.219 ppbv

RT: 12.899 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

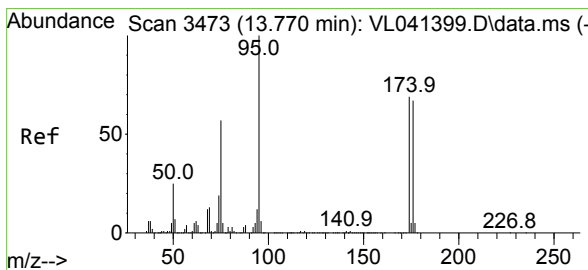
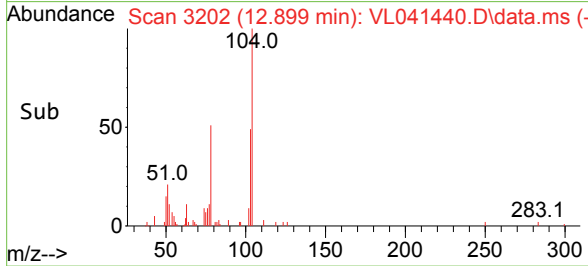
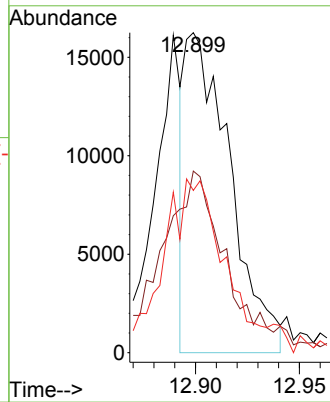
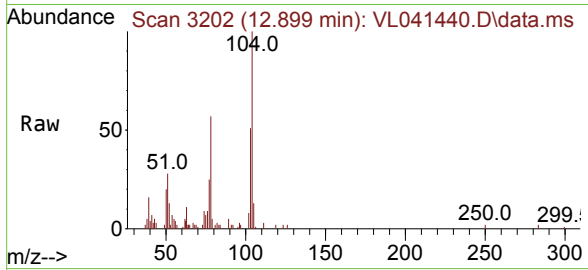
Tgt Ion:104 Resp: 24438

Ion Ratio Lower Upper

104 100

78 86.4 40.8 61.2#

103 81.0 38.2 57.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.031 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

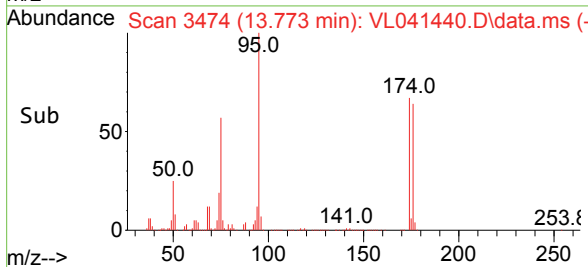
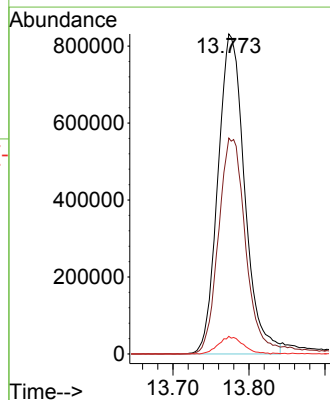
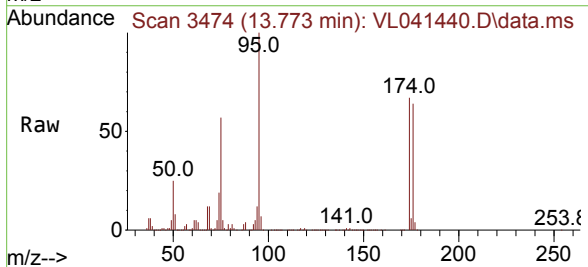
Tgt Ion: 95 Resp: 2029848

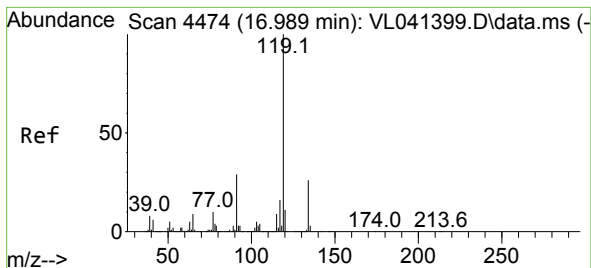
Ion Ratio Lower Upper

95 100

174 71.7 56.3 84.5

175 5.2 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.069 ppbv

RT: 16.998 min Scan# 4474

Delta R.T. 0.003 min

Lab File: VL041440.D

Acq: 29 Jul 2024 22:28

Instrument :

MSVOA_L

ClientSampleId :

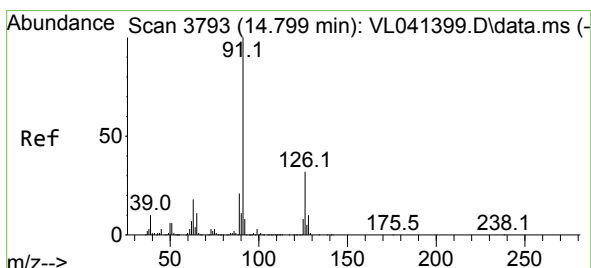
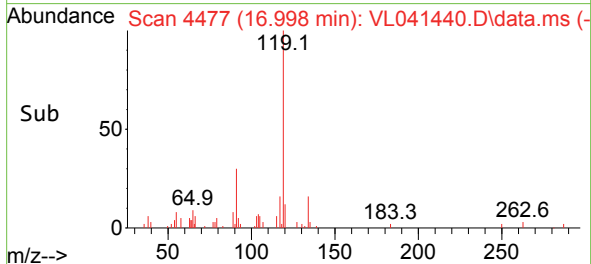
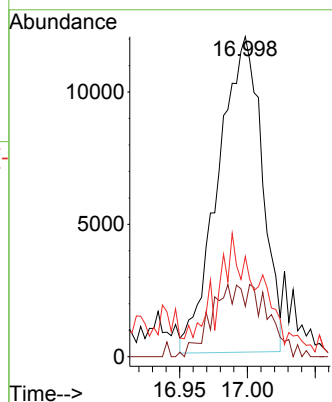
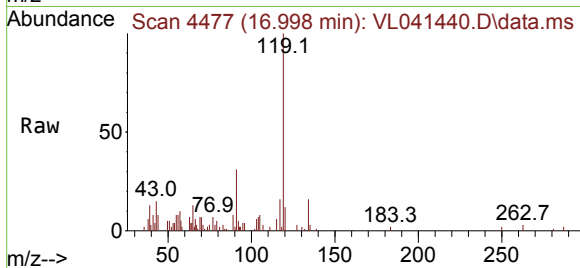
Tgt Ion:119 Resp: 26925

Ion Ratio Lower Upper

119 100

134 28.8 20.5 30.7

91 39.4 23.2 34.8#



#71

2-Chlorotoluene

Concen: 0.037 ppbv

RT: 14.915 min Scan# 3829

Delta R.T. 0.116 min

Lab File: VL041440.D

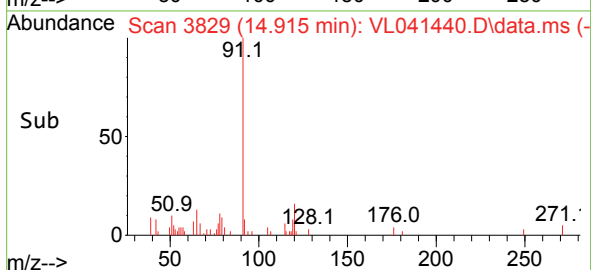
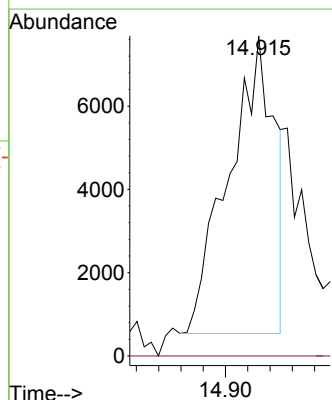
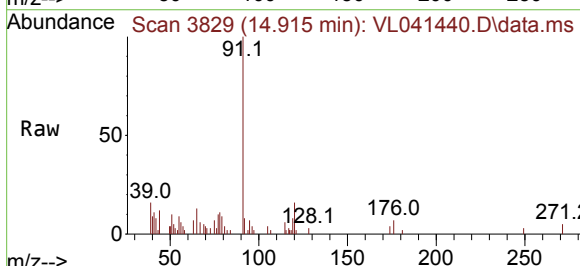
Acq: 29 Jul 2024 22:28

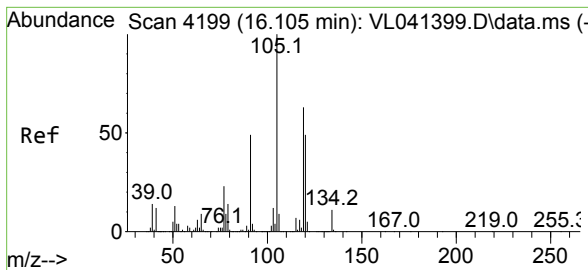
Tgt Ion: 91 Resp: 10194

Ion Ratio Lower Upper

91 100

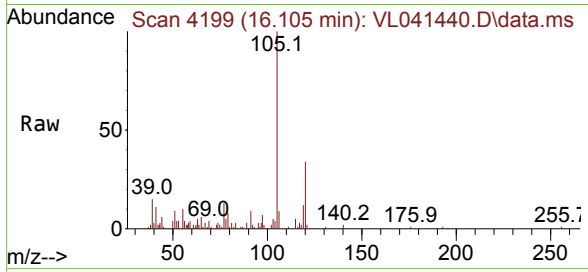
126 1.0 12.7 50.9#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.131 ppbv
 RT: 16.105 min Scan# 4199
 Delta R.T. -0.003 min
 Lab File: VL041440.D
 Acq: 29 Jul 2024 22:28

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	38298
Ion	Ratio	Lower	Upper
105	100		
120	33.8	39.5	59.3#
91	6.4	39.8	59.8#
77	13.2	18.2	27.4#

