

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080524\
 Data File : VL041498.D
 Acq On : 5 Aug 2024 13:07
 Operator : SY/MD
 Sample : P3454-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 06 01:37:06 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 Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

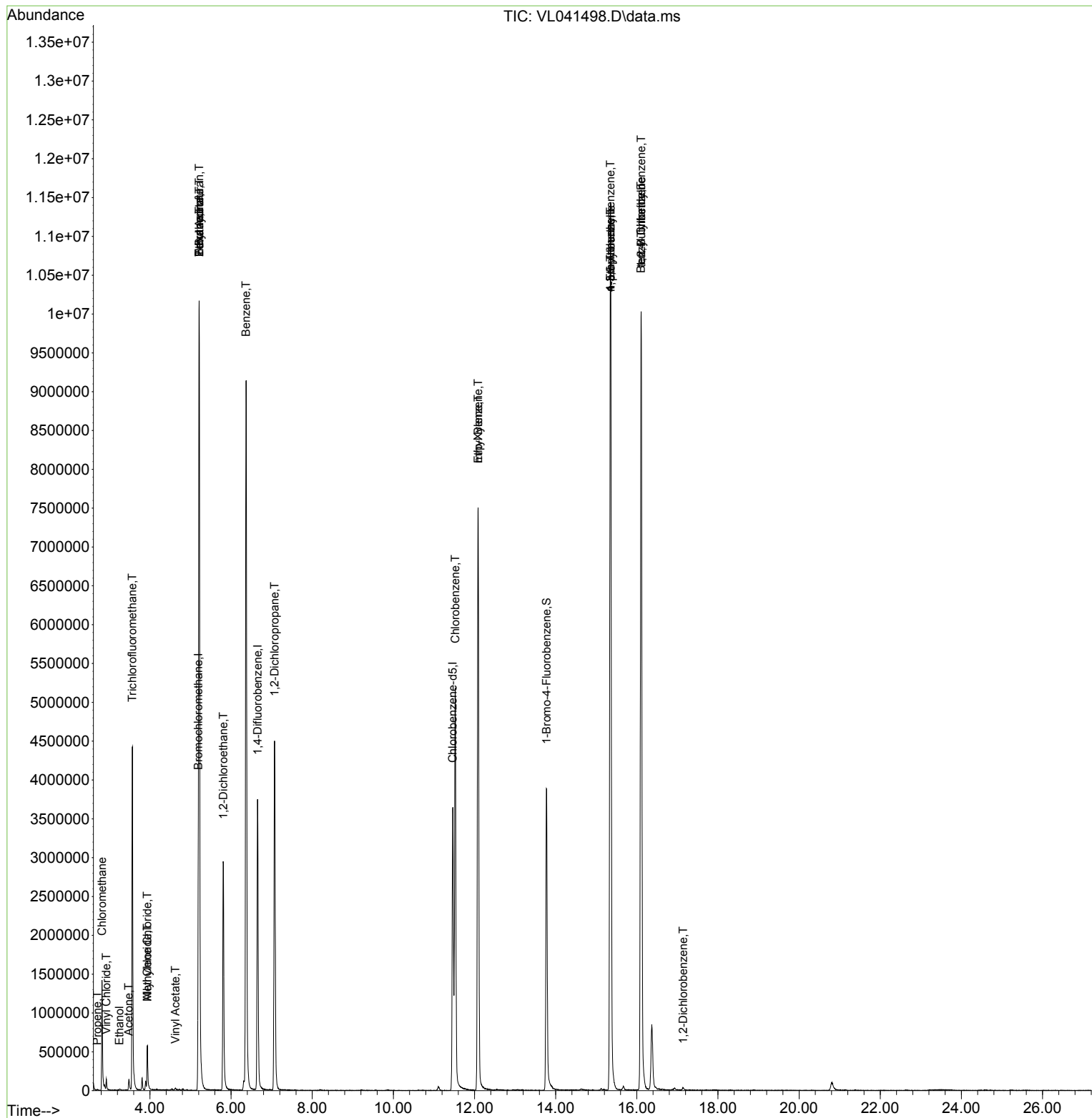
Internal Standards						
1) Bromochloromethane	5.192	49	1026442	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2815282	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2417190	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1913846	10.289	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						Qvalue
4) Chloromethane	2.819	50	1222250	18.806	ppbv	100
5) Vinyl Chloride	2.925	62	102927	1.607	ppbv	97
9) Propene	2.700	41	3321	0.059	ppbv #	15
11) Trichlorofluoromethane	3.568	101	2916690	18.599	ppbv	99
13) Ethanol	3.250	45	4021	0.801	ppbv #	41
15) Acetone	3.478	43	124216	1.065	ppbv	90
20) Methylene Chloride	3.935	84	182584	4.198	ppbv	95
21) Allyl Chloride	3.938	41	4074	0.053	ppbv #	19
23) Vinyl Acetate	4.626	43	23074	0.259	ppbv #	93
25) Ethyl Acetate	5.214	43	2928061	12.638	ppbv #	75
26) Hexane	5.214	57	4159236	43.274	ppbv #	37
34) 2-Butanone	5.214	43	2899857	21.294	ppbv #	54
36) Benzene	6.369	78	7792502	37.880	ppbv	94
37) 1,2-Dichloroethane	5.809	62	2514979	21.844	ppbv	100
39) 1,2-Dichloropropane	7.073	63	1670650	21.213	ppbv	99
41) Tetrahydrofuran	5.214	42	1595221	20.481	ppbv #	49
57) Chlorobenzene	11.526	112	3338216	19.397	ppbv	100
58) Ethyl Benzene	12.089	91	7191002	25.811	ppbv	97
59) m/p-Xylene	12.089	91	7191002	29.899	ppbv #	81
64) n-propylbenzene	15.355	120	4544957	50.263	ppbv #	1
65) tert-Butylbenzene	16.108	119	1002657	3.210	ppbv #	67
66) Benzyl Chloride	16.105	91	1055556	52.679	ppbv #	66
72) 4-Ethyltoluene	15.352	105	9384285	35.035	ppbv #	80
73) 1,3,5-Trimethylbenzene	15.352	105	9384285	40.668	ppbv	96
74) 1,2,4-Trimethylbenzene	16.108	105	8428678	31.418	ppbv #	75
77) 1,2-Dichlorobenzene	17.143	146	10161	0.061	ppbv #	49

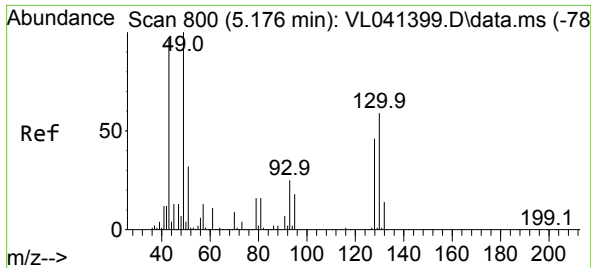
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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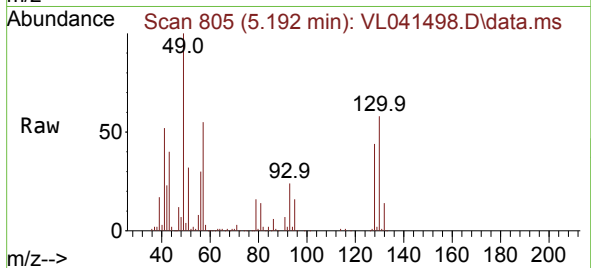
Quant Time: Aug 06 01:37:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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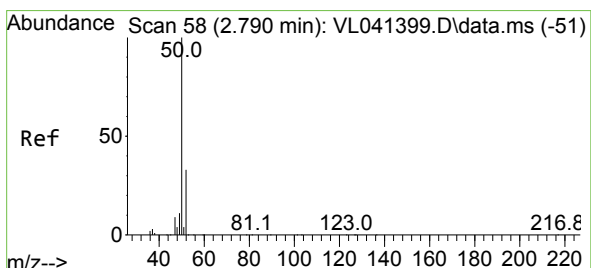
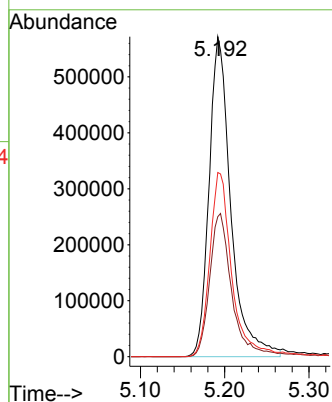
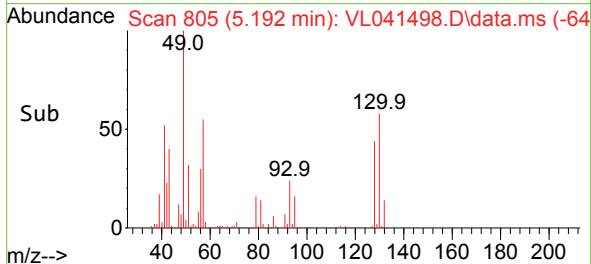


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Instrument :
MSVOA_L
ClientSampleId :

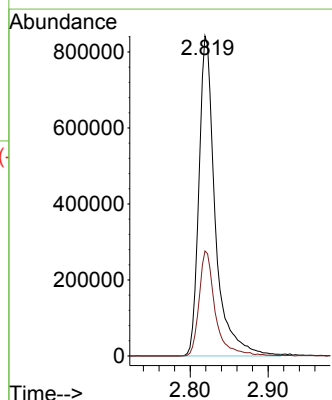
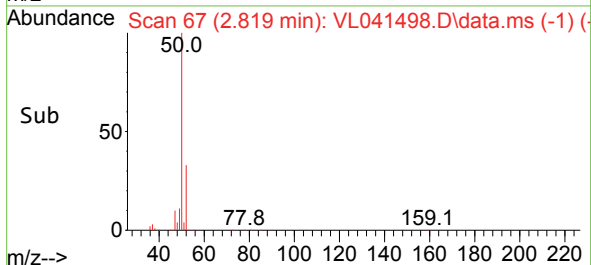
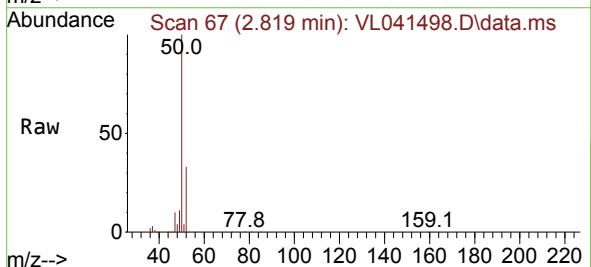


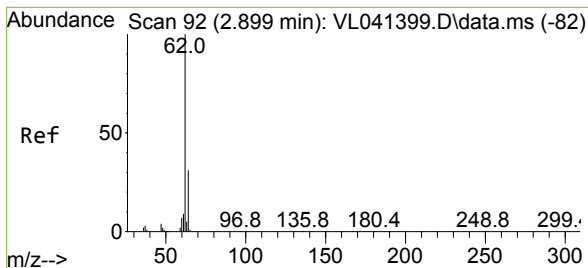
Tgt Ion: 49 Resp: 1026442
Ion Ratio Lower Upper
49 100
128 46.5 23.8 71.4
130 60.1 30.8 92.4



#4
Chloromethane
Concen: 18.806 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion: 50 Resp: 1222250
Ion Ratio Lower Upper
50 100
52 32.8 26.1 39.1

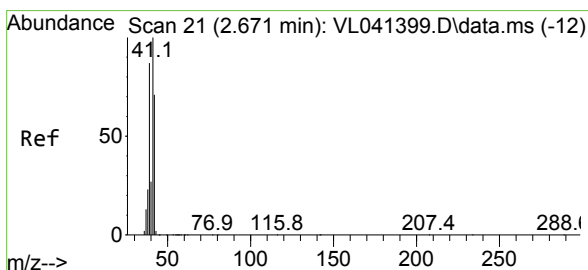
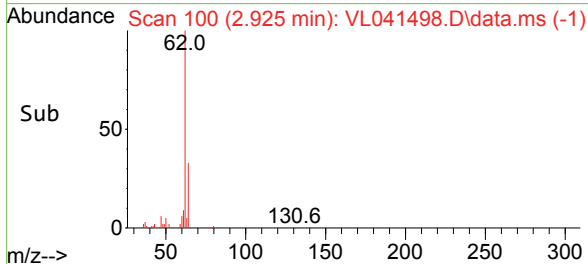
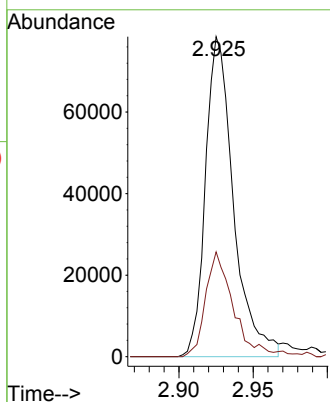
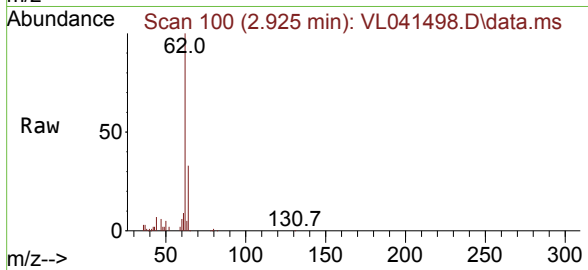




#5
 Vinyl Chloride
 Concen: 1.607 ppbv
 RT: 2.925 min Scan# 10
 Delta R.T. 0.003 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

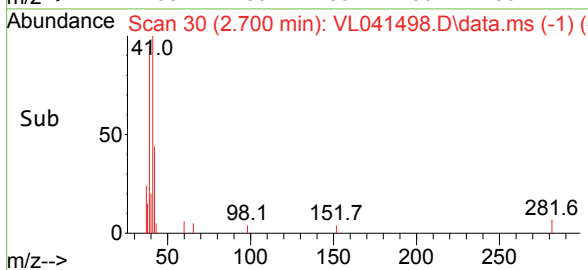
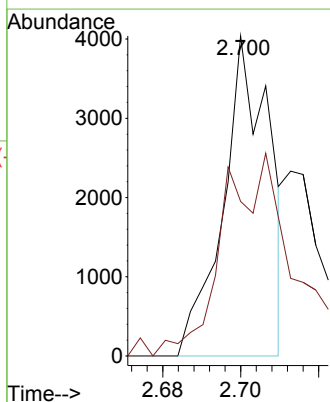
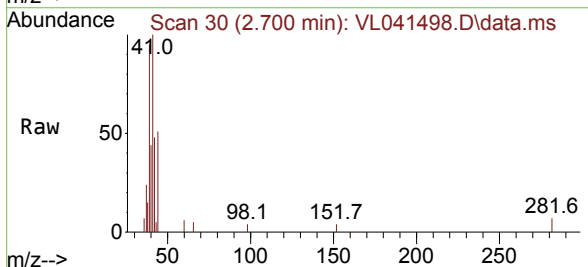
Instrument :
 MSVOA_L
 ClientSampleId :

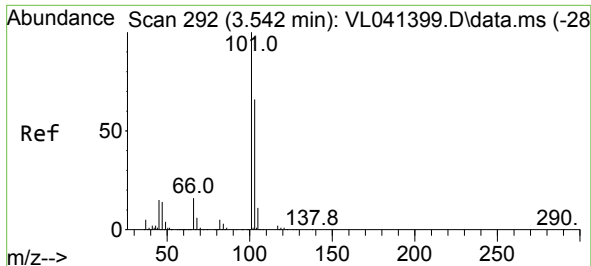
Tgt Ion: 62 Resp: 102927
 Ion Ratio Lower Upper
 62 100
 64 32.7 25.0 37.4



#9
 Propene
 Concen: 0.059 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

Tgt Ion: 41 Resp: 3321
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.9 83.9#

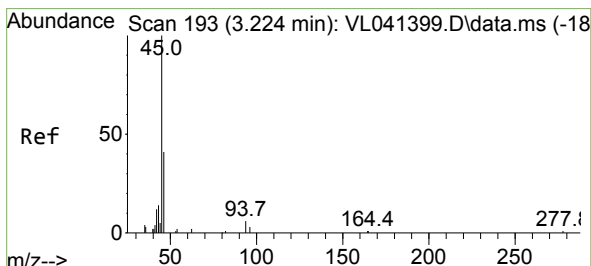
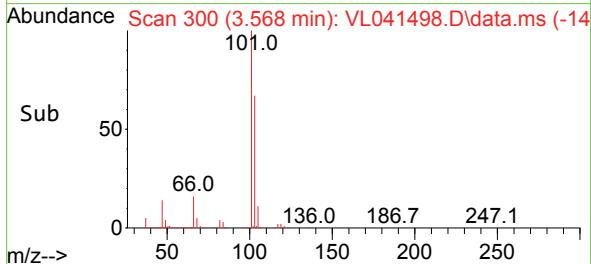
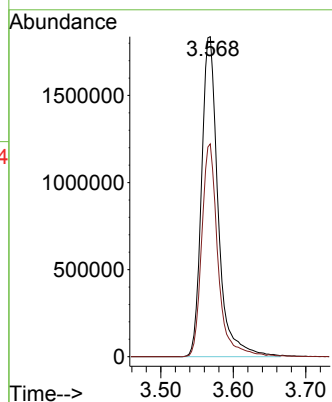
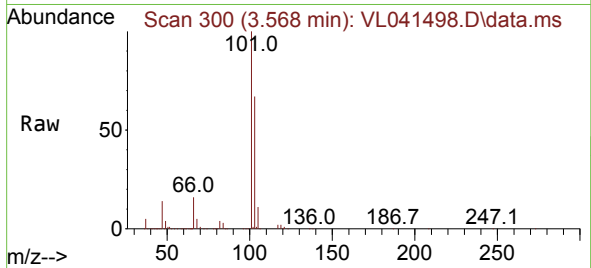




#11
 Trichlorofluoromethane
 Concen: 18.599 ppbv
 RT: 3.568 min Scan# 301
 Delta R.T. 0.007 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

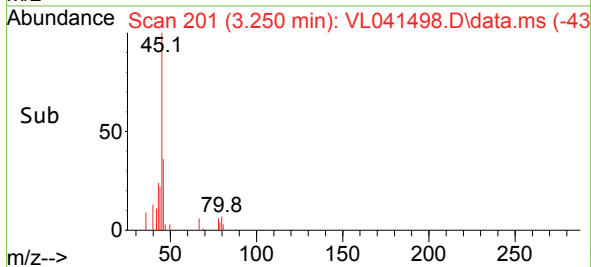
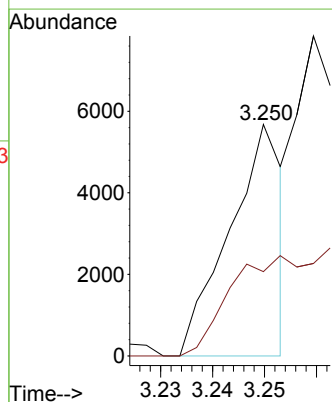
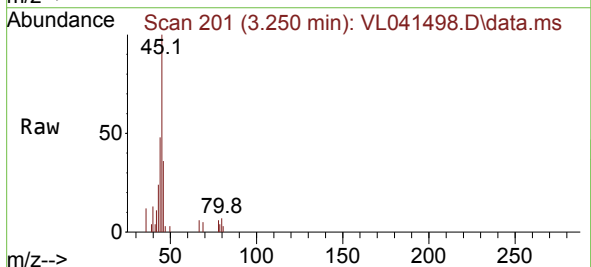
Instrument :
 MSVOA_L
 ClientSampleId :

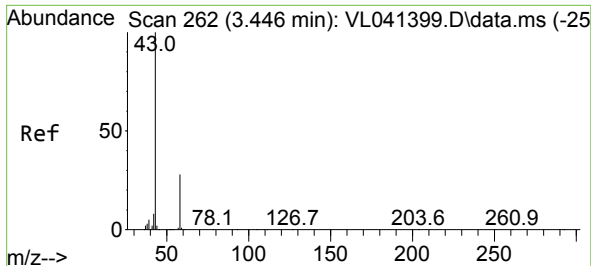
Tgt Ion:101 Resp: 2916690
 Ion Ratio Lower Upper
 101 100
 103 66.5 52.6 79.0



#13
 Ethanol
 Concen: 0.801 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. 0.007 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

Tgt Ion: 45 Resp: 4021
 Ion Ratio Lower Upper
 45 100
 46 0.0 13.4 53.4#





#15

Acetone

Concen: 1.065 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Instrument :

MSVOA_L

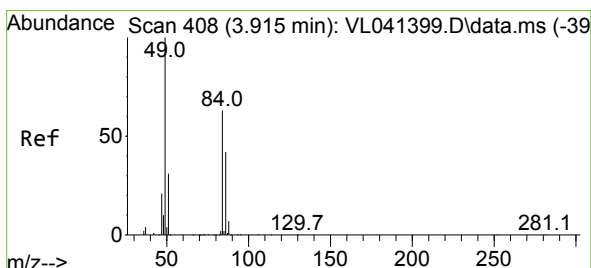
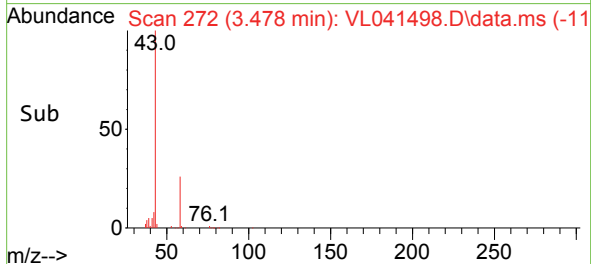
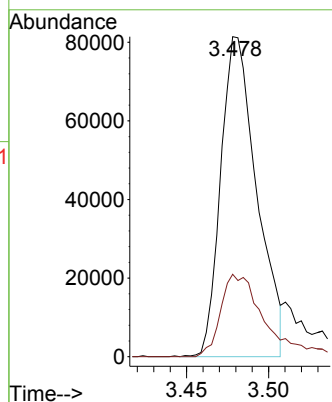
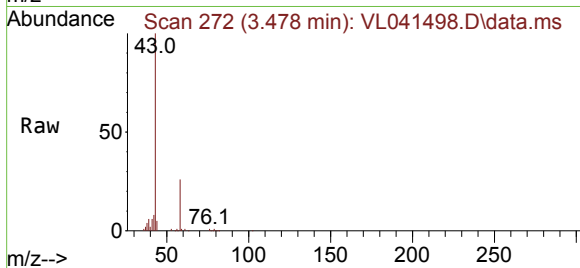
ClientSampleId :

Tgt Ion: 43 Resp: 124216

Ion Ratio Lower Upper

43 100

58 31.8 21.4 32.2



#20

Methylene Chloride

Concen: 4.198 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.003 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Tgt Ion: 84 Resp: 182584

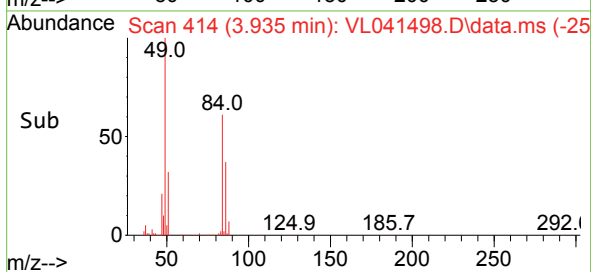
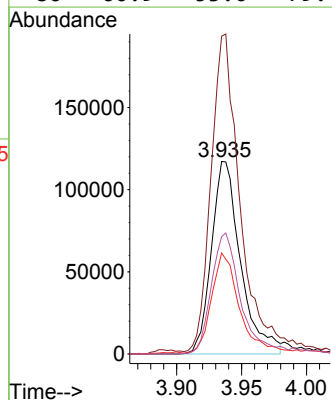
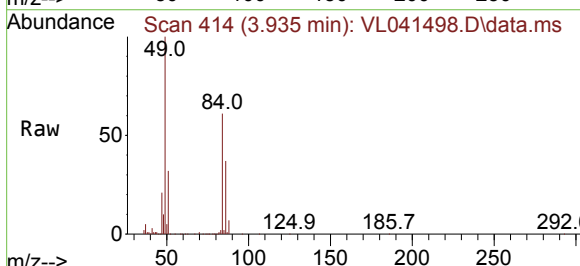
Ion Ratio Lower Upper

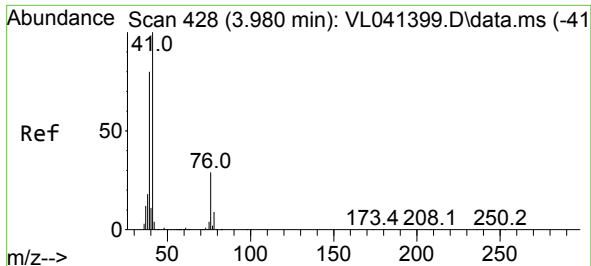
84 100

49 163.5 126.6 190.0

51 51.8 38.6 58.0

86 60.9 53.0 79.4

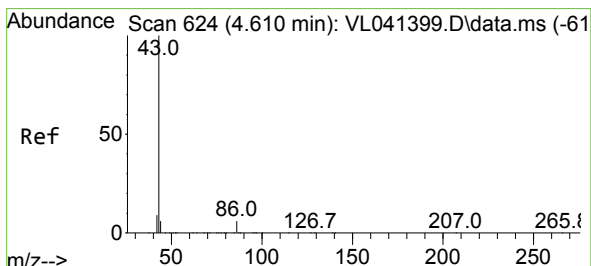
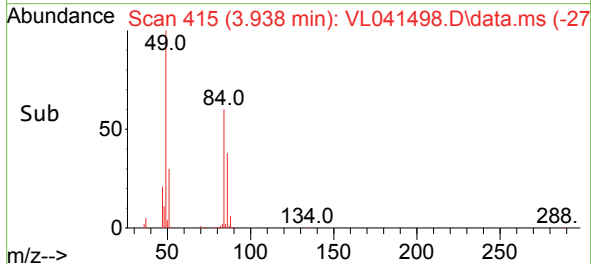
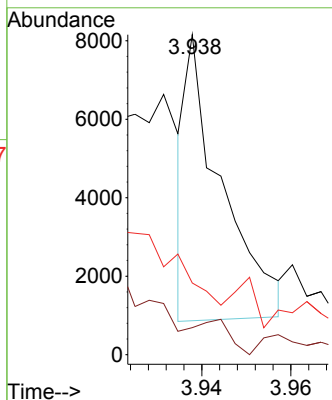
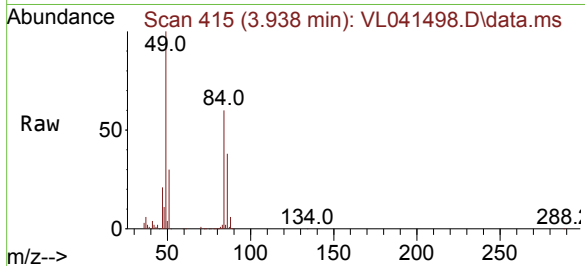




#21
 Allyl Chloride
 Concen: 0.053 ppbv
 RT: 3.938 min Scan# 41
 Delta R.T. -0.058 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

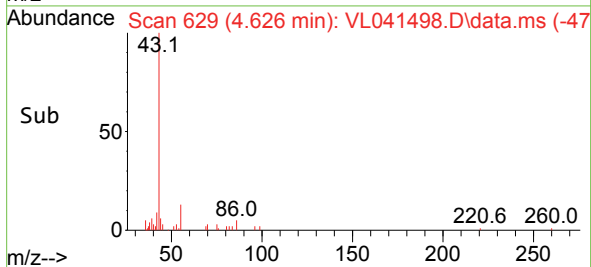
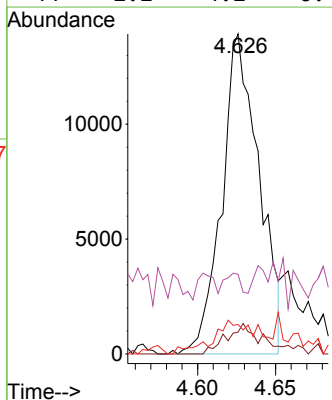
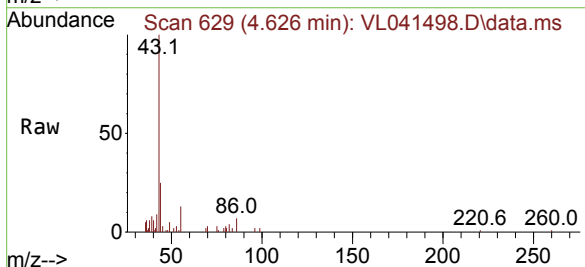
Instrument :
 MSVOA_L
 ClientSampleId :

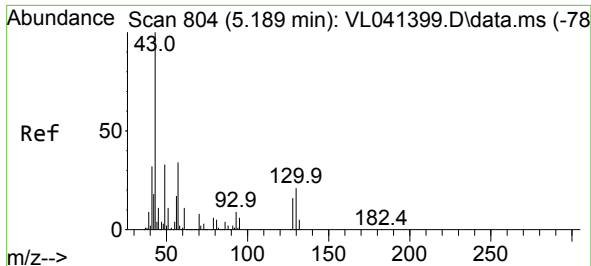
Tgt Ion: 41 Resp: 4074
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 0.0 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.259 ppbv
 RT: 4.626 min Scan# 629
 Delta R.T. 0.000 min
 Lab File: VL041498.D
 Acq: 5 Aug 2024 13:07

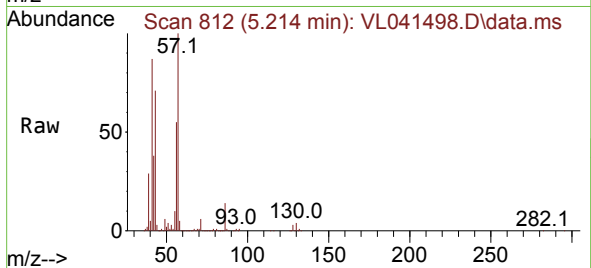
Tgt Ion: 43 Resp: 23074
 Ion Ratio Lower Upper
 43 100
 86 6.8 4.6 6.8
 42 6.9 7.9 11.9#
 44 2.2 4.2 6.4#





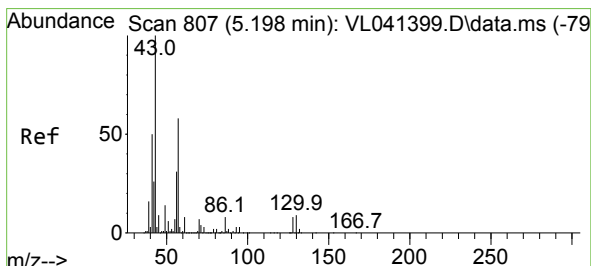
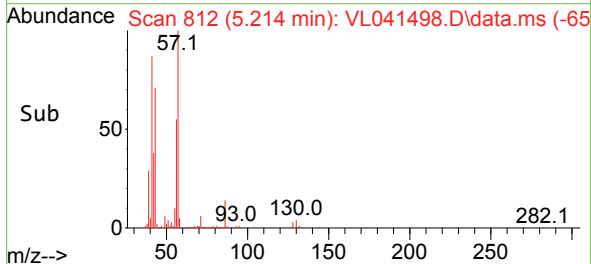
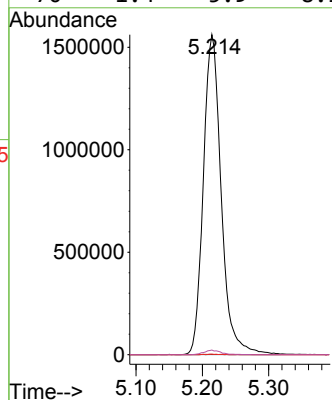
#25
Ethyl Acetate
Concen: 12.638 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 2928061

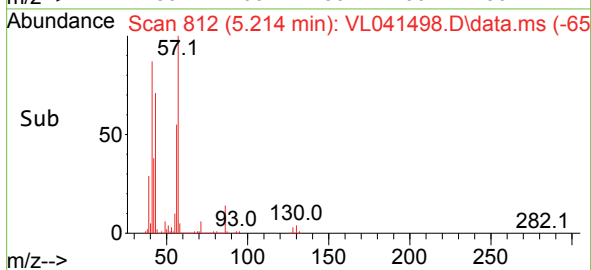
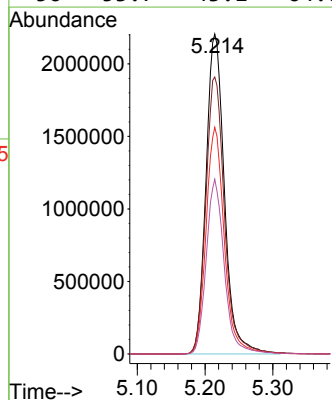
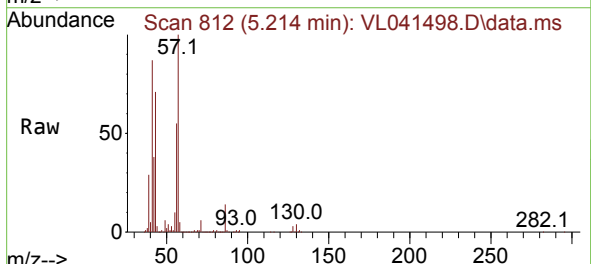
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.5	12.7#
61	0.1	8.0	12.0#
70	1.4	5.9	8.9#

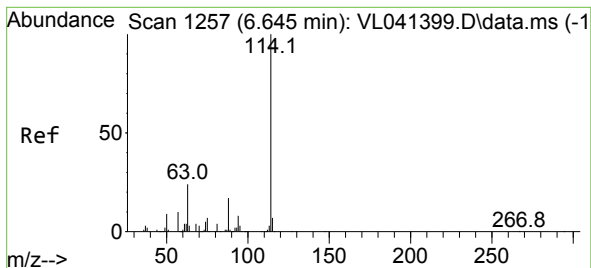


#26
Hexane
Concen: 43.274 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion: 57 Resp: 4159236

Ion	Ratio	Lower	Upper
57	100		
41	88.8	74.0	111.0
43	70.6	193.6	290.4#
56	53.7	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Instrument :

MSVOA_L

ClientSampleId :

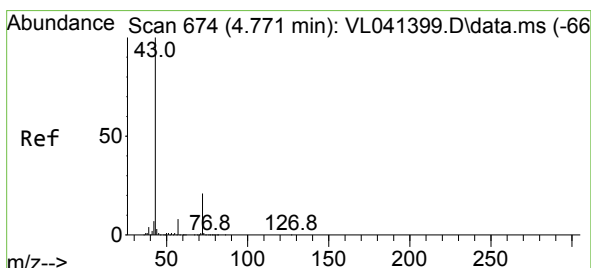
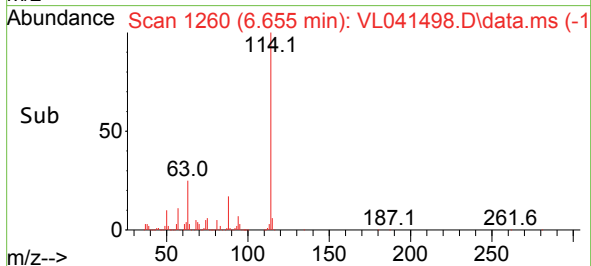
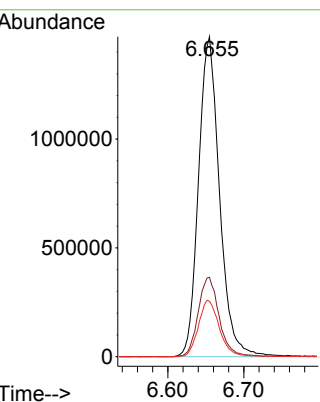
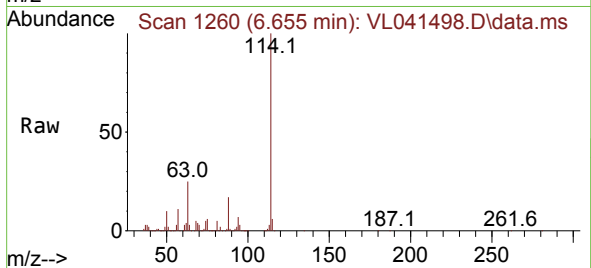
Tgt Ion:114 Resp: 2815282

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 21.294 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.431 min

Lab File: VL041498.D

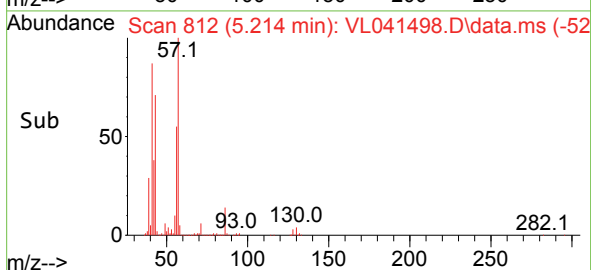
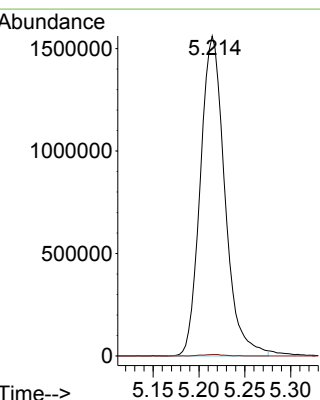
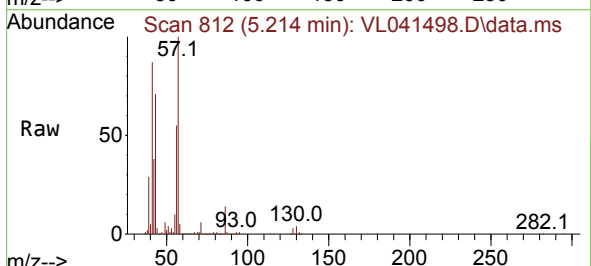
Acq: 5 Aug 2024 13:07

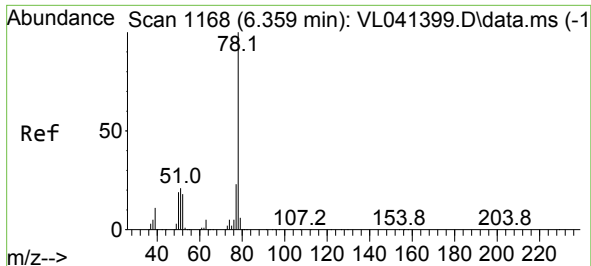
Tgt Ion: 43 Resp: 2899857

Ion Ratio Lower Upper

43 100

72 0.0 17.3 25.9#



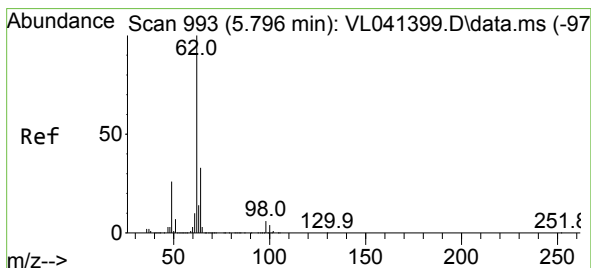
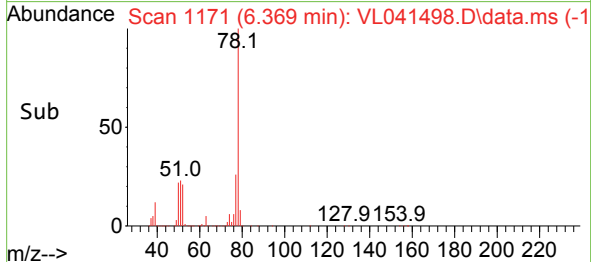
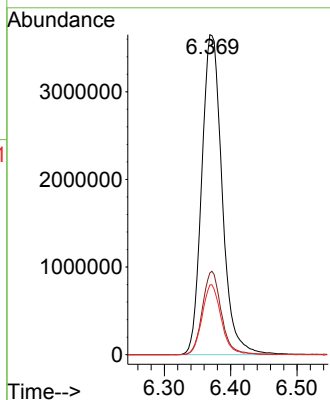
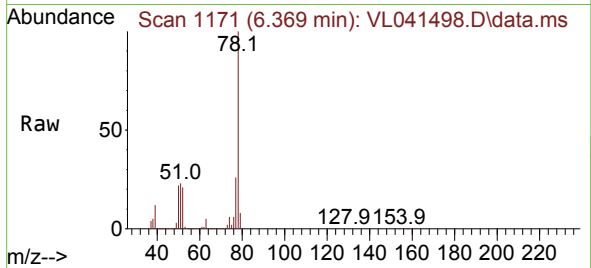


#36
Benzene
Concen: 37.880 ppbv
RT: 6.369 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 7792502

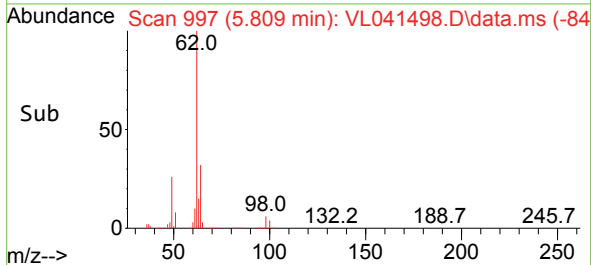
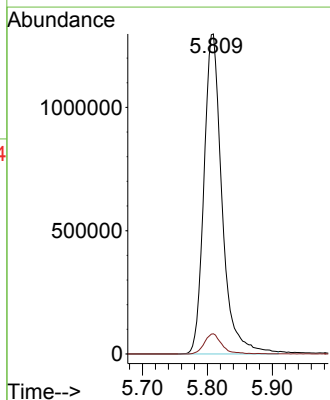
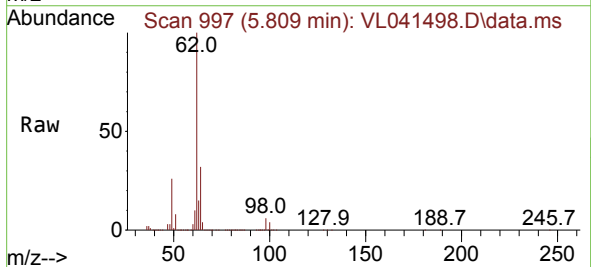
Ion	Ratio	Lower	Upper
78	100		
77	25.6	18.1	27.1
50	21.8	15.5	23.3

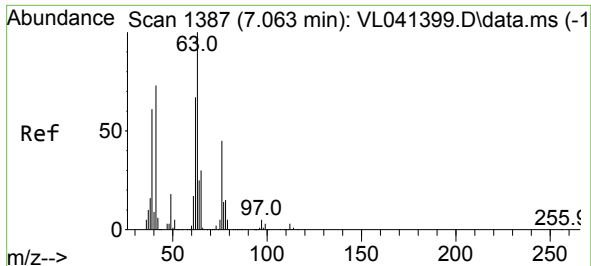


#37
1,2-Dichloroethane
Concen: 21.844 ppbv
RT: 5.809 min Scan# 997
Delta R.T. 0.003 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion: 62 Resp: 2514979

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.0	7.4





#39

1,2-Dichloropropane

Concen: 21.213 ppbv

RT: 7.073 min Scan# 11

Delta R.T. 0.003 min

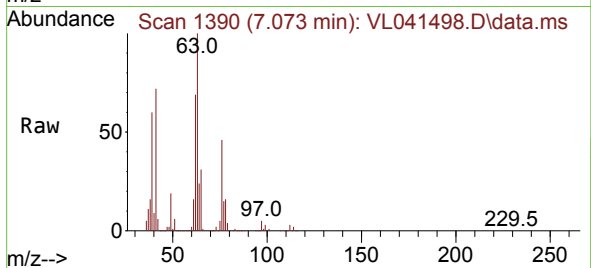
Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Instrument :

MSVOA_L

ClientSampleId :



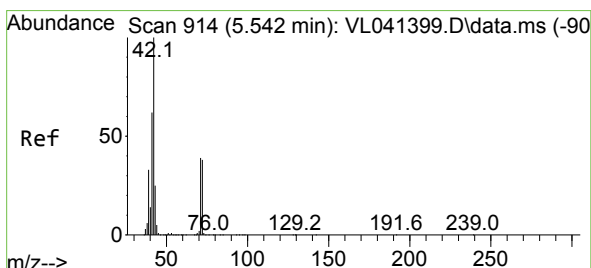
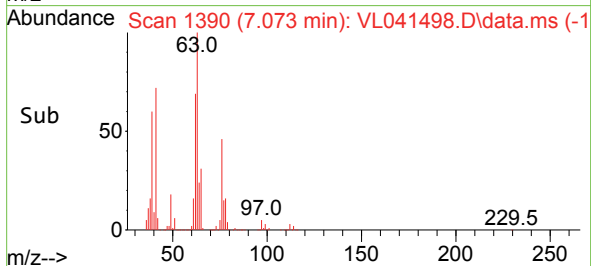
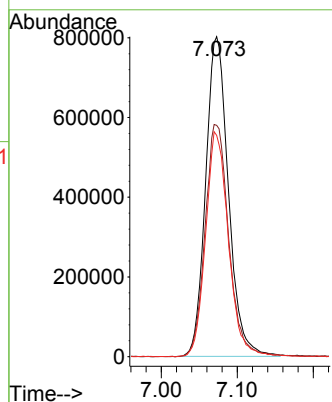
Tgt Ion: 63 Resp: 1670650

Ion Ratio Lower Upper

63 100

41 72.3 58.3 87.5

62 69.0 53.9 80.9



#41

Tetrahydrofuran

Concen: 20.481 ppbv

RT: 5.214 min Scan# 812

Delta R.T. -0.338 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

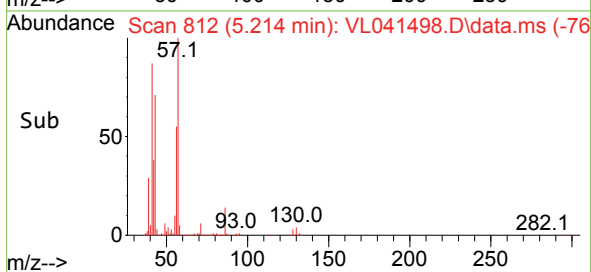
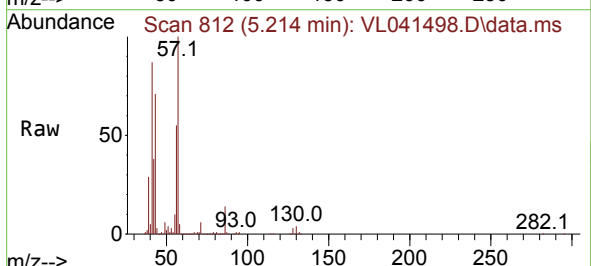
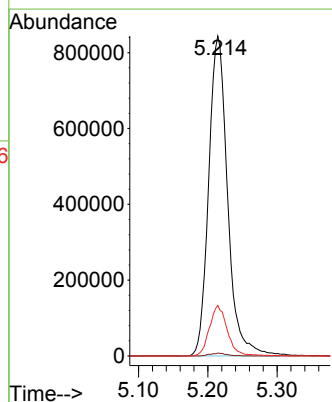
Tgt Ion: 42 Resp: 1595221

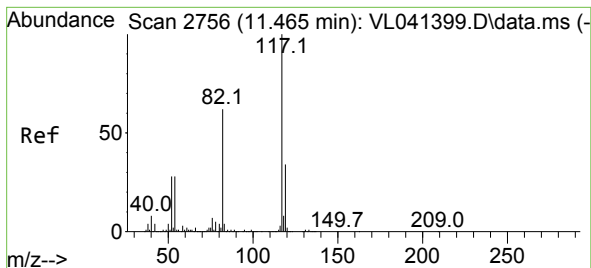
Ion Ratio Lower Upper

42 100

72 0.8 31.2 46.8#

71 15.0 30.5 45.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 21

Delta R.T. 0.003 min

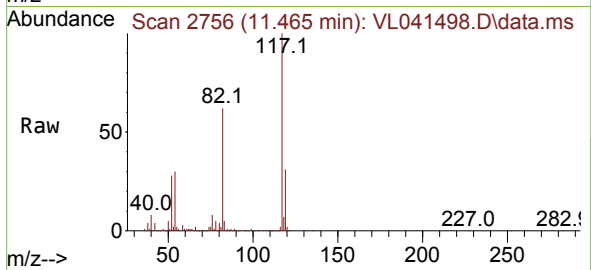
Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Instrument :

MSVOA_L

ClientSampleId :



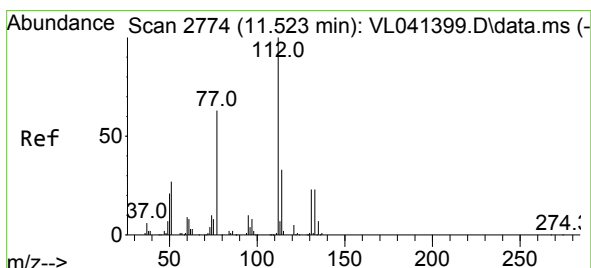
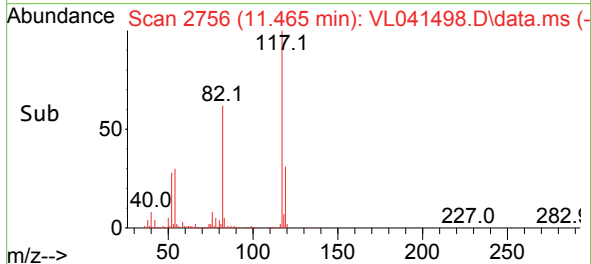
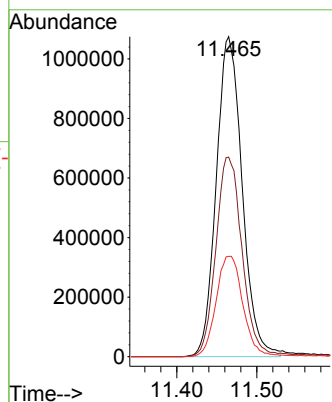
Tgt Ion:117 Resp: 2417190

Ion Ratio Lower Upper

117 100

82 64.5 51.0 76.6

119 33.2 45.2 67.8#



#57

Chlorobenzene

Concen: 19.397 ppbv

RT: 11.526 min Scan# 2775

Delta R.T. 0.007 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

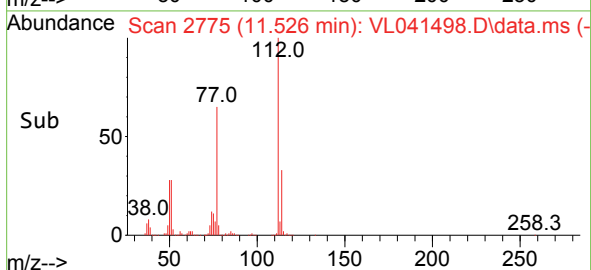
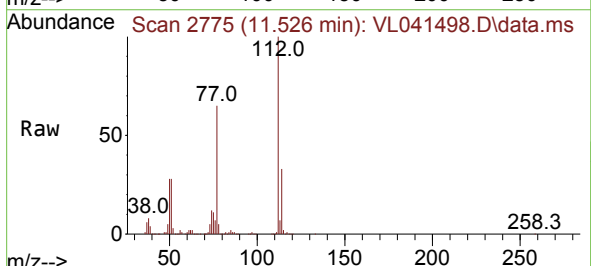
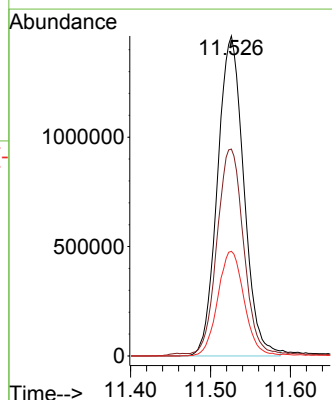
Tgt Ion:112 Resp: 3338216

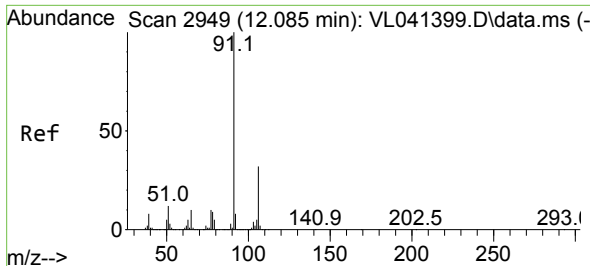
Ion Ratio Lower Upper

112 100

77 63.9 51.1 76.7

114 32.7 29.5 36.1

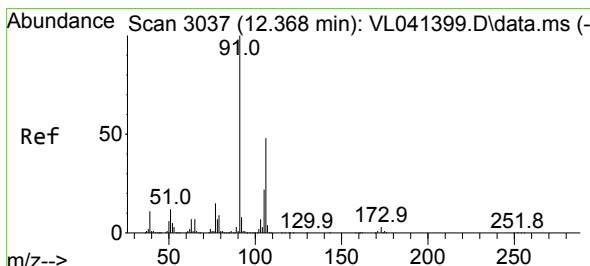
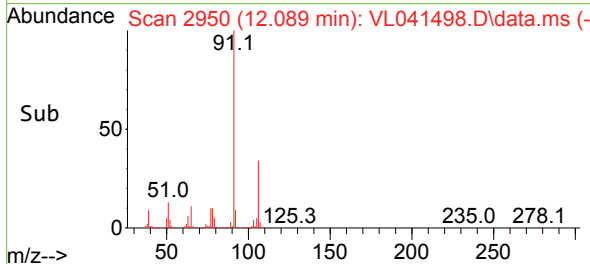
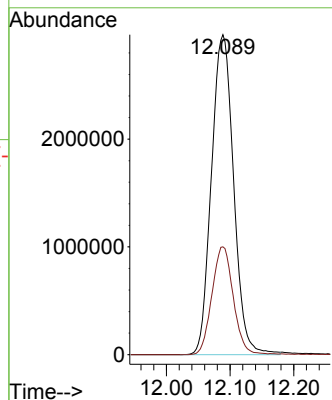
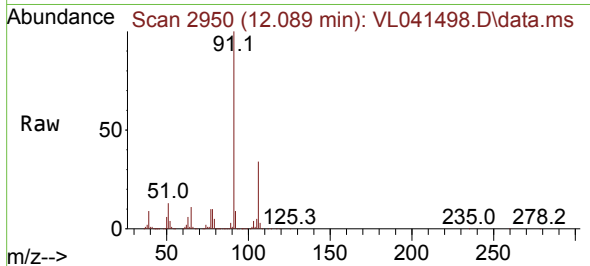




#58
Ethyl Benzene
Concen: 25.811 ppbv
RT: 12.089 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

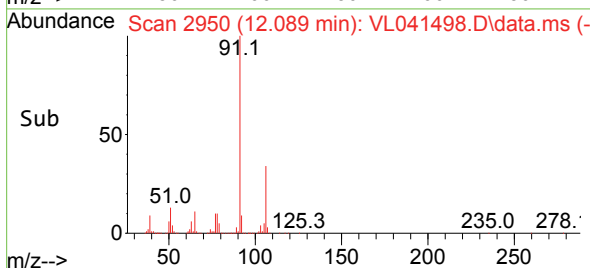
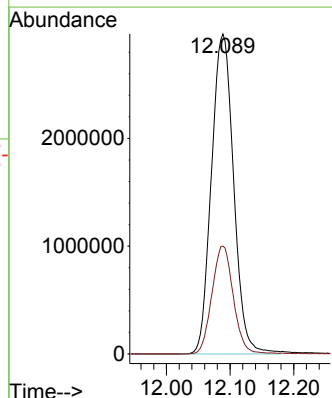
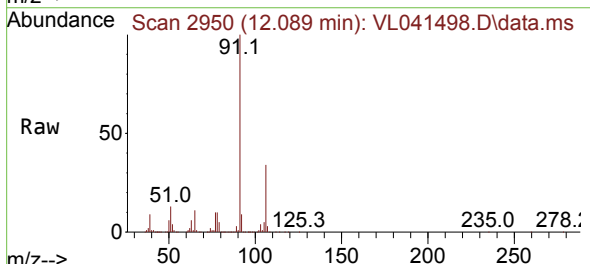
Instrument :
MSVOA_L
ClientSampleId :

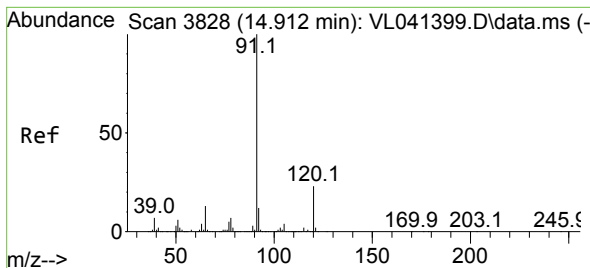
Tgt Ion: 91 Resp: 7191002
Ion Ratio Lower Upper
91 100
106 33.7 25.8 38.8



#59
m/p-Xylene
Concen: 29.899 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. -0.280 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion: 91 Resp: 7191002
Ion Ratio Lower Upper
91 100
106 32.7 36.3 54.5#

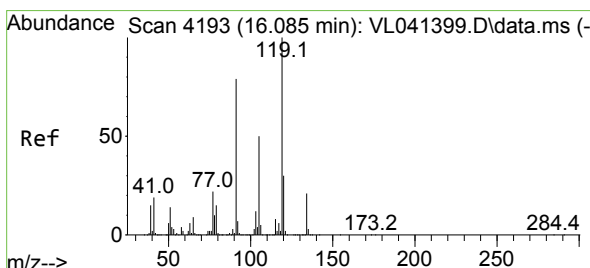
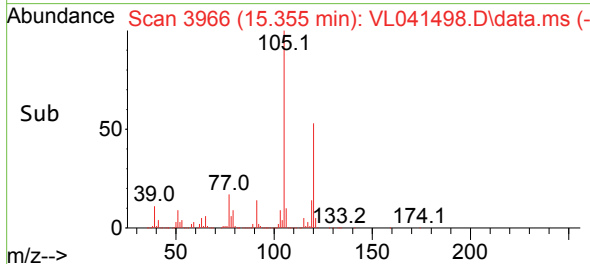
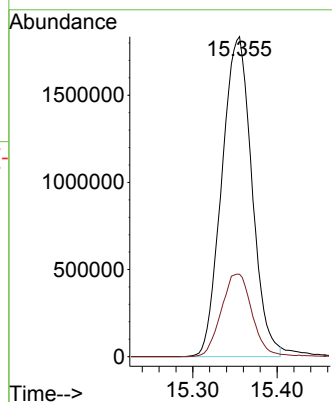
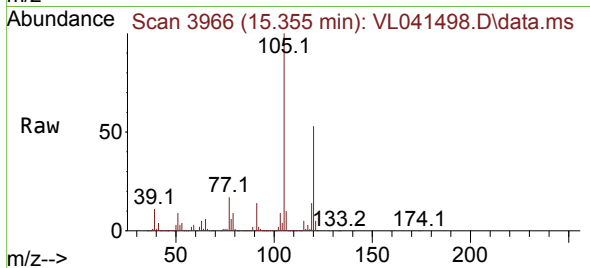




#64
n-propylbenzene
Concen: 50.263 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. 0.444 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

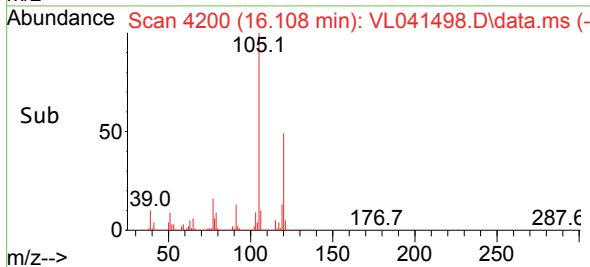
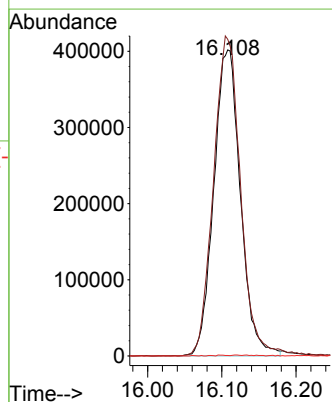
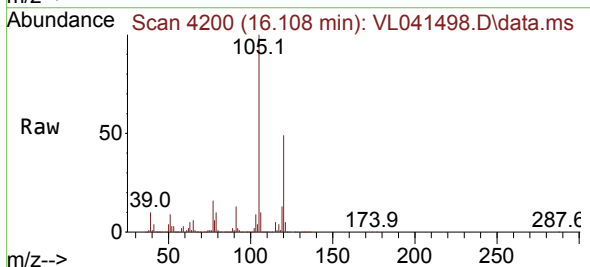
Instrument :
MSVOA_L
ClientSampleId :

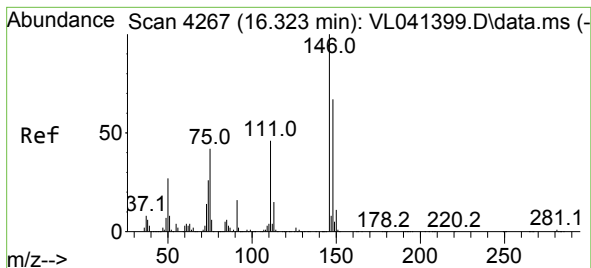
Tgt Ion:120 Resp: 4544957
Ion Ratio Lower Upper
120 100
91 0.0 361.4 542.0#



#65
tert-Butylbenzene
Concen: 3.210 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.026 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion:119 Resp: 1002657
Ion Ratio Lower Upper
119 100
91 106.9 64.2 96.2#
134 0.3 15.7 23.5#

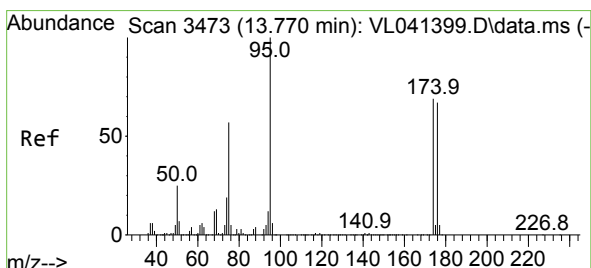
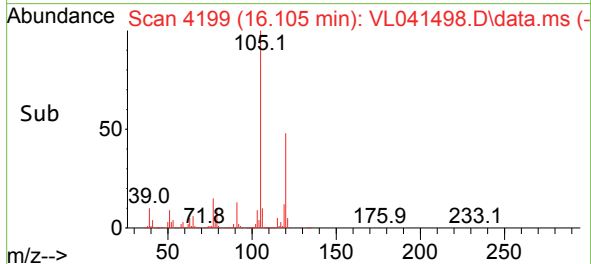
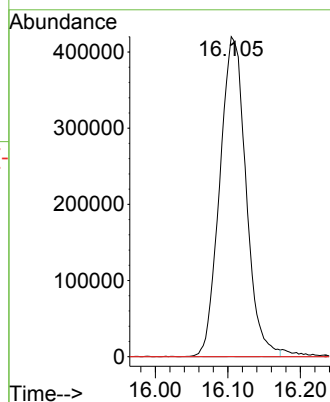
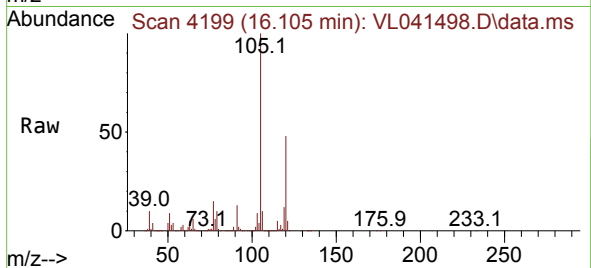




#66
Benzyl Chloride
Concen: 52.679 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. -0.215 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

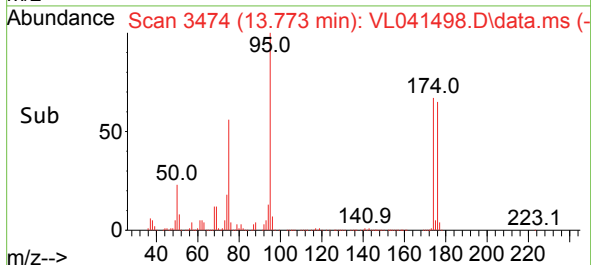
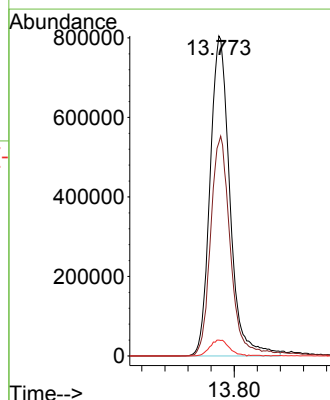
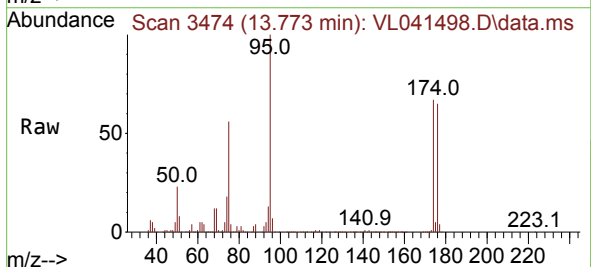
Instrument :
MSVOA_L
ClientSampleId :

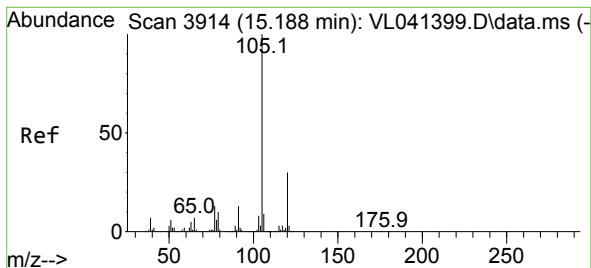
Tgt Ion: 91 Resp: 1055556
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.8#
128 0.0 4.4 6.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.289 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.007 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

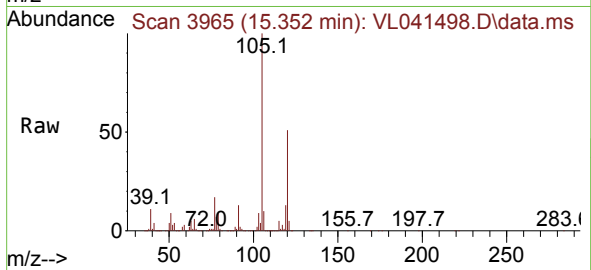
Tgt Ion: 95 Resp: 1913846
Ion Ratio Lower Upper
95 100
174 69.9 56.3 84.5
175 5.0 4.0 6.0



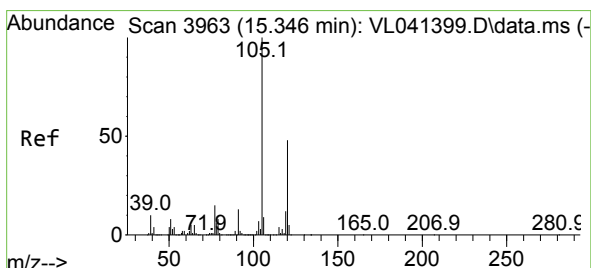
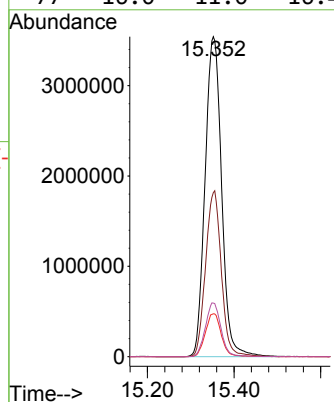
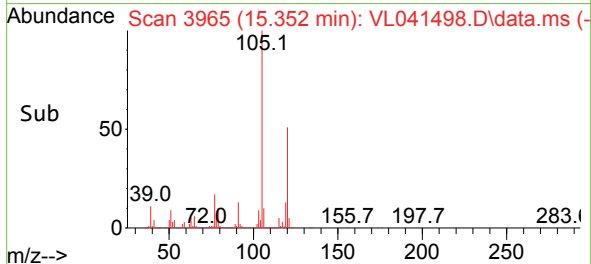


#72
4-Ethyltoluene
Concen: 35.035 ppbv
RT: 15.352 min Scan# 3914
Delta R.T. 0.164 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Instrument :
MSVOA_L
ClientSampleId :

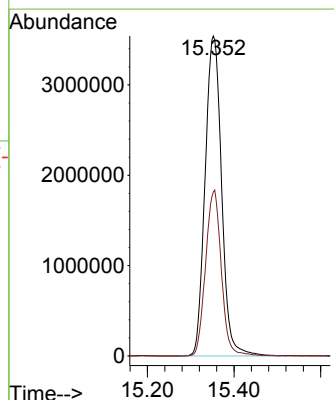
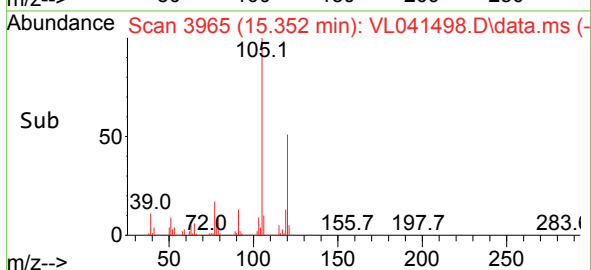
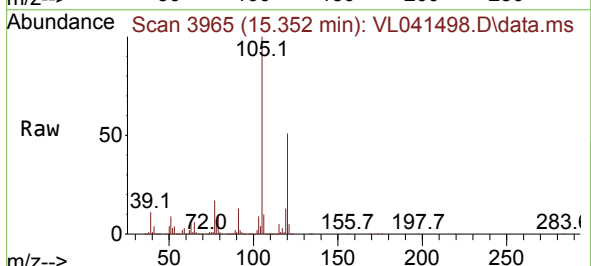


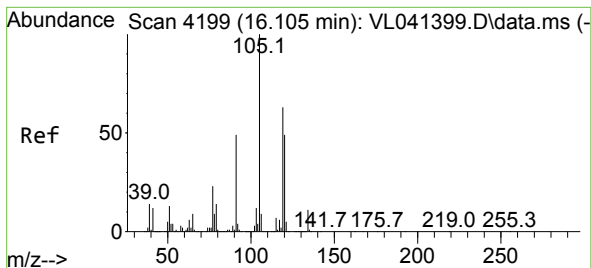
Tgt Ion:105 Resp: 9384285
Ion Ratio Lower Upper
105 100
120 49.4 24.2 36.2#
91 13.0 10.4 15.6
77 16.0 11.0 16.4



#73
1,3,5-Trimethylbenzene
Concen: 40.668 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. 0.007 min
Lab File: VL041498.D
Acq: 5 Aug 2024 13:07

Tgt Ion:105 Resp: 9384285
Ion Ratio Lower Upper
105 100
120 51.2 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 31.418 ppbv

RT: 16.108 min Scan# 4199

Delta R.T. 0.007 min

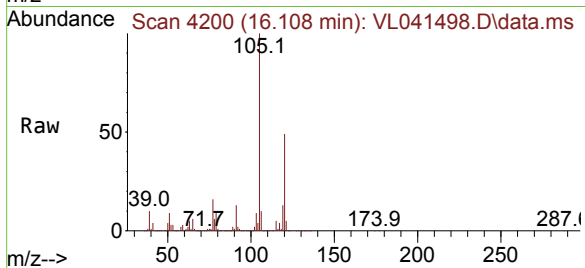
Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 8428678

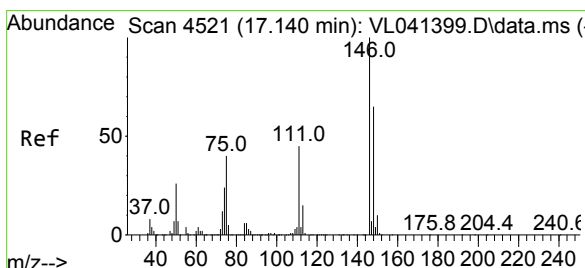
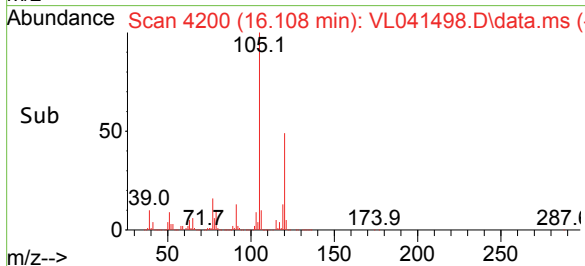
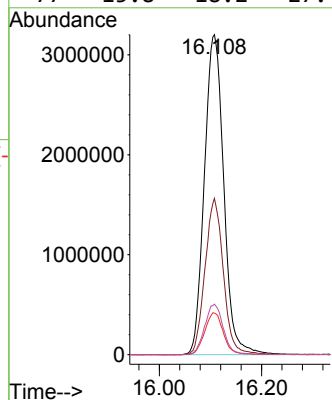
Ion Ratio Lower Upper

105 100

120 48.9 39.5 59.3

91 13.0 39.8 59.8#

77 15.8 18.2 27.4#



#77

1,2-Dichlorobenzene

Concen: 0.061 ppbv

RT: 17.143 min Scan# 4522

Delta R.T. 0.007 min

Lab File: VL041498.D

Acq: 5 Aug 2024 13:07

Tgt Ion:146 Resp: 10161

Ion Ratio Lower Upper

146 100

111 76.7 23.4 70.0#

148 108.5 32.2 96.6#

