

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040380.D
 Acq On : 19 Apr 2023 15:13
 Operator : SY/MD
 Sample : 02368-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP04-A

Quant Time: Apr 20 05:10:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

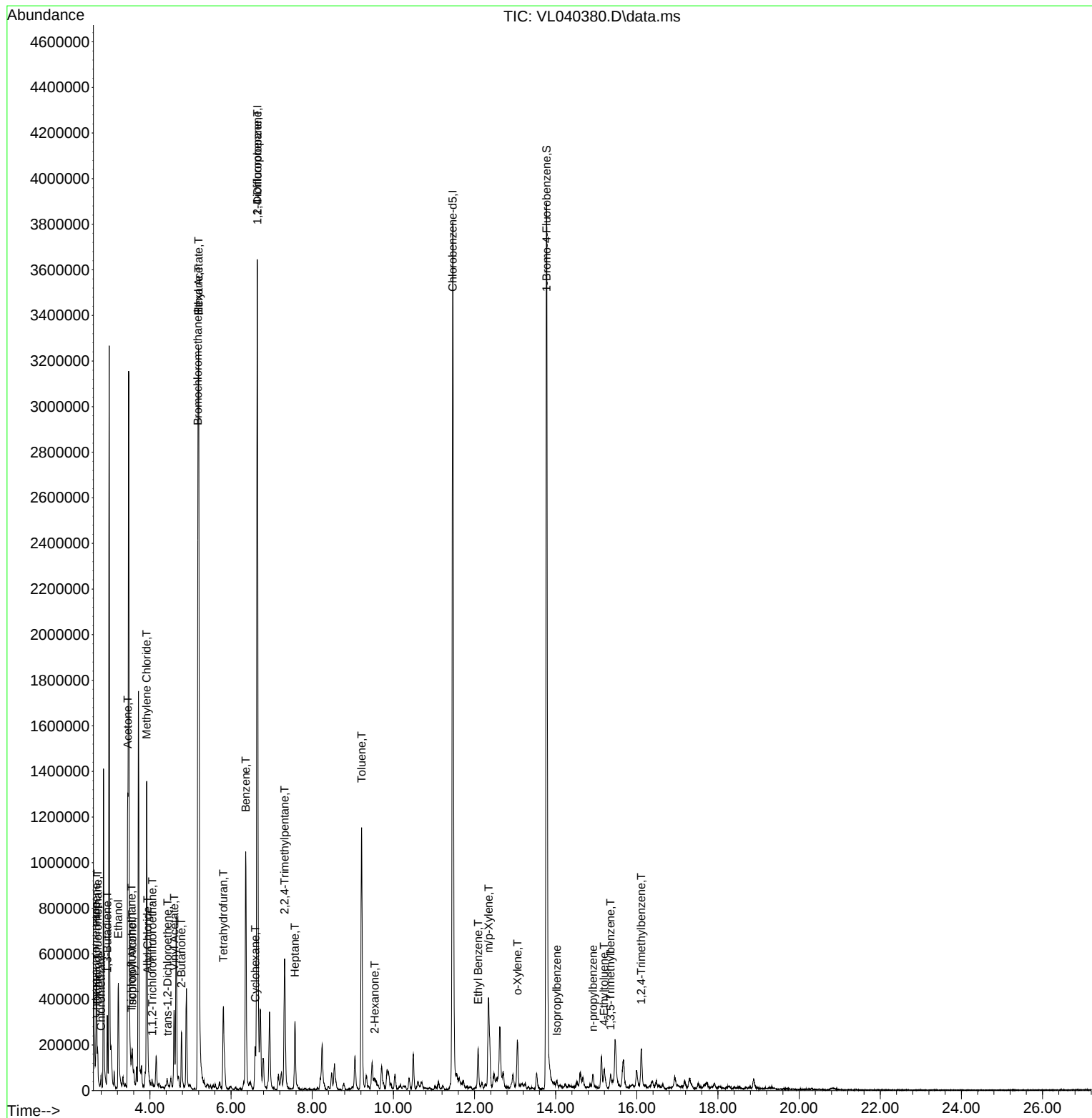
Internal Standards						
1) Bromochloromethane	5.182	49	1094311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2749322	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2436391	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1967832	9.767	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	93445	0.474	ppbv	93
3) Chlorodifluoromethane	2.658	51	88886	0.622	ppbv #	82
4) Chloromethane	2.796	50	39483	0.437	ppbv	100
9) Propene	2.677	41	195527	3.461	ppbv	93
10) Heptane	7.574	43	113659	0.885	ppbv	97
11) Trichlorofluoromethane	3.546	101	40977	0.205	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.057	101	9216	0.066	ppbv	100
13) Ethanol	3.221	45	494213	104.794	ppbv	98
15) Acetone	3.452	43	1071917	6.916	ppbv #	82
16) 1,3-Butadiene	2.951	39	78141	1.218	ppbv #	19
19) Isopropyl Alcohol	3.568	45	131654	1.862	ppbv #	1
20) Methylene Chloride	3.918	84	447871	7.238	ppbv	99
21) Allyl Chloride	3.944	41	8873	0.101	ppbv #	1
22) trans-1,2-Dichloroethene	4.433	96	2603	0.041	ppbv #	57
23) Vinyl Acetate	4.600	43	140828	3.569	ppbv #	1
25) Ethyl Acetate	5.201	43	740149	2.838	ppbv #	77
26) Hexane	5.201	57	1026167	9.333	ppbv #	38
30) Cyclohexane	6.600	84	55003	0.646	ppbv #	91
34) 2-Butanone	4.777	43	283673	1.913	ppbv	100
36) Benzene	6.359	78	866739	3.864	ppbv	99
39) 1,2-Dichloropropane	6.648	63	680816	7.714	ppbv #	24
41) Tetrahydrofuran	5.809	42	27596	0.340	ppbv #	34
44) 2,2,4-Trimethylpentane	7.320	57	476745	1.272	ppbv #	86
51) 2-Hexanone	9.542	43	7120	0.043	ppbv #	30
53) Toluene	9.217	91	786550	3.308	ppbv	99
58) Ethyl Benzene	12.092	91	148867	0.497	ppbv	93
59) m/p-Xylene	12.346	91	424561	1.540	ppbv	100
60) o-Xylene	13.056	91	93775	0.355	ppbv #	32
62) Isopropylbenzene	14.027	105	20924	0.055	ppbv	95
64) n-propylbenzene	14.921	120	3077	0.033	ppbv #	1
72) 4-Ethyltoluene	15.191	105	32609	0.112	ppbv #	50
73) 1,3,5-Trimethylbenzene	15.352	105	22760	0.084	ppbv	91
74) 1,2,4-Trimethylbenzene	16.108	105	75260	0.244	ppbv #	63

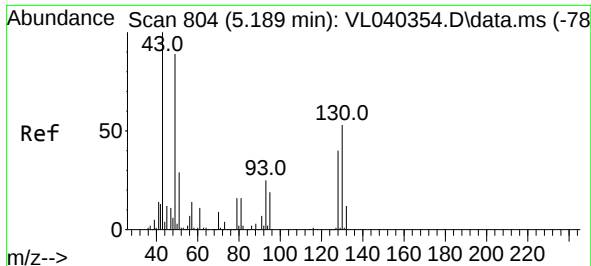
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL040380.D
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Instrument :
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AP04-A

Quant Time: Apr 20 05:10:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

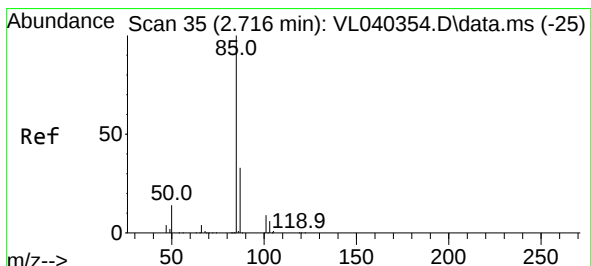
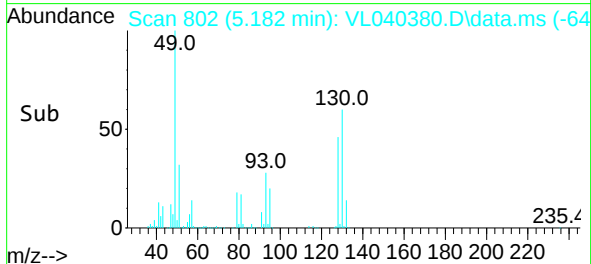
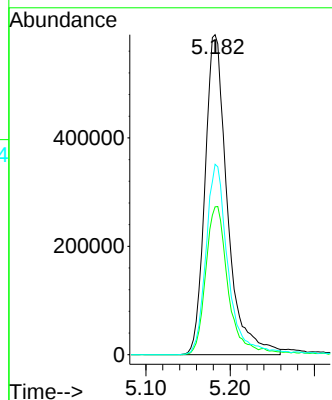
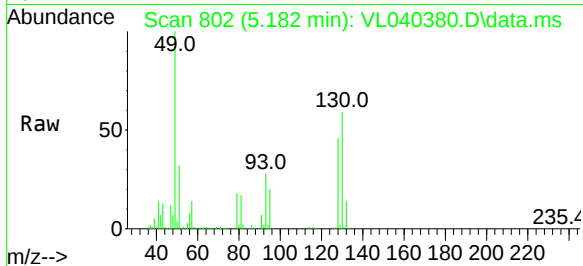




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13

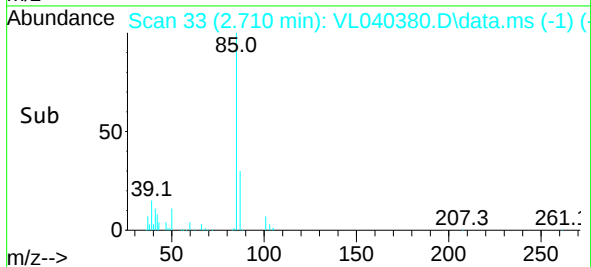
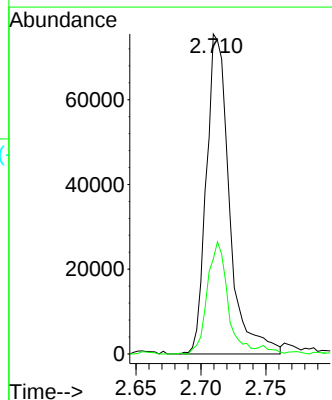
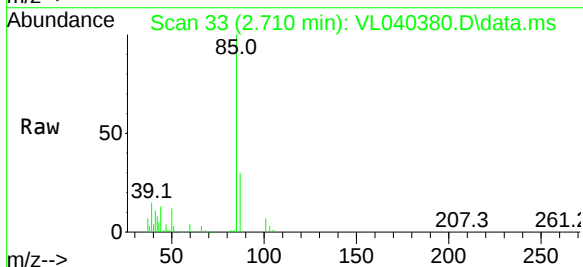
Instrument :
 MSVOA_L
 ClientSampleId :
 AP04-A

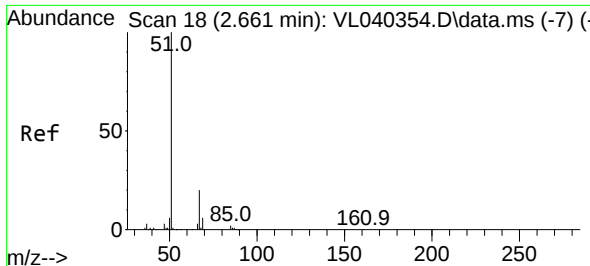
Tgt Ion: 49 Resp: 1094311
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.7 71.1
 130 59.8 29.9 89.8



#2
 Dichlorodifluoromethane
 Concen: 0.474 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. -0.006 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13

Tgt Ion: 85 Resp: 93445
 Ion Ratio Lower Upper
 85 100
 87 29.5 26.6 40.0

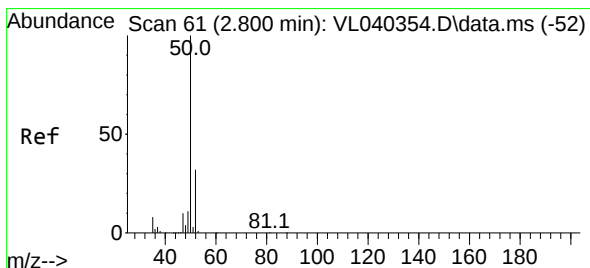
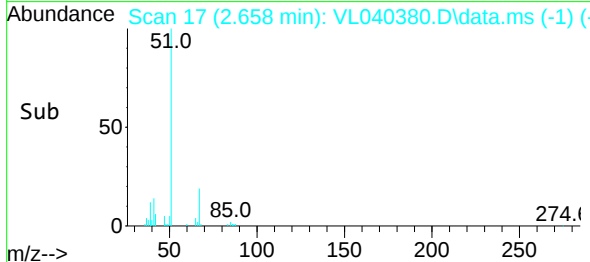
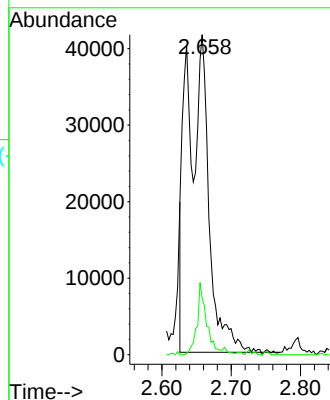
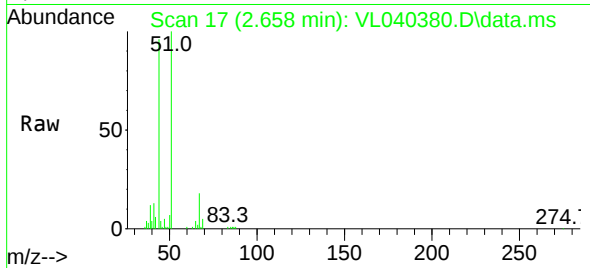




#3
Chlorodifluoromethane
Concen: 0.622 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

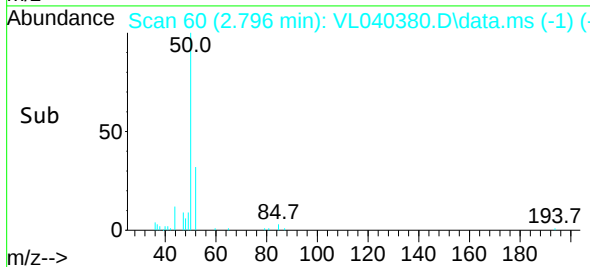
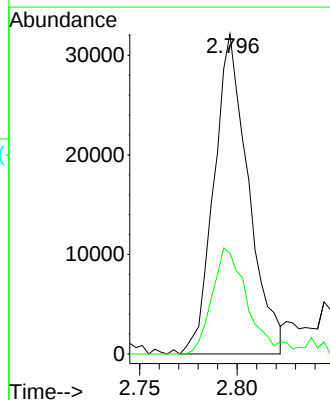
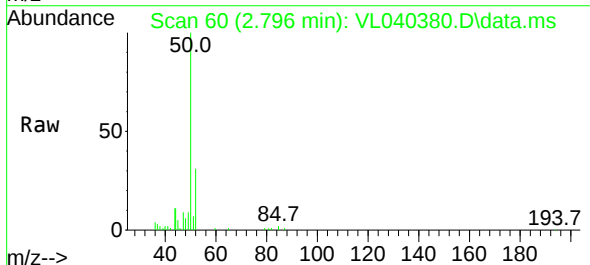
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

Tgt Ion: 51 Resp: 88886
Ion Ratio Lower Upper
51 100
67 11.2 15.5 23.3#

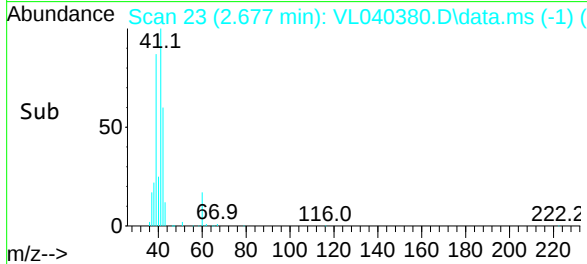
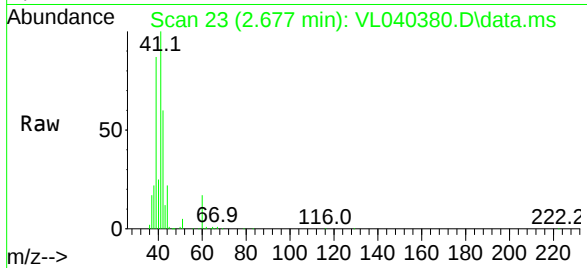
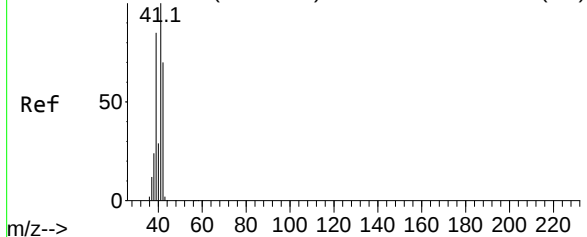


#4
Chloromethane
Concen: 0.437 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 50 Resp: 39483
Ion Ratio Lower Upper
50 100
52 31.5 25.3 37.9



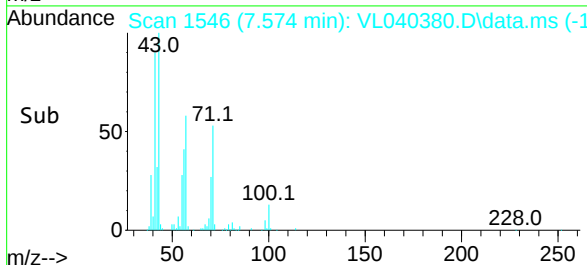
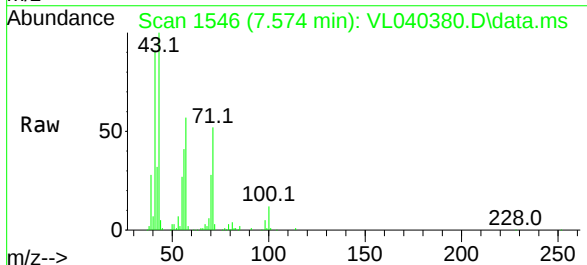
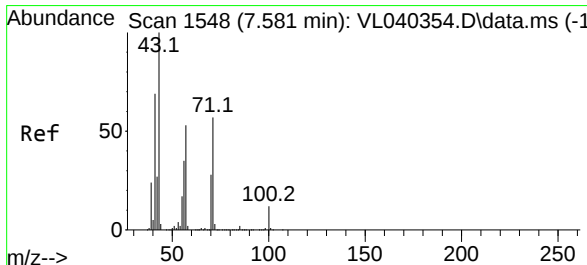
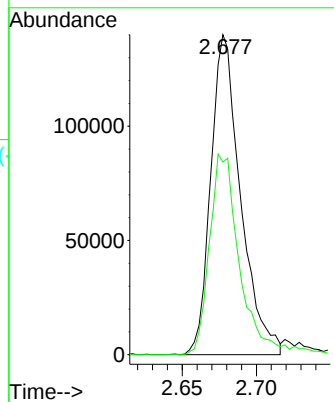
Abundance Scan 24 (2.681 min): VL040354.D\data.ms (-15)



#9
Propene
Concen: 3.461 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

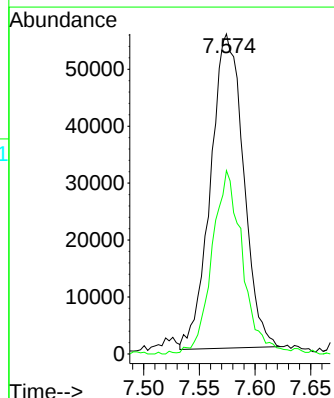
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

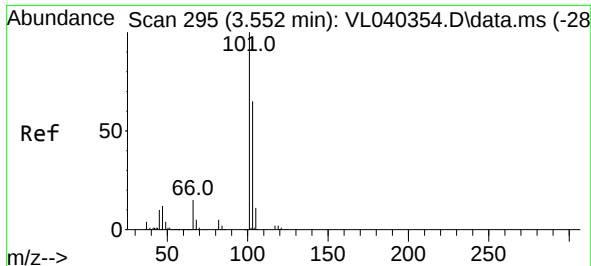
Tgt Ion: 41 Resp: 195527
Ion Ratio Lower Upper
41 100
42 64.6 56.5 84.7



#10
Heptane
Concen: 0.885 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 43 Resp: 113659
Ion Ratio Lower Upper
43 100
57 54.7 42.2 63.4

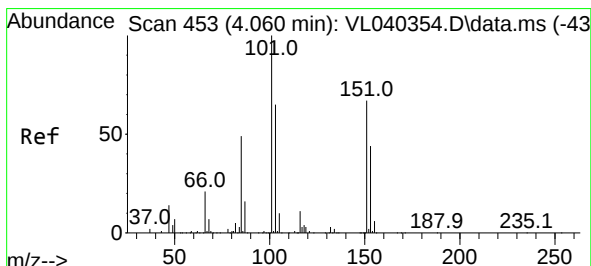
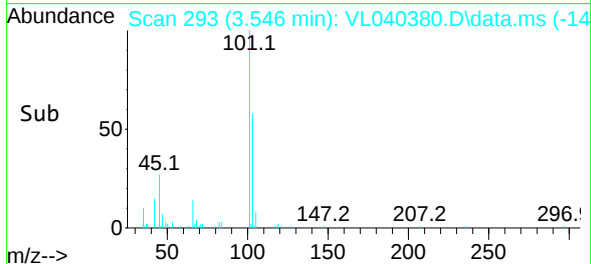
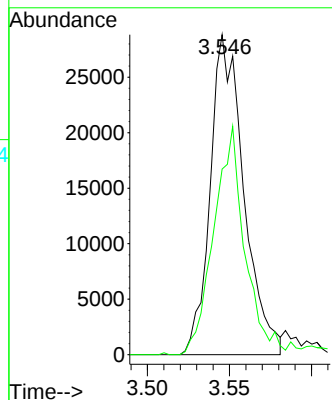
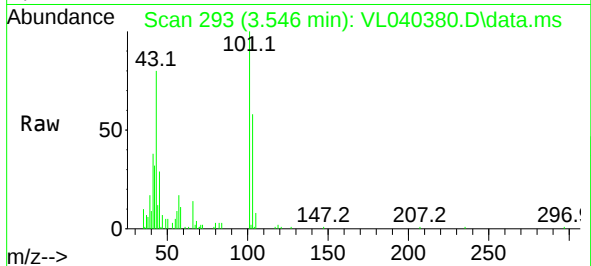




#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.546 min Scan# 295
 Delta R.T. -0.006 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13

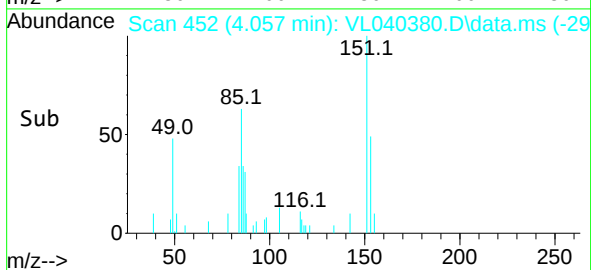
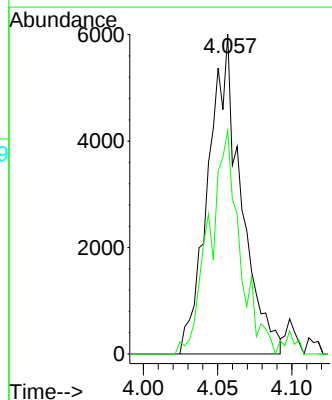
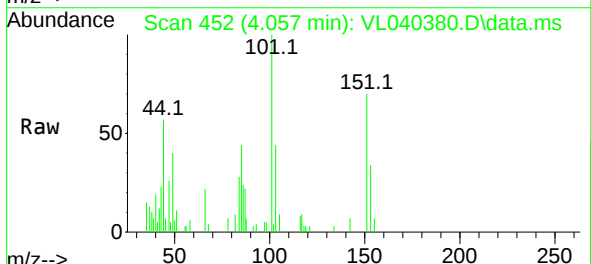
Instrument :
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 ClientSampleId :
 AP04-A

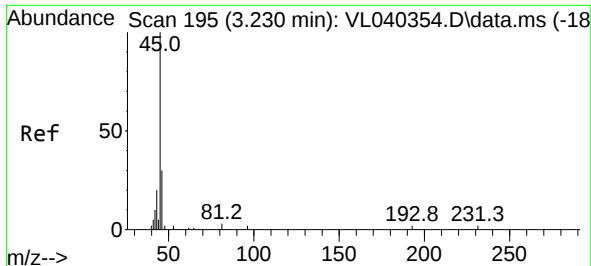
Tgt Ion:101 Resp: 40977
 Ion Ratio Lower Upper
 101 100
 103 58.0 52.2 78.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.066 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. -0.003 min
 Lab File: VL040380.D
 Acq: 19 Apr 2023 15:13

Tgt Ion:101 Resp: 9216
 Ion Ratio Lower Upper
 101 100
 151 68.2 54.7 82.1

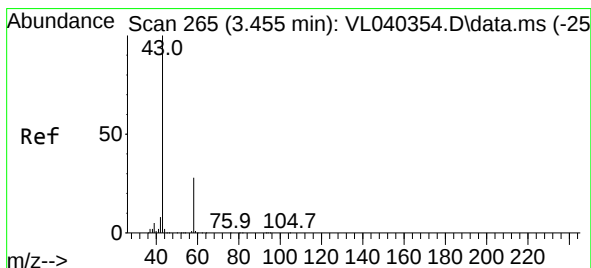
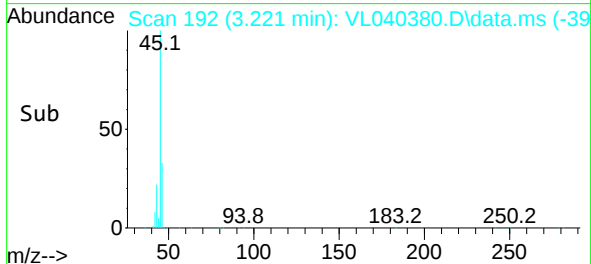
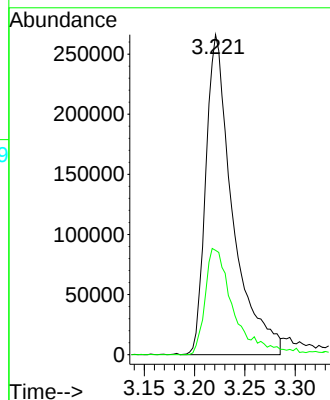
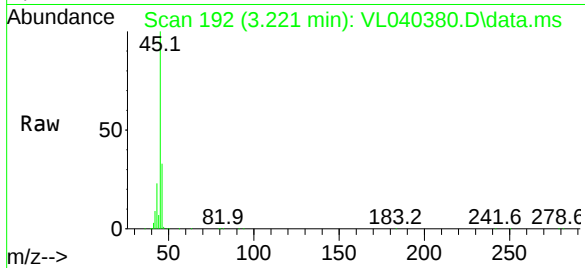




#13
Ethanol
Concen: 104.794 ppbv
RT: 3.221 min Scan# 19
Delta R.T. -0.009 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

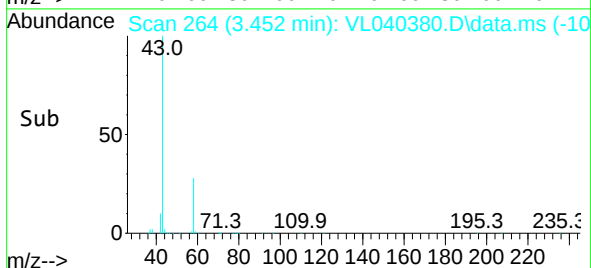
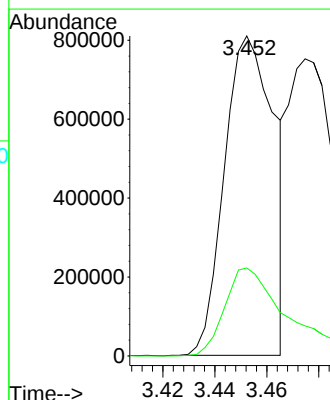
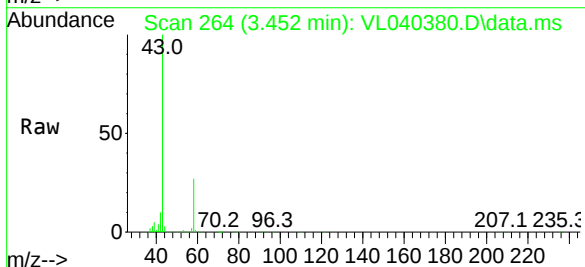
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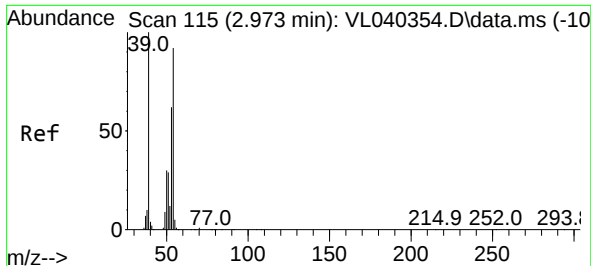
Tgt Ion: 45 Resp: 494213
Ion Ratio Lower Upper
45 100
46 37.1 15.3 61.3



#15
Acetone
Concen: 6.916 ppbv
RT: 3.452 min Scan# 264
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 43 Resp: 1071917
Ion Ratio Lower Upper
43 100
58 37.2 22.2 33.2#

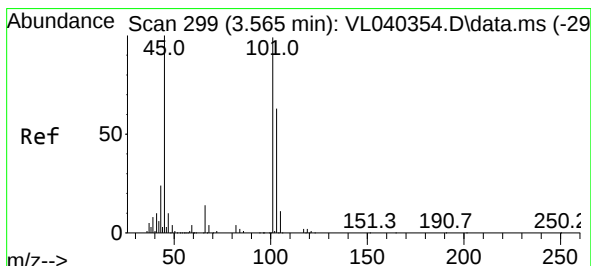
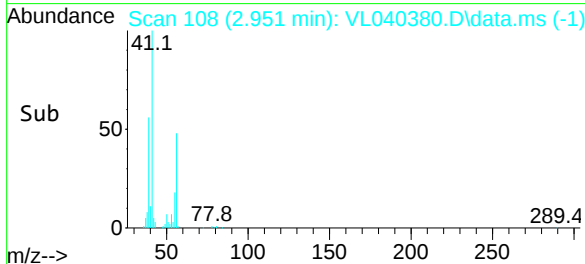
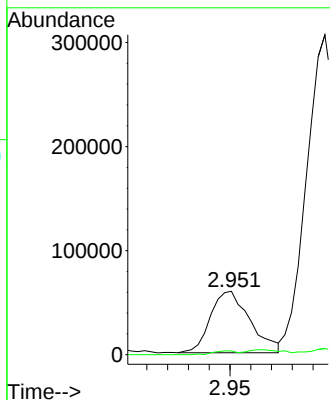
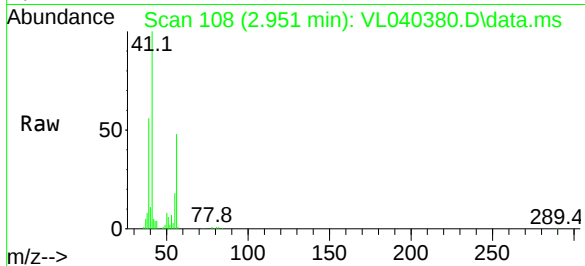




#16
1,3-Butadiene
Concen: 1.218 ppbv
RT: 2.951 min Scan# 115
Delta R.T. -0.022 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

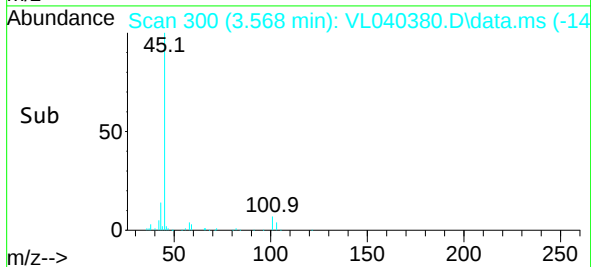
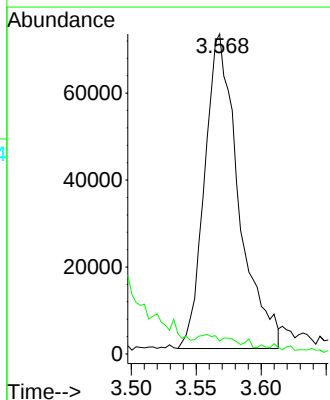
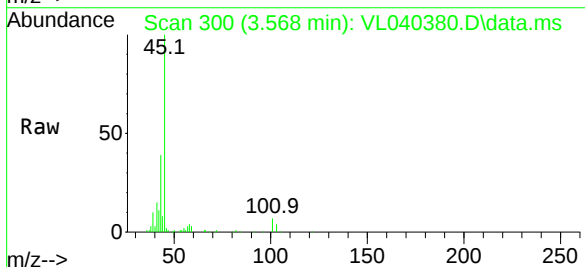
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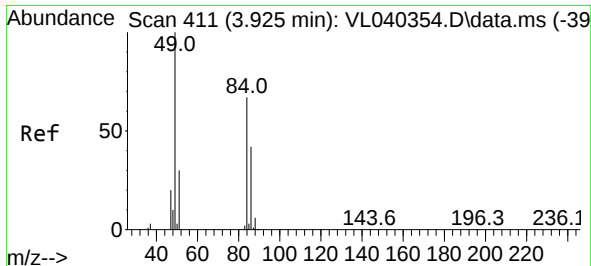
Tgt Ion: 39 Resp: 78141
Ion Ratio Lower Upper
39 100
54 11.4 68.8 103.2#



#19
Isopropyl Alcohol
Concen: 1.862 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 45 Resp: 131654
Ion Ratio Lower Upper
45 100
58 313.2 2.6 4.0#

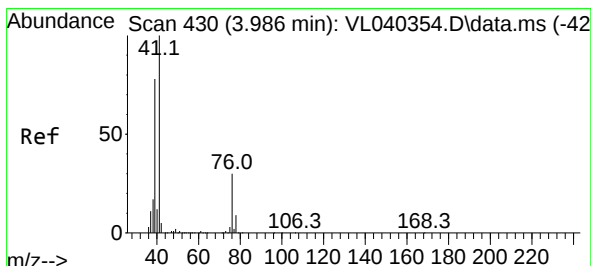
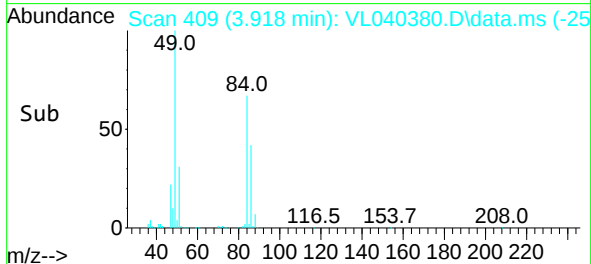
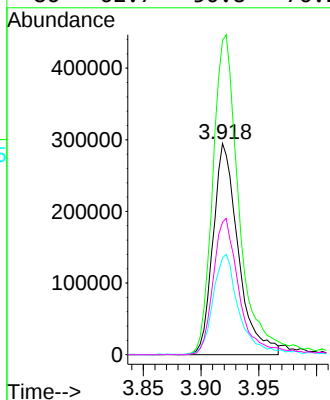
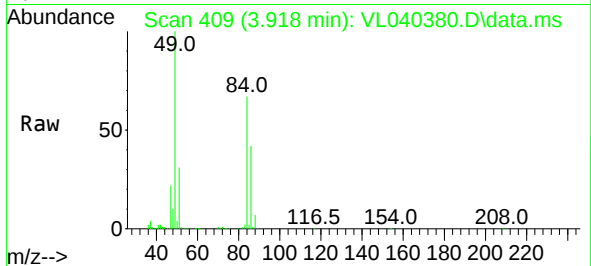




#20
Methylene Chloride
Concen: 7.238 ppbv
RT: 3.918 min Scan# 411
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

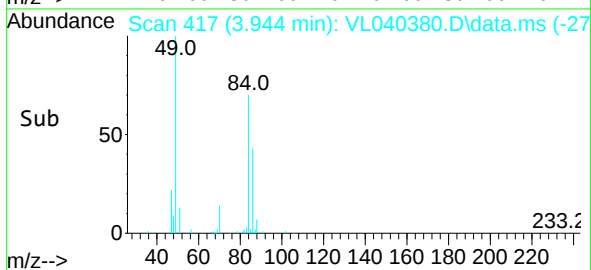
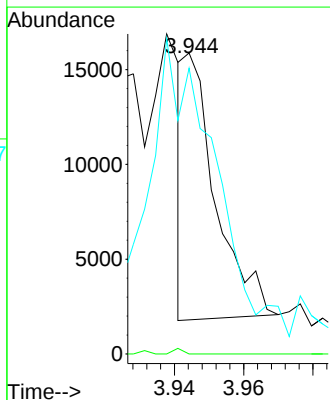
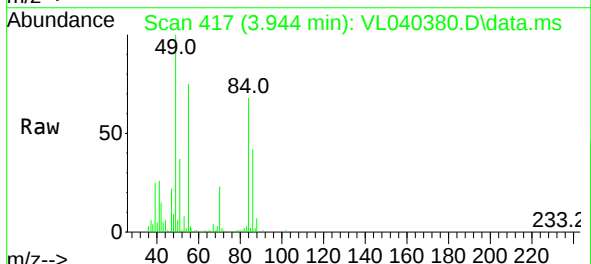
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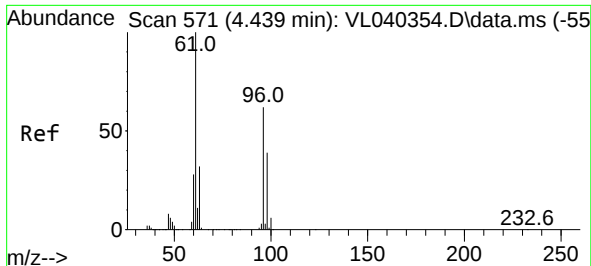
Tgt Ion: 84 Resp: 447871
Ion Ratio Lower Upper
84 100
49 148.7 120.1 180.1
51 45.7 36.3 54.5
86 62.7 50.8 76.2



#21
Allyl Chloride
Concen: 0.101 ppbv
RT: 3.944 min Scan# 417
Delta R.T. -0.042 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 41 Resp: 8873
Ion Ratio Lower Upper
41 100
76 1.8 25.5 38.3#
39 326.3 64.0 96.0#

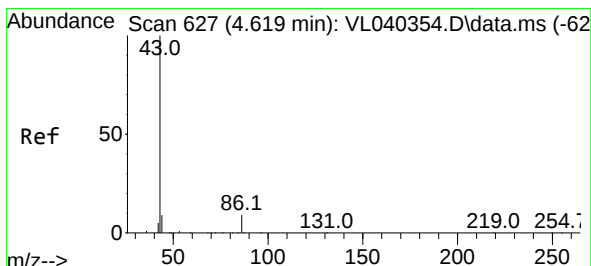
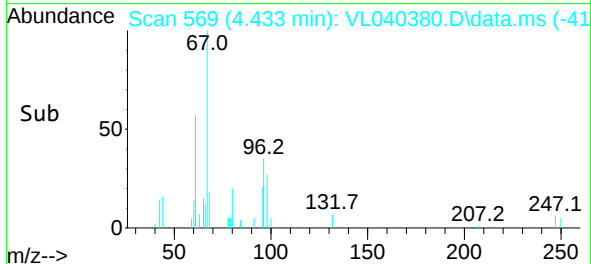
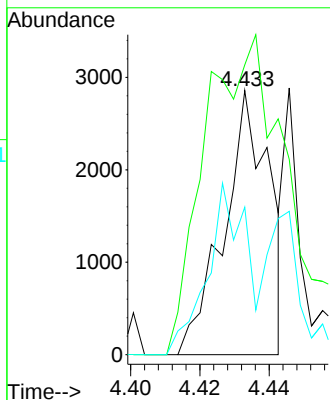
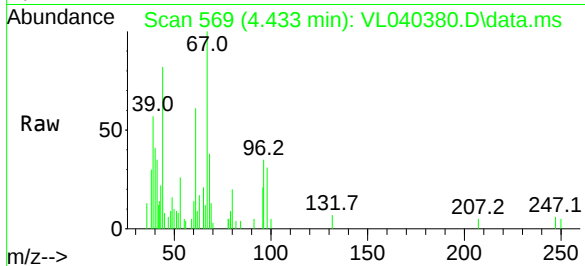




#22
trans-1,2-Dichloroethene
Concen: 0.041 ppbv
RT: 4.433 min Scan# 571
Delta R.T. -0.006 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

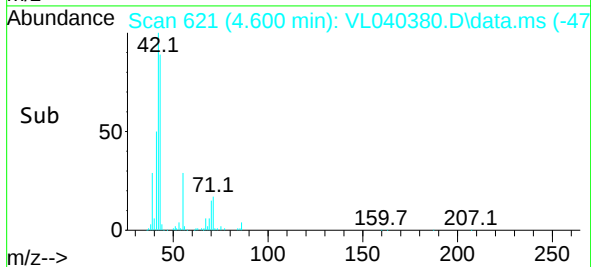
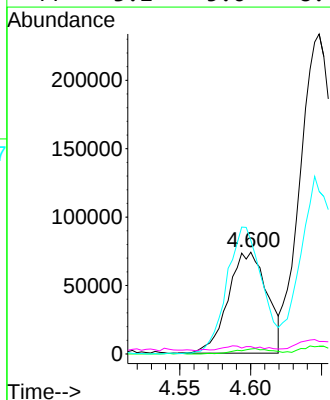
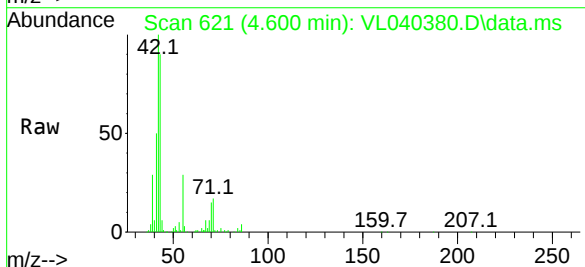
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

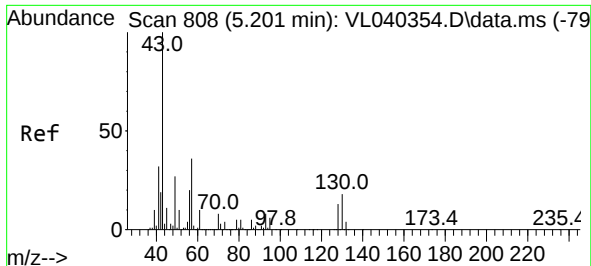
Tgt Ion: 96 Resp: 2603
Ion Ratio Lower Upper
96 100
61 93.6 129.4 194.2#
98 46.9 51.0 76.4#



#23
Vinyl Acetate
Concen: 3.569 ppbv
RT: 4.600 min Scan# 621
Delta R.T. -0.019 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 43 Resp: 140828
Ion Ratio Lower Upper
43 100
86 4.6 6.0 9.0#
42 111.9 6.4 9.6#
44 3.2 5.6 8.4#



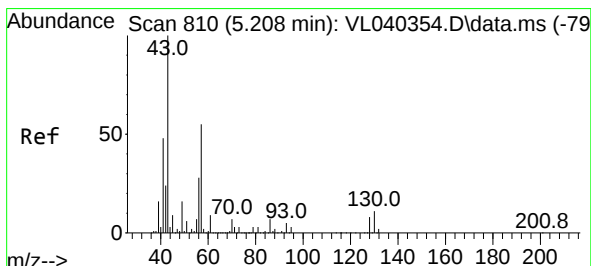
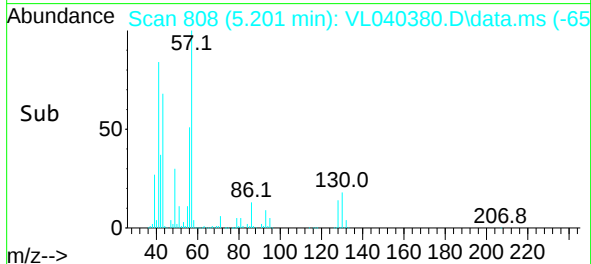
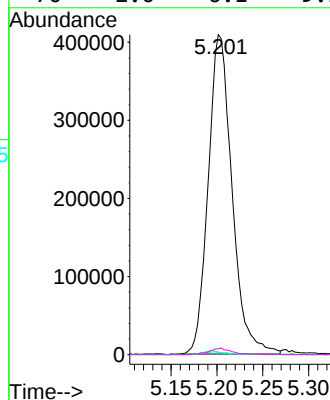
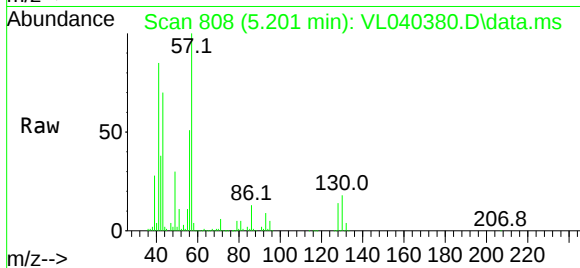


#25
Ethyl Acetate
Concen: 2.838 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.000 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
AP04-A

Tgt Ion: 43 Resp: 740149

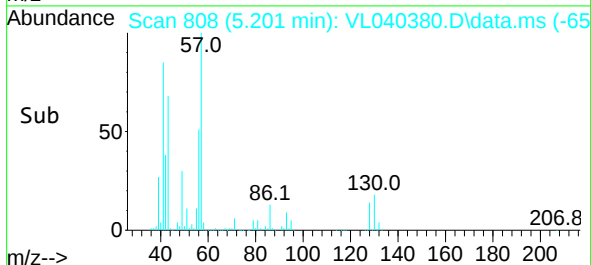
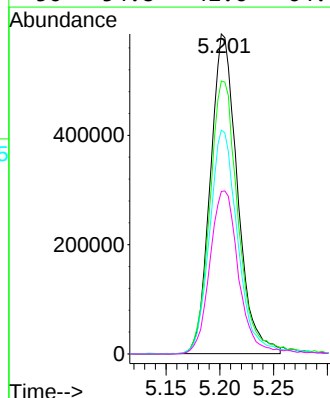
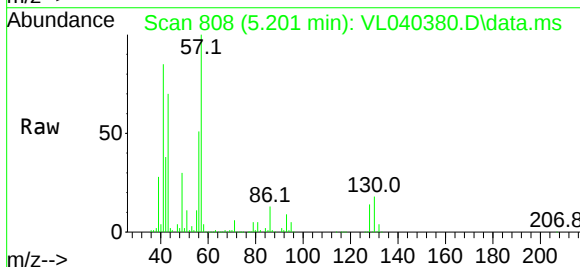
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.5	12.7#
61	0.9	8.5	12.7#
70	2.0	6.1	9.1#

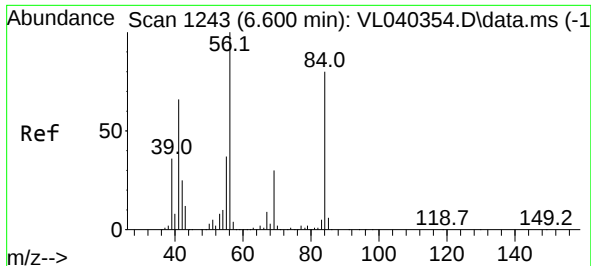


#26
Hexane
Concen: 9.333 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 57 Resp: 1026167

Ion	Ratio	Lower	Upper
57	100		
41	90.4	74.8	112.2
43	73.9	192.7	289.1#
56	54.8	42.6	64.0

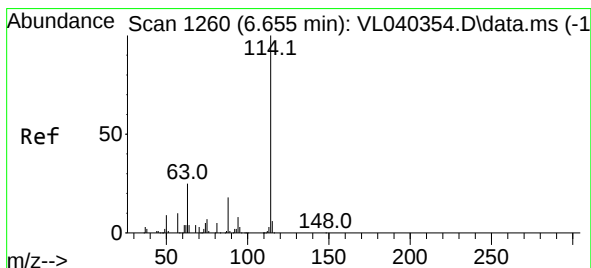
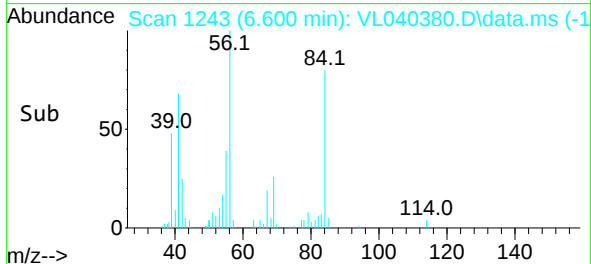
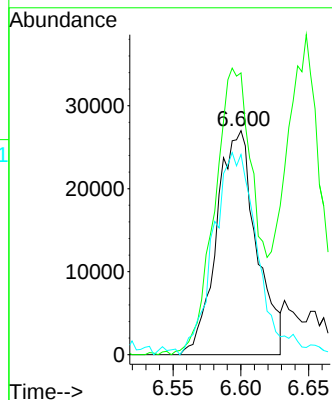
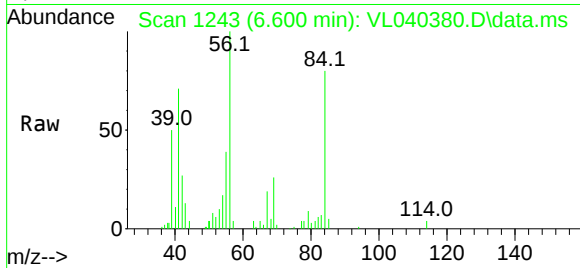




#30
Cyclohexane
Concen: 0.646 ppbv
RT: 6.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

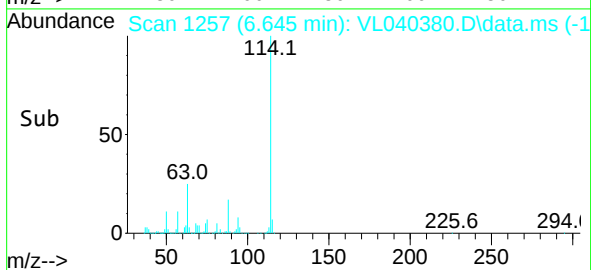
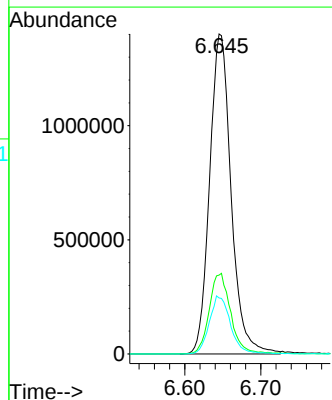
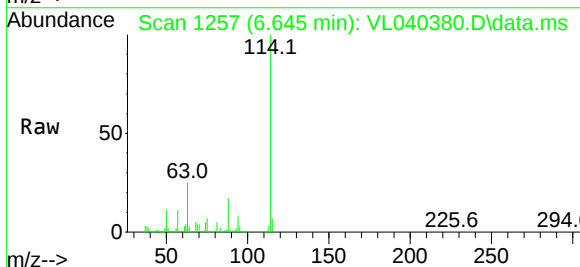
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

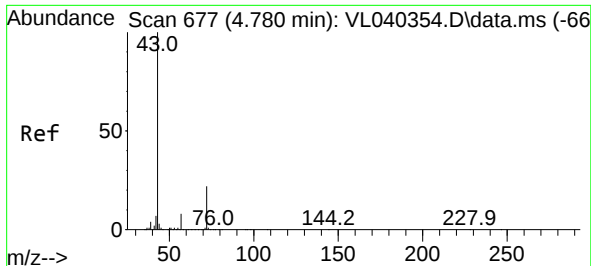
Tgt Ion: 84 Resp: 55003
Ion Ratio Lower Upper
84 100
56 131.0 107.0 160.6
41 102.1 66.7 100.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 114 Resp: 2749322
Ion Ratio Lower Upper
114 100
63 25.5 21.4 32.0
88 18.0 14.6 22.0

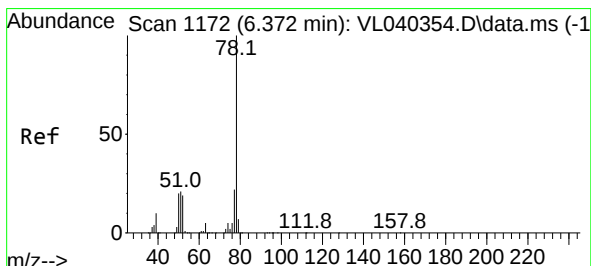
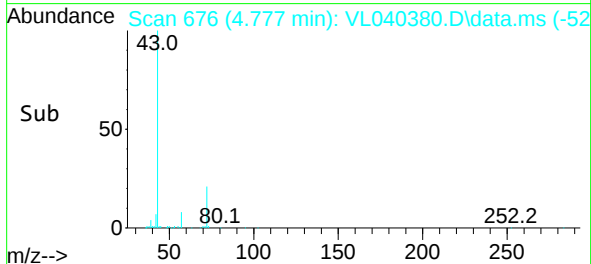
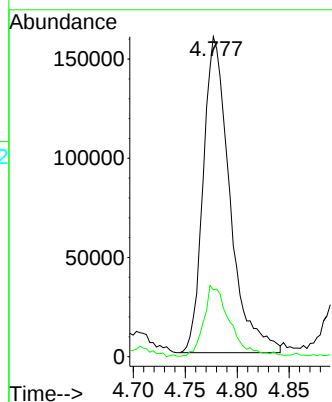
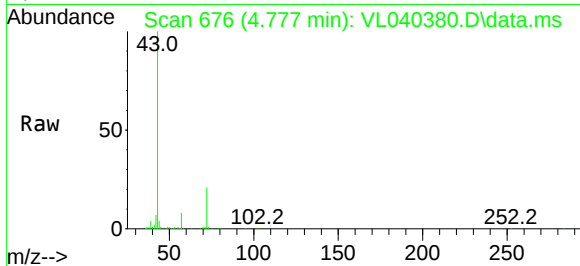




#34
2-Butanone
Concen: 1.913 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

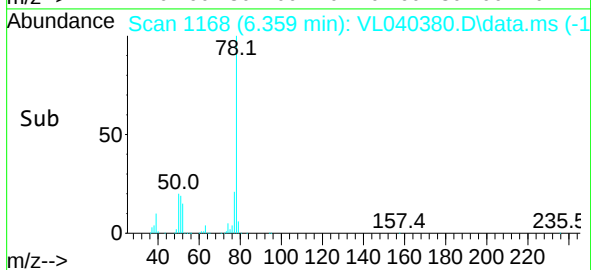
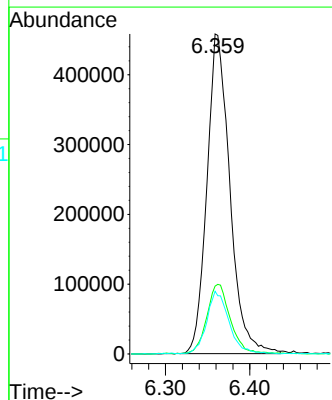
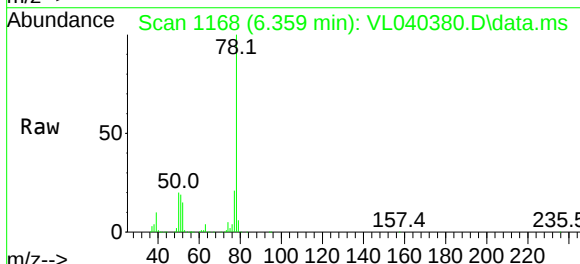
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

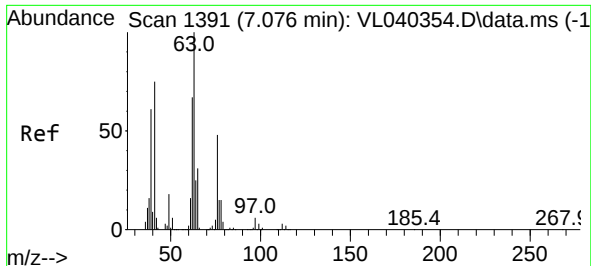
Tgt Ion: 43 Resp: 283673
Ion Ratio Lower Upper
43 100
72 22.8 18.4 27.6



#36
Benzene
Concen: 3.864 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 78 Resp: 866739
Ion Ratio Lower Upper
78 100
77 21.1 17.8 26.8
50 19.6 15.6 23.4





#39

1,2-Dichloropropane

Concen: 7.714 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL040380.D

Acq: 19 Apr 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

AP04-A

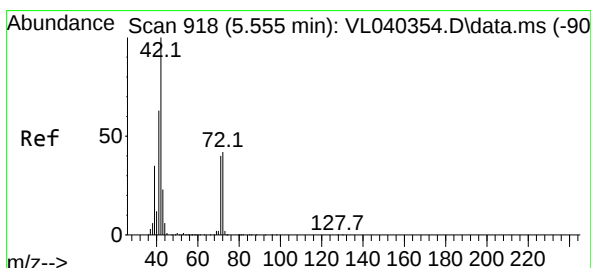
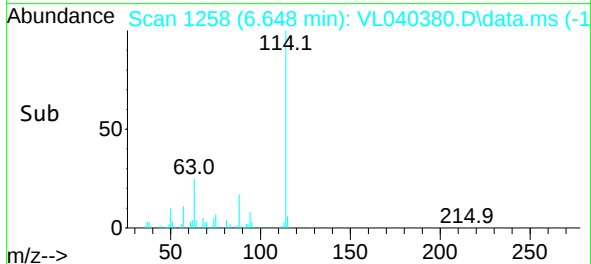
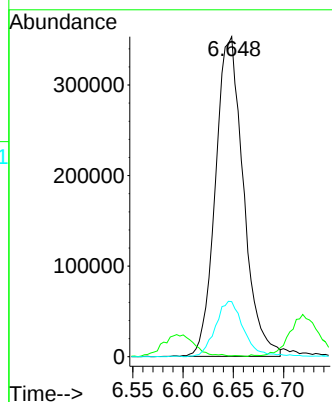
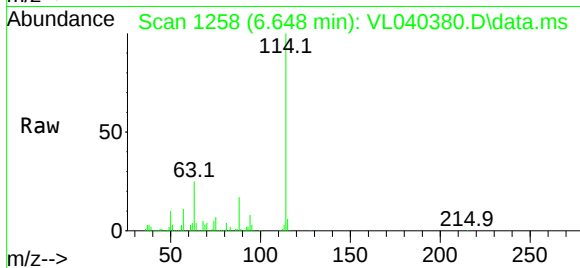
Tgt Ion: 63 Resp: 680816

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.1 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.340 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.254 min

Lab File: VL040380.D

Acq: 19 Apr 2023 15:13

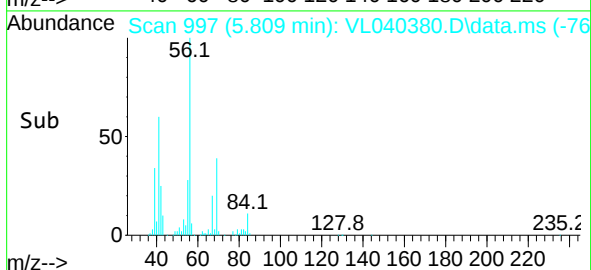
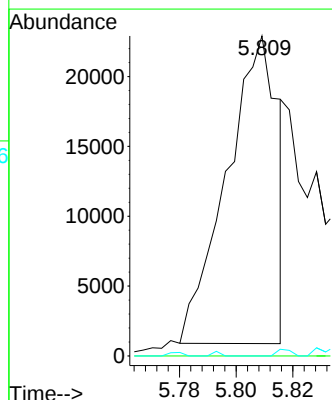
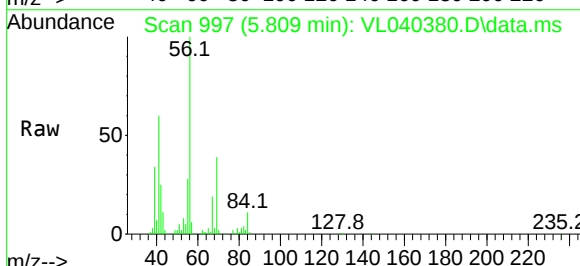
Tgt Ion: 42 Resp: 27596

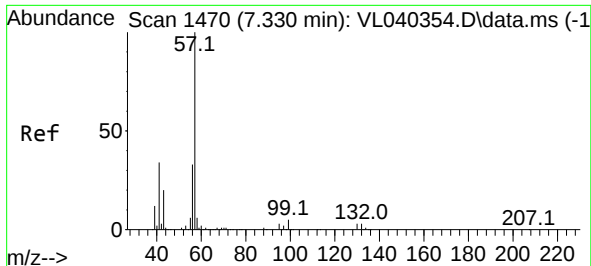
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.2 48.2#

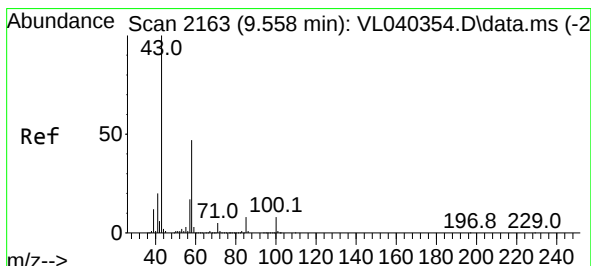
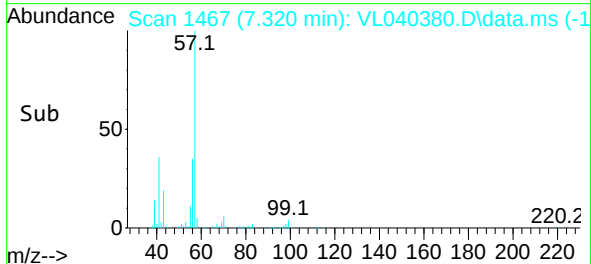
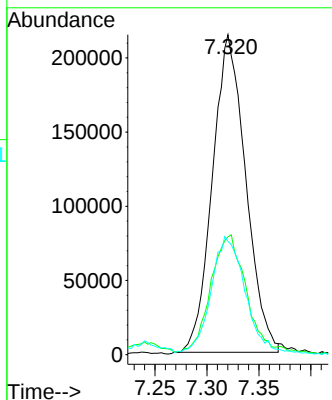
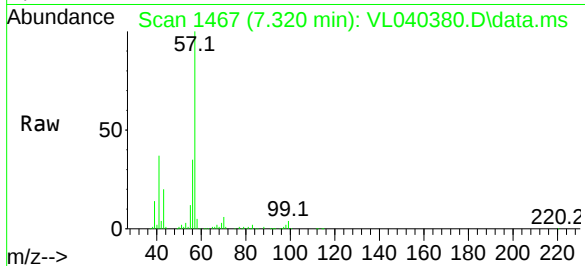




#44
2,2,4-Trimethylpentane
Concen: 1.272 ppbv
RT: 7.320 min Scan# 1470
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

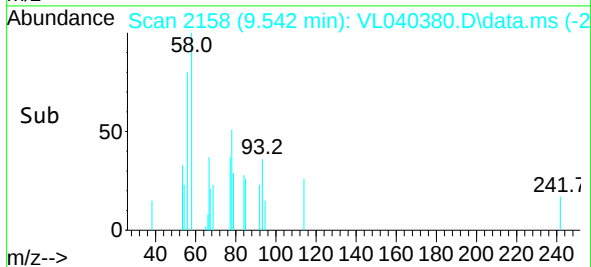
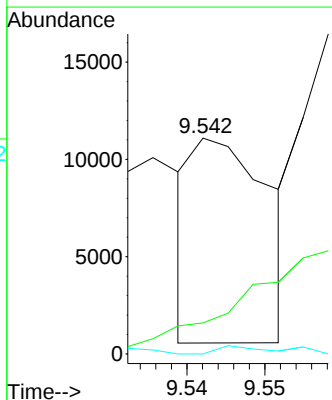
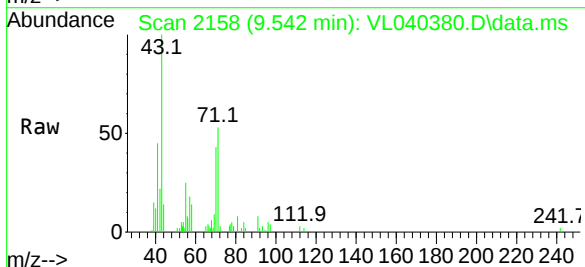
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

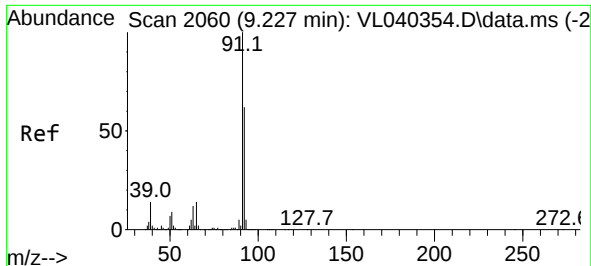
Tgt Ion: 57 Resp: 476745
Ion Ratio Lower Upper
57 100
41 41.7 26.9 40.3#
56 38.6 25.1 37.7#



#51
2-Hexanone
Concen: 0.043 ppbv
RT: 9.542 min Scan# 2158
Delta R.T. -0.016 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 43 Resp: 7120
Ion Ratio Lower Upper
43 100
58 0.0 38.3 57.5#
98 0.0 0.4 0.6#

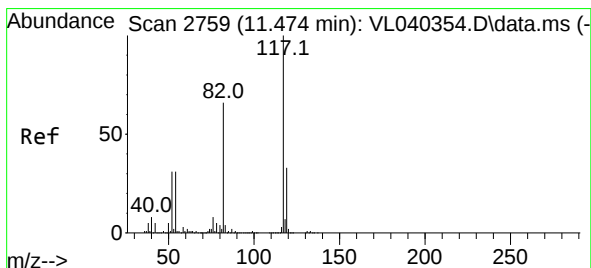
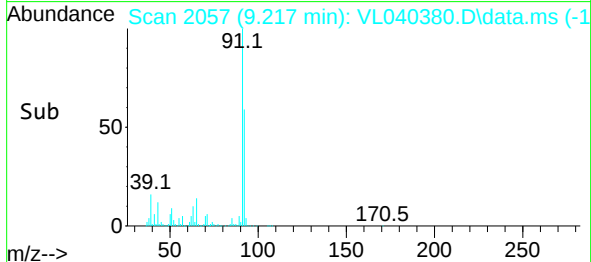
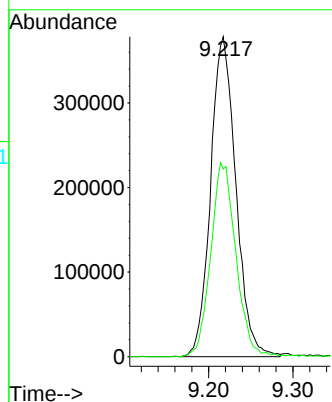
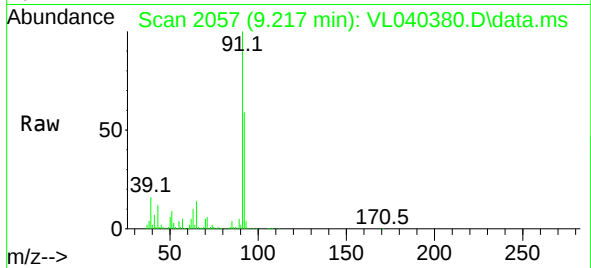




#53
Toluene
Concen: 3.308 ppbv
RT: 9.217 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

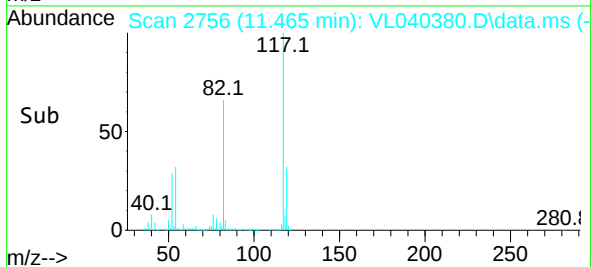
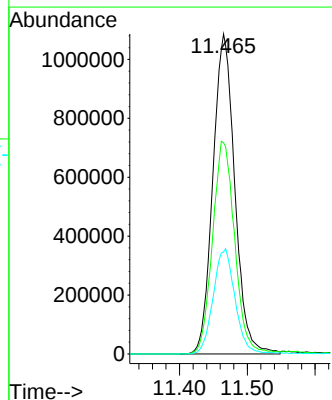
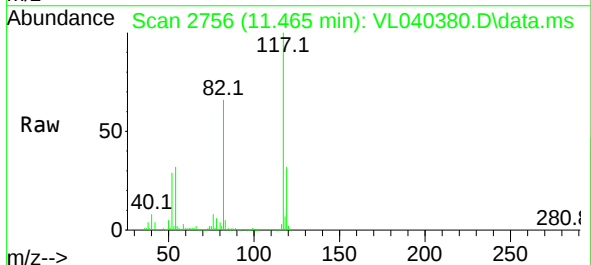
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

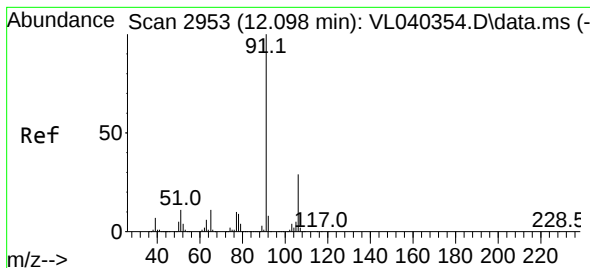
Tgt Ion: 91 Resp: 786550
Ion Ratio Lower Upper
91 100
92 60.3 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.009 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 117 Resp: 2436391
Ion Ratio Lower Upper
117 100
82 68.7 52.5 78.7
119 33.1 24.3 36.5





#58

Ethyl Benzene

Concen: 0.497 ppbv

RT: 12.092 min Scan# 2951

Delta R.T. -0.006 min

Lab File: VL040380.D

Acq: 19 Apr 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

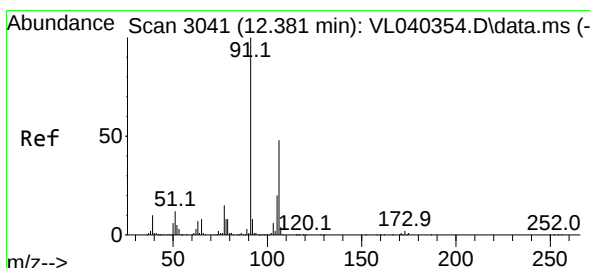
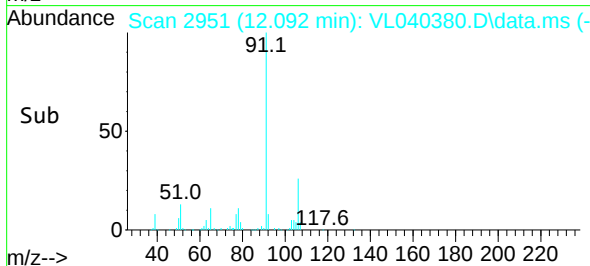
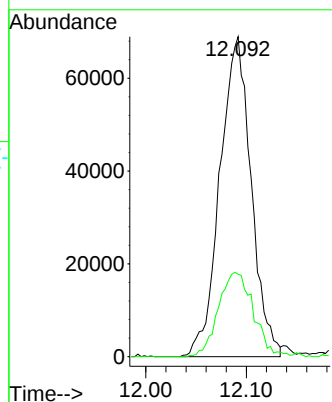
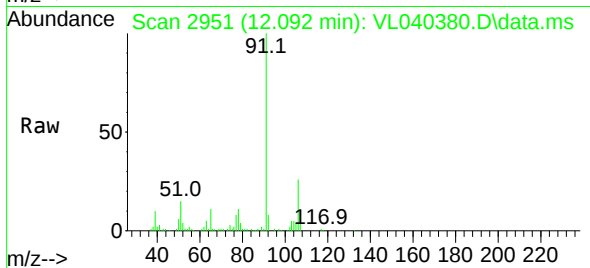
AP04-A

Tgt Ion: 91 Resp: 148867

Ion Ratio Lower Upper

91 100

106 25.8 23.5 35.3



#59

m/p-Xylene

Concen: 1.540 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.035 min

Lab File: VL040380.D

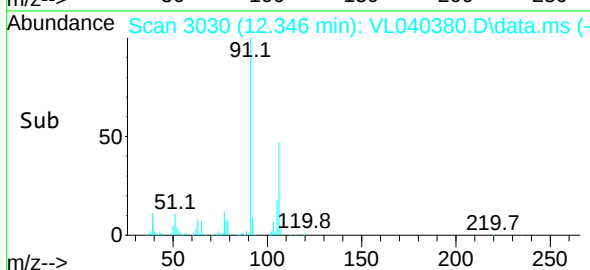
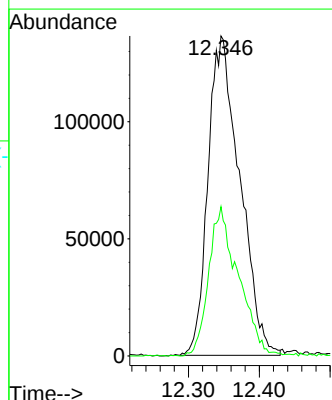
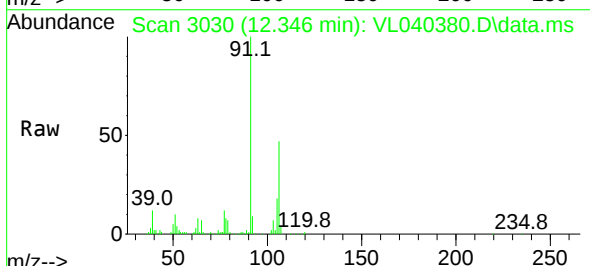
Acq: 19 Apr 2023 15:13

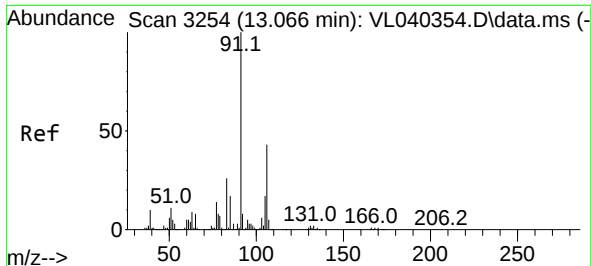
Tgt Ion: 91 Resp: 424561

Ion Ratio Lower Upper

91 100

106 43.4 34.7 52.1

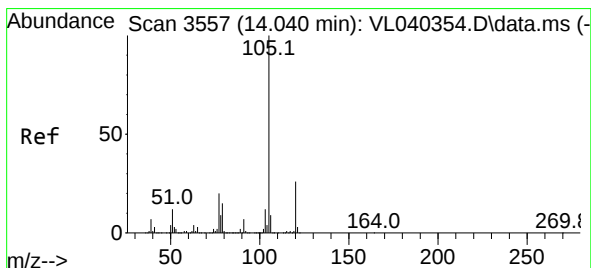
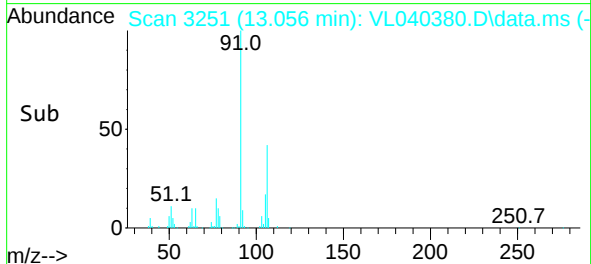
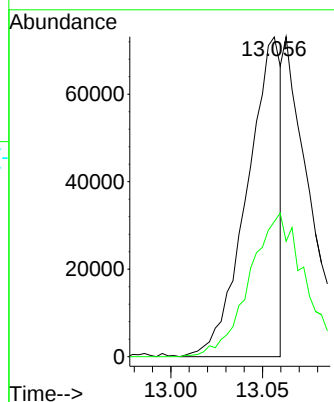
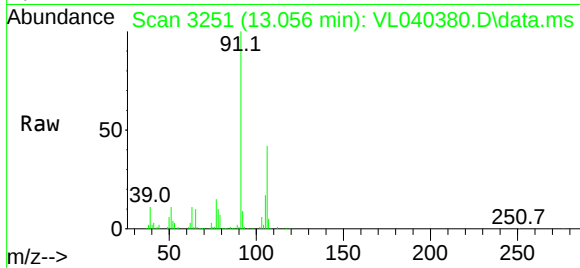




#60
o-Xylene
Concen: 0.355 ppbv
RT: 13.056 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

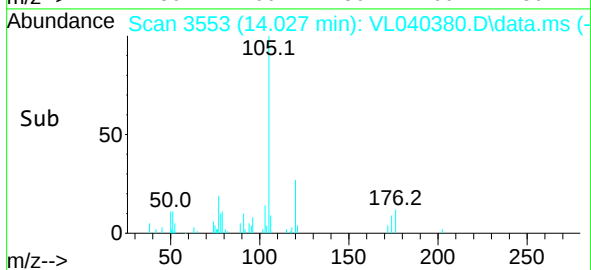
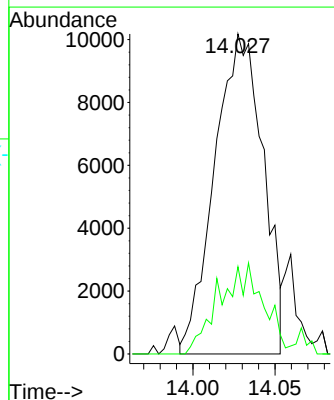
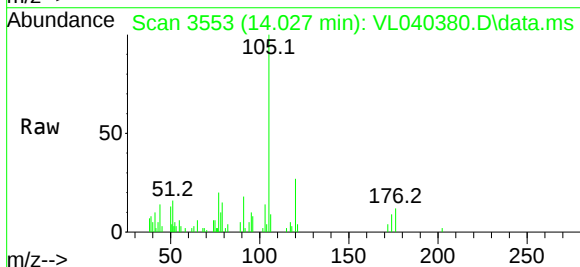
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

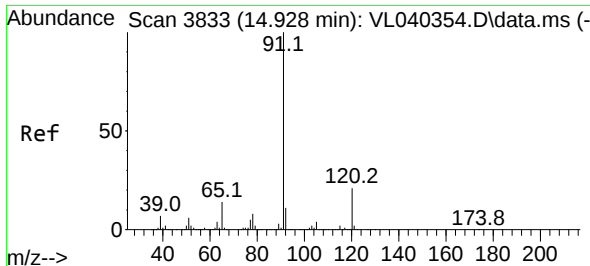
Tgt Ion: 91 Resp: 93775
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#



#62
Isopropylbenzene
Concen: 0.055 ppbv
RT: 14.027 min Scan# 3553
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 105 Resp: 20924
Ion Ratio Lower Upper
105 100
120 27.5 19.9 29.9

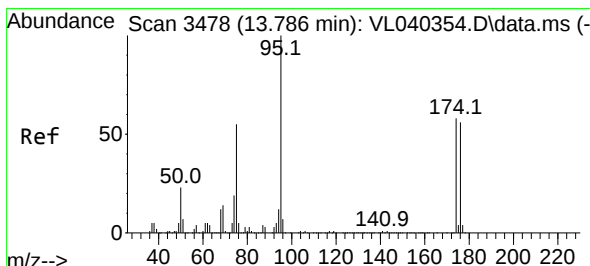
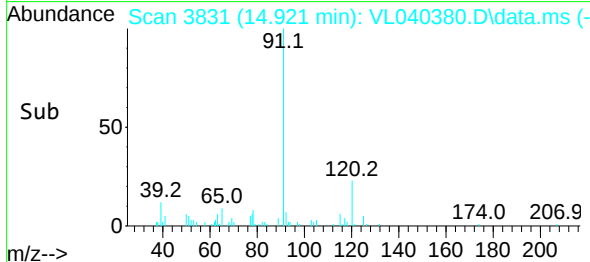
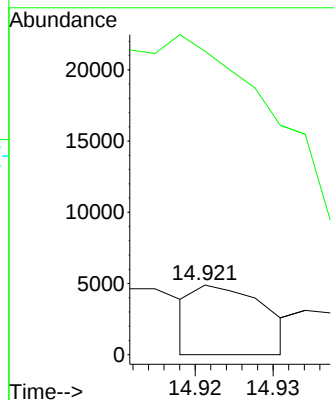
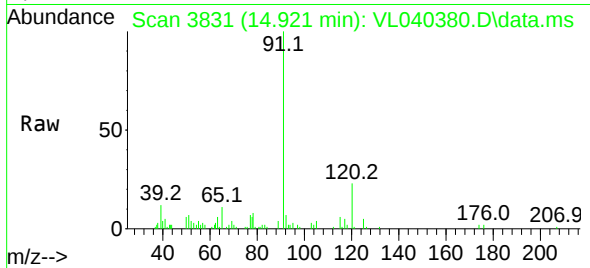




#64
n-propylbenzene
Concen: 0.033 ppbv
RT: 14.921 min Scan# 3831
Delta R.T. -0.007 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

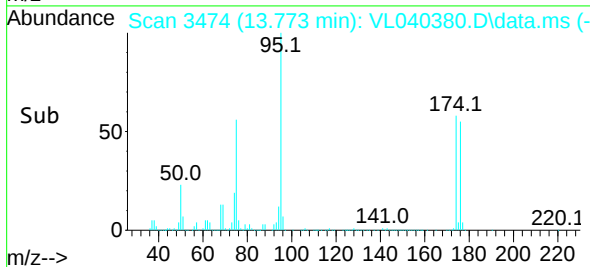
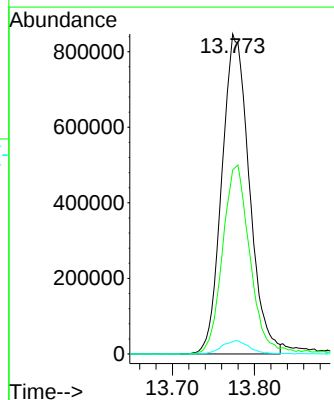
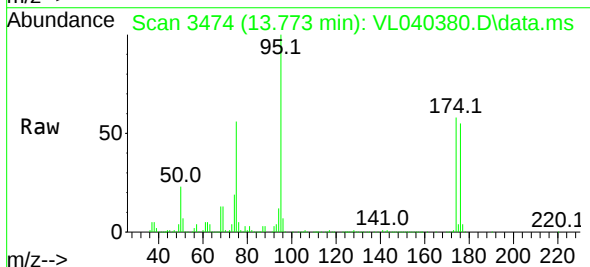
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

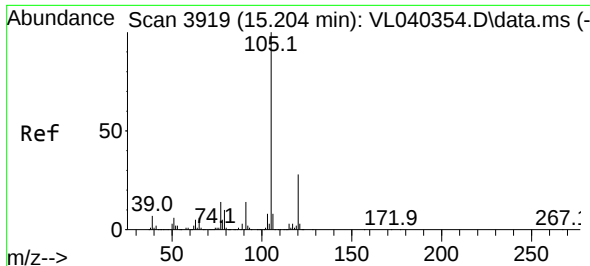
Tgt Ion:120 Resp: 3077
Ion Ratio Lower Upper
120 100
91 1862.4 397.4 596.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.767 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion: 95 Resp: 1967832
Ion Ratio Lower Upper
95 100
174 59.9 47.2 70.8
175 4.3 3.5 5.3

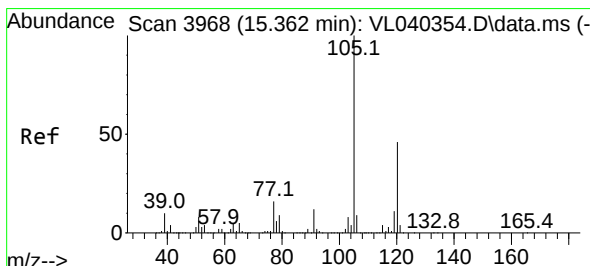
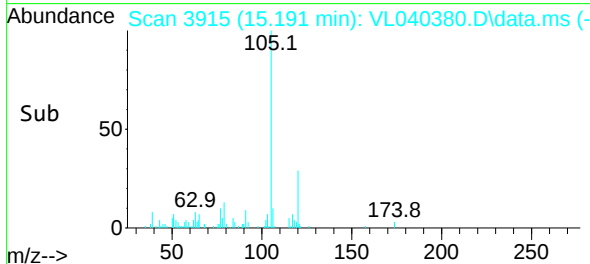
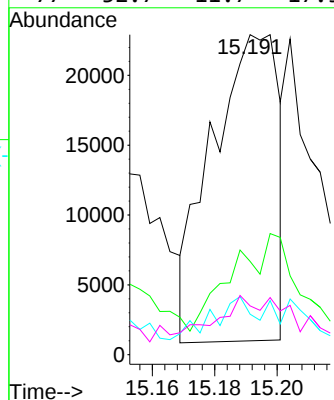
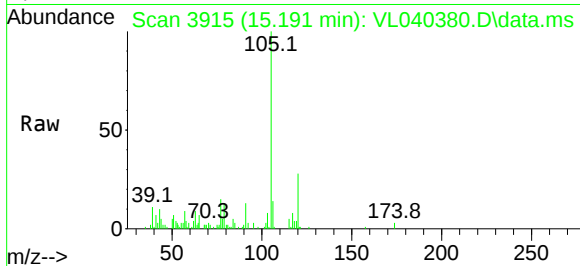




#72
4-Ethyltoluene
Concen: 0.112 ppbv
RT: 15.191 min Scan# 3915
Delta R.T. -0.013 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

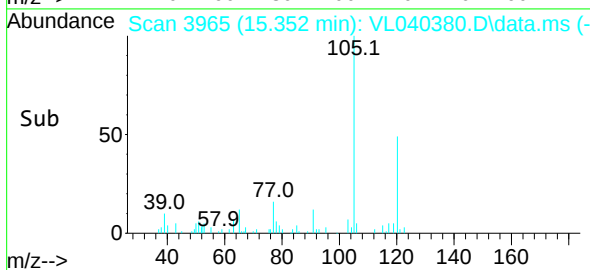
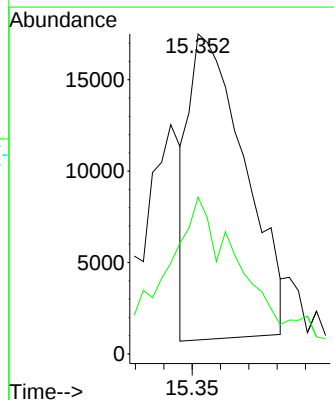
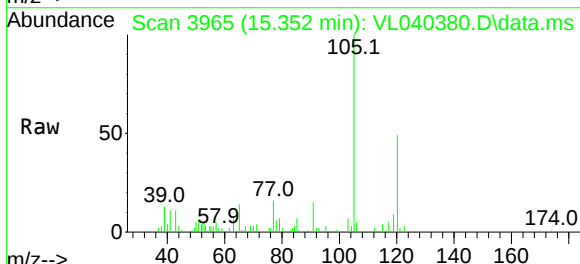
Instrument :
MSVOA_L
ClientSampleId :
AP04-A

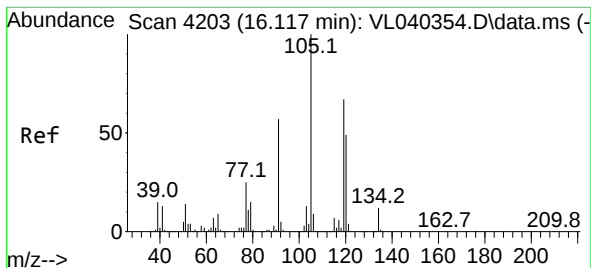
Tgt Ion:105	Resp:	32609
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.0 34.6#
91	33.9	11.3 16.9#
77	32.7	11.7 17.5#



#73
1,3,5-Trimethylbenzene
Concen: 0.084 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. -0.010 min
Lab File: VL040380.D
Acq: 19 Apr 2023 15:13

Tgt Ion:105	Resp:	22760
Ion Ratio	Lower	Upper
105	100	
120	52.1	36.9 55.3





#74

1,2,4-Trimethylbenzene

Concen: 0.244 ppbv

RT: 16.108 min Scan# 41

Delta R.T. -0.009 min

Lab File: VL040380.D

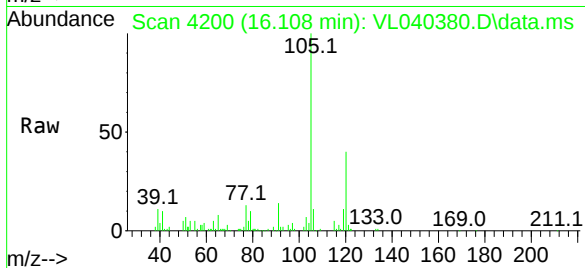
Acq: 19 Apr 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

AP04-A



Tgt Ion:105 Resp: 75260

Ion Ratio Lower Upper

105 100

120 38.8 38.9 58.3#

91 13.0 46.0 69.0#

77 12.5 20.0 30.0#

