

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040383.D
 Acq On : 19 Apr 2023 17:15
 Operator : SY/MD
 Sample : 02410-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 20 05:11:53 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

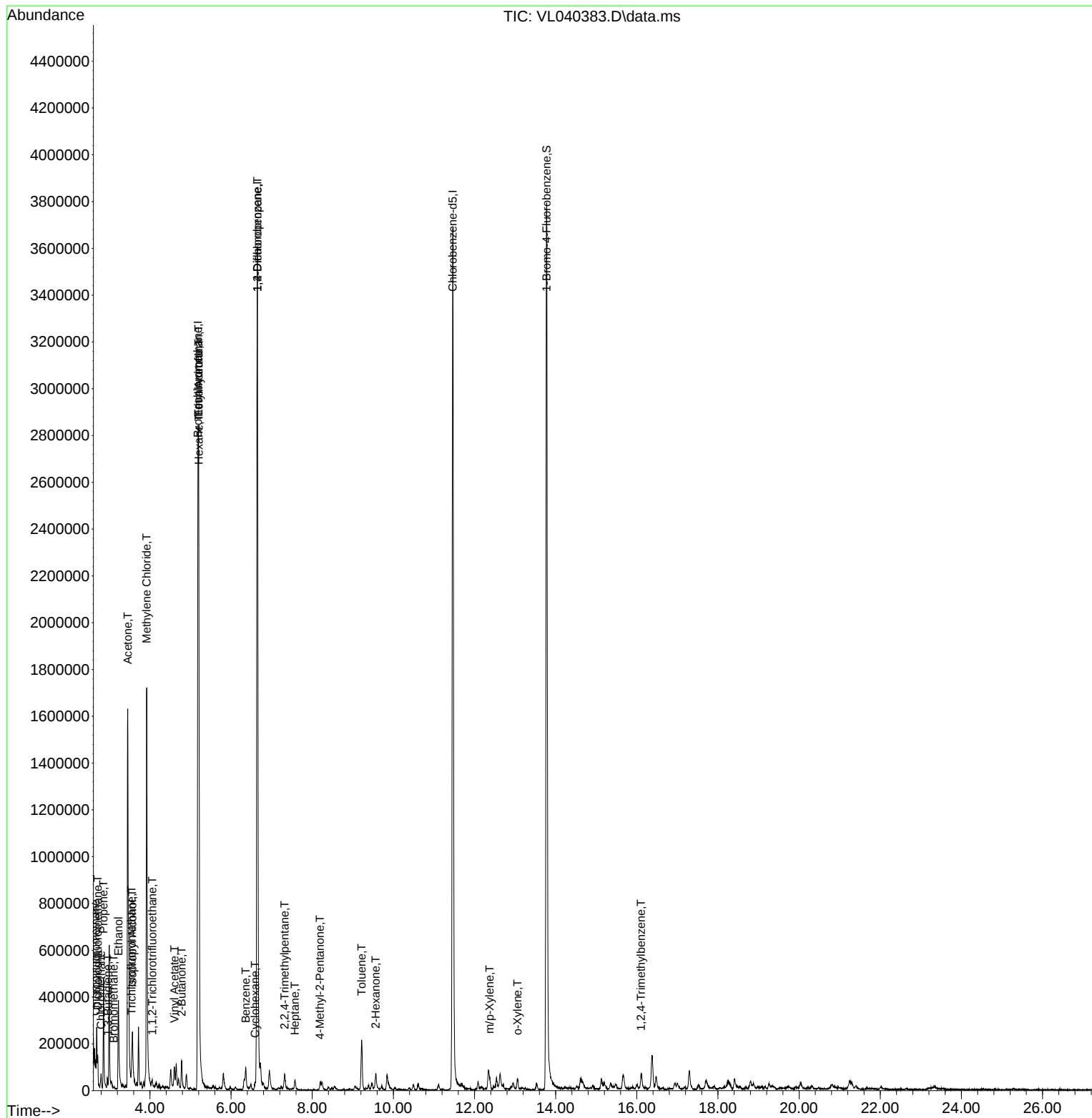
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.182	49	1073384	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2697804	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2358204	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1930852	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	77717	0.402	ppbv	90
3) Chlorodifluoromethane	2.658	51	143006	1.020	ppbv #	83
4) Chloromethane	2.796	50	41837	0.472	ppbv	99
6) Bromomethane	3.105	94	1110	0.046	ppbv #	16
9) Propene	2.857	41	100076	1.806	ppbv	87
10) Heptane	7.574	43	6807	0.054	ppbv #	20
11) Trichlorofluoromethane	3.549	101	41718	0.213	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.057	101	4563	0.033	ppbv #	1
13) Ethanol	3.224	45	409226	88.465	ppbv	95
15) Acetone	3.452	43	1729961	11.379	ppbv	98
16) 1,3-Butadiene	2.957	39	4534	0.072	ppbv #	46
19) Isopropyl Alcohol	3.568	45	223871	3.227	ppbv #	1
20) Methylene Chloride	3.922	84	580711	9.567	ppbv	96
23) Vinyl Acetate	4.603	43	70217	1.814	ppbv #	67
25) Ethyl Acetate	5.201	43	588213	2.299	ppbv #	78
26) Hexane	5.205	57	812381	7.533	ppbv #	37
30) Cyclohexane	6.590	84	3538	0.042	ppbv #	1
34) 2-Butanone	4.783	43	133510	0.918	ppbv	99
36) Benzene	6.362	78	64464	0.293	ppbv	98
39) 1,2-Dichloropropane	6.648	63	669920	7.735	ppbv #	25
41) Tetrahydrofuran	5.201	42	305801	3.838	ppbv #	47
44) 2,2,4-Trimethylpentane	7.320	57	30367	0.083	ppbv #	19
50) 4-Methyl-2-Pentanone	8.188	43	9541	0.043	ppbv #	39
51) 2-Hexanone	9.565	43	60034	0.368	ppbv #	98
53) Toluene	9.217	91	155830	0.668	ppbv	98
59) m/p-Xylene	12.375	91	17890	0.067	ppbv #	32
60) o-Xylene	13.060	91	20902	0.082	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.101	105	17188	0.058	ppbv #	69

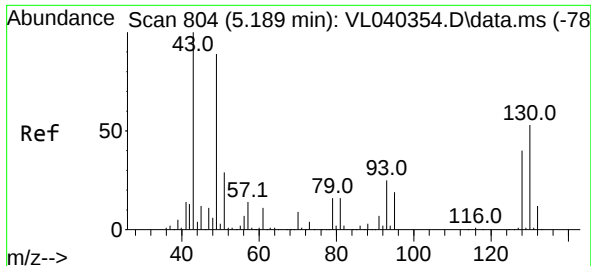
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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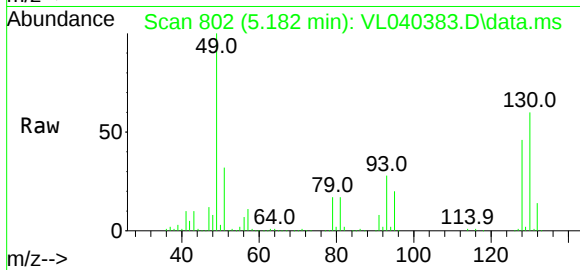
Quant Time: Apr 20 05:11:53 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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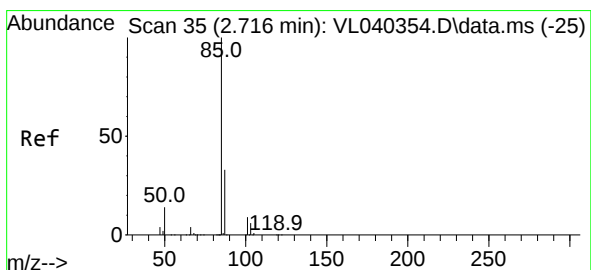
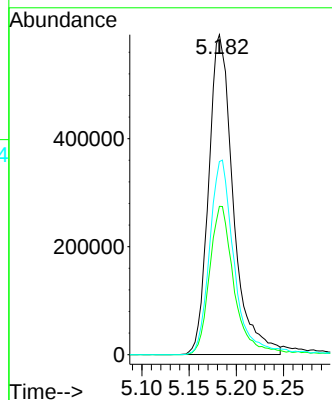
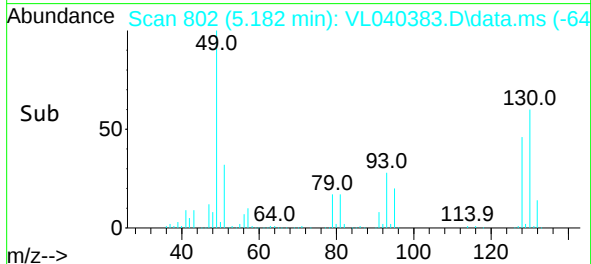
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 49 Resp: 1073384

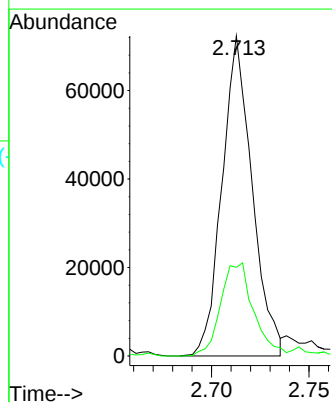
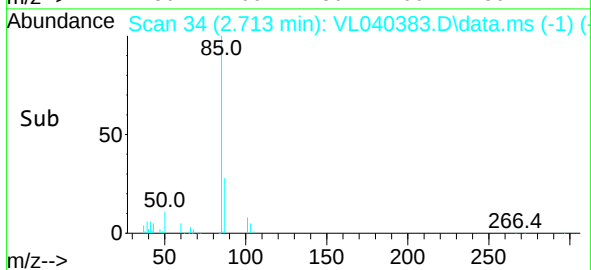
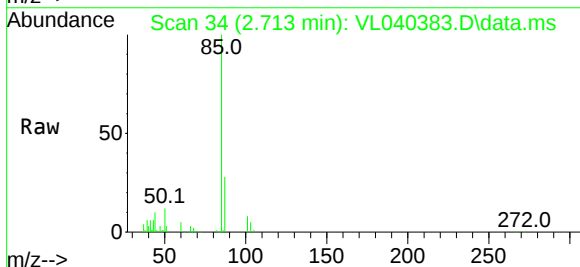
Ion	Ratio	Lower	Upper
49	100		
128	47.8	23.7	71.1
130	62.6	29.9	89.8

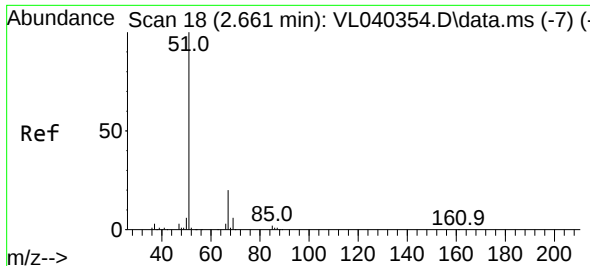


#2
 Dichlorodifluoromethane
 Concen: 0.402 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Tgt Ion: 85 Resp: 77717

Ion	Ratio	Lower	Upper
85	100		
87	27.7	26.6	40.0

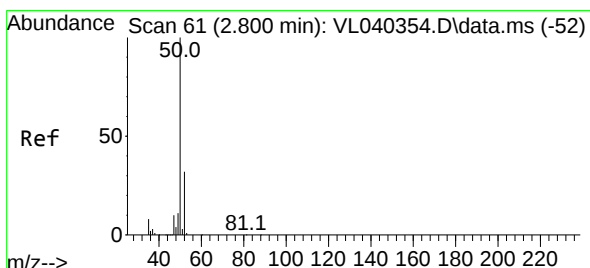
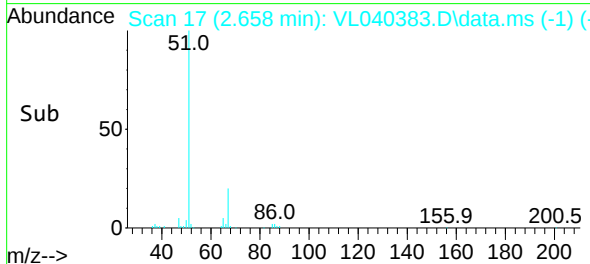
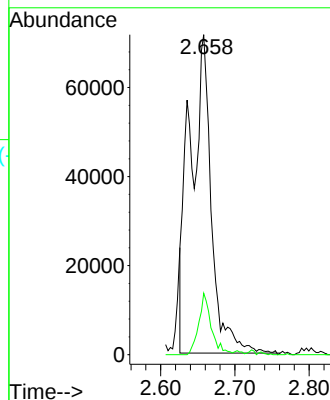
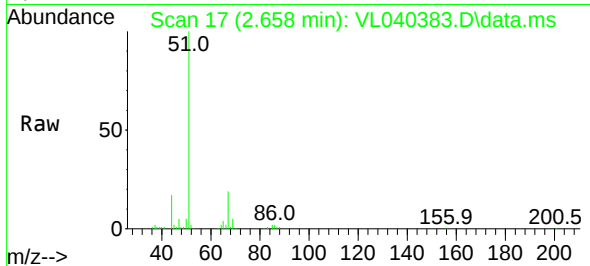




#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

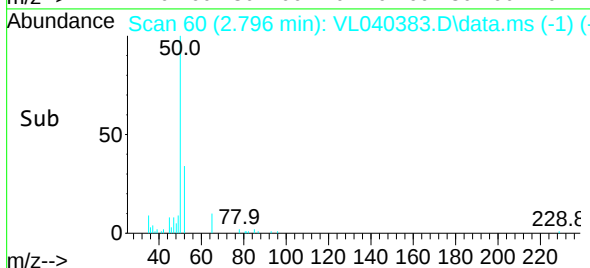
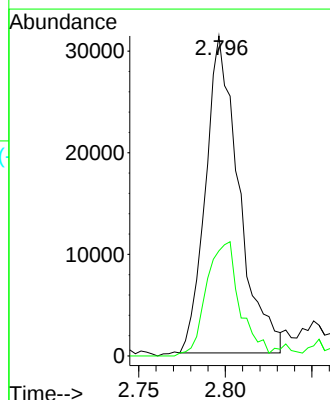
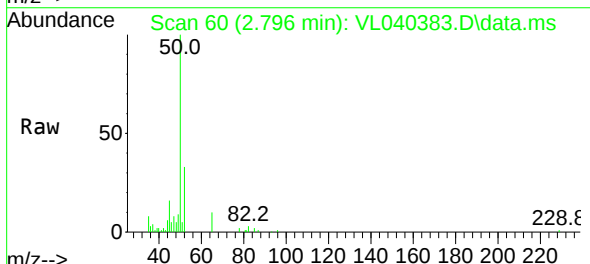
Instrument :
MSVOA_L
ClientSampleId :

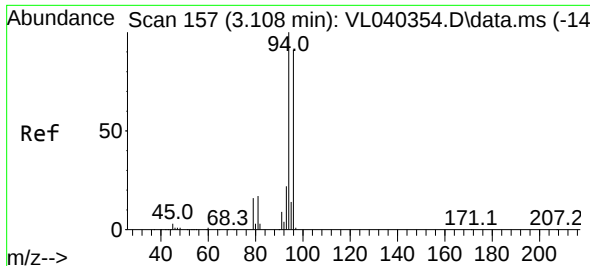
Tgt Ion: 51 Resp: 143006
Ion Ratio Lower Upper
51 100
67 11.8 15.5 23.3#



#4
Chloromethane
Concen: 0.472 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 50 Resp: 41837
Ion Ratio Lower Upper
50 100
52 32.3 25.3 37.9

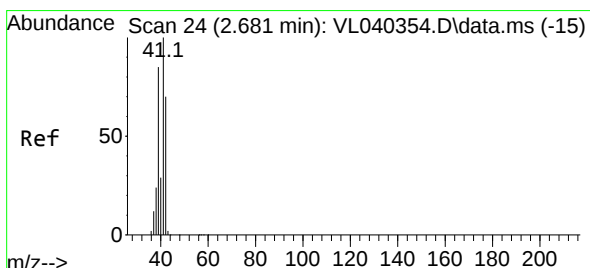
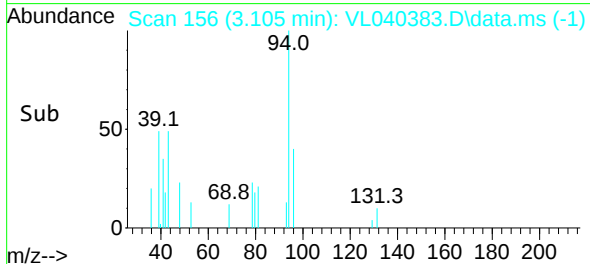
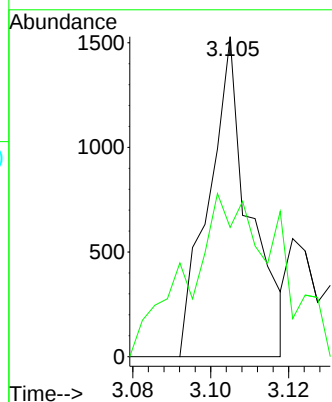
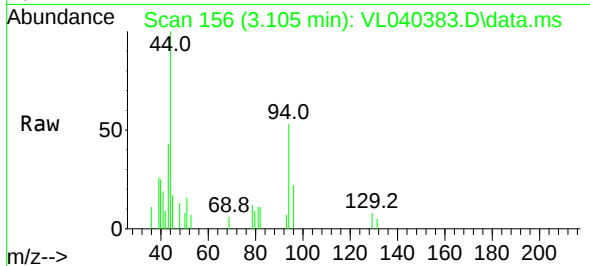




#6
Bromomethane
Concen: 0.046 ppbv
RT: 3.105 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

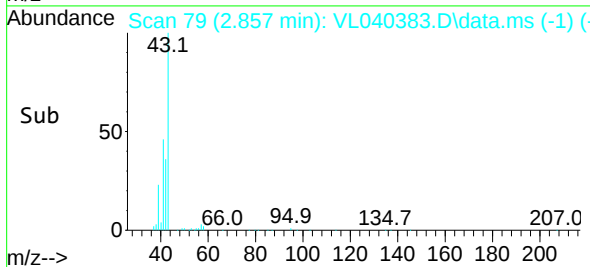
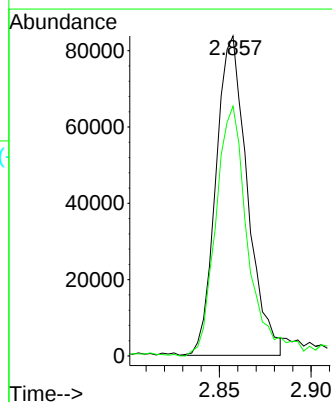
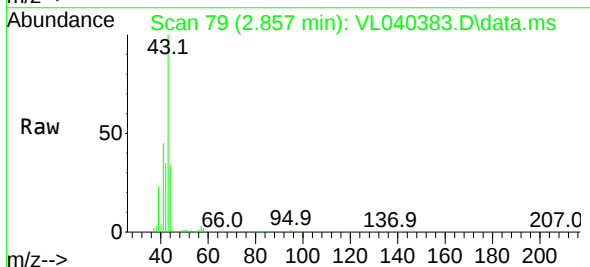
Instrument :
MSVOA_L
ClientSampleId :

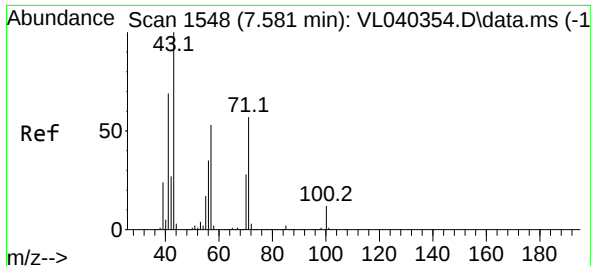
Tgt Ion: 94 Resp: 1110
Ion Ratio Lower Upper
94 100
96 11.1 72.6 108.8#



#9
Propene
Concen: 1.806 ppbv
RT: 2.857 min Scan# 79
Delta R.T. 0.176 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 41 Resp: 100076
Ion Ratio Lower Upper
41 100
42 81.2 56.5 84.7

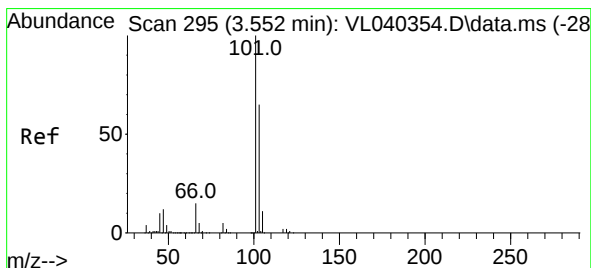
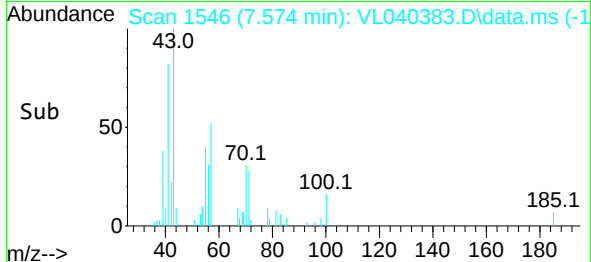
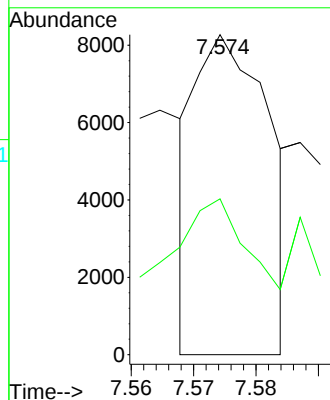
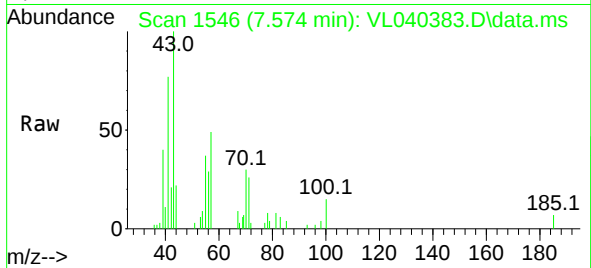




#10
Heptane
Concen: 0.054 ppbv
RT: 7.574 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

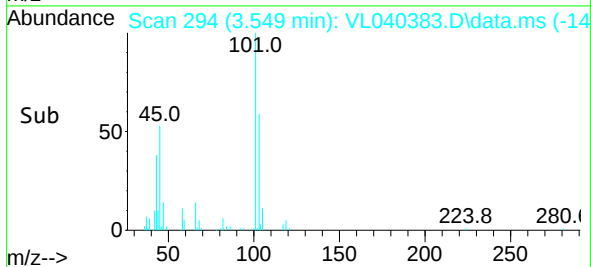
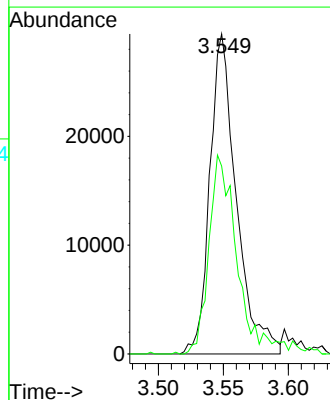
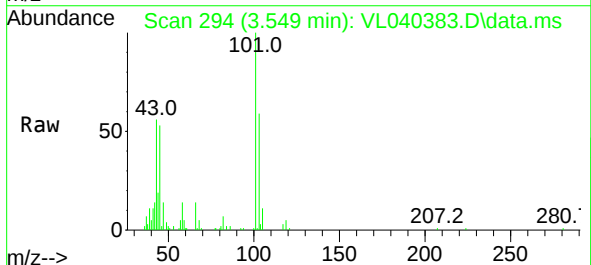
Instrument :
MSVOA_L
ClientSampleId :

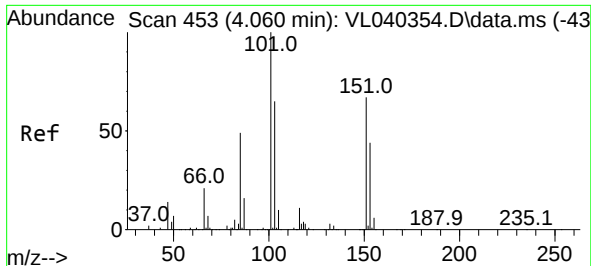
Tgt Ion: 43 Resp: 6807
Ion Ratio Lower Upper
43 100
57 109.1 42.2 63.4#



#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 3.549 min Scan# 294
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion:101 Resp: 41718
Ion Ratio Lower Upper
101 100
103 58.7 52.2 78.4

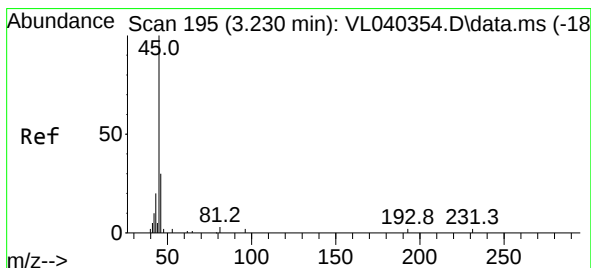
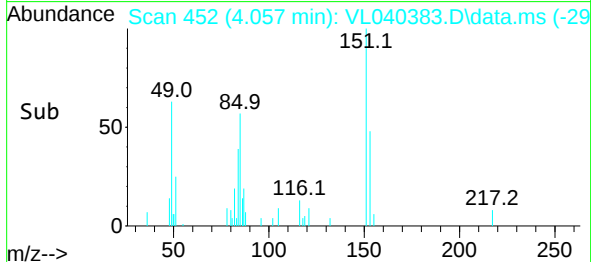
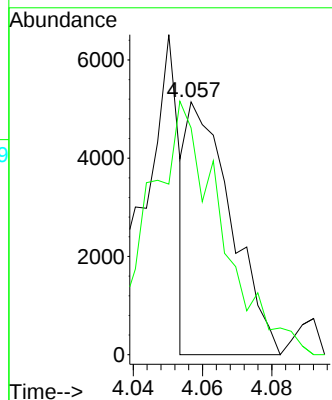
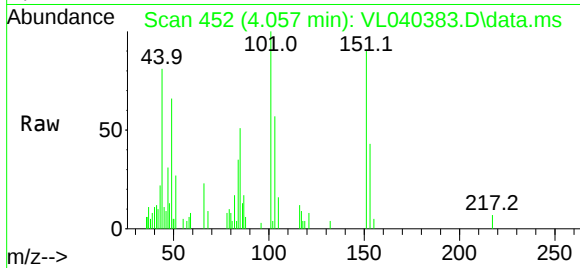




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.033 ppbv
 RT: 4.057 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

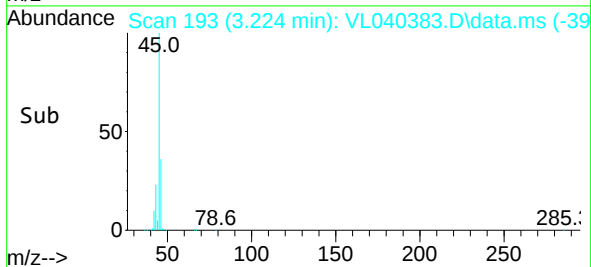
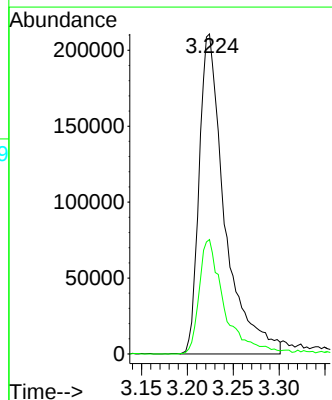
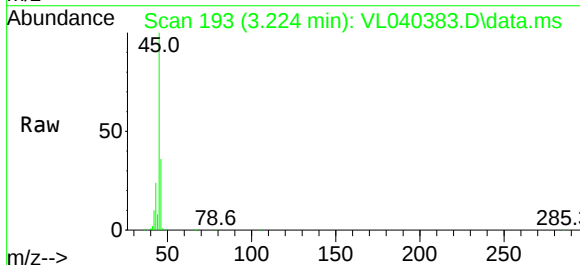
Instrument :
 MSVOA_L
 ClientSampleId :

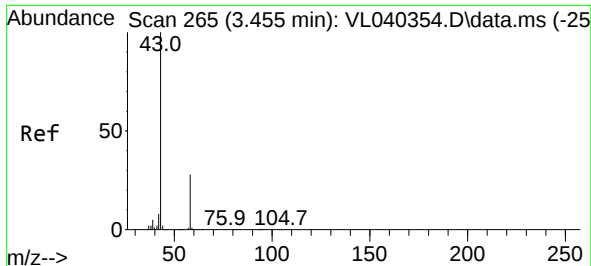
Tgt Ion:101 Resp: 4563
 Ion Ratio Lower Upper
 101 100
 151 165.6 54.7 82.1#



#13
 Ethanol
 Concen: 88.465 ppbv
 RT: 3.224 min Scan# 193
 Delta R.T. -0.006 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Tgt Ion: 45 Resp: 409226
 Ion Ratio Lower Upper
 45 100
 46 35.6 15.3 61.3

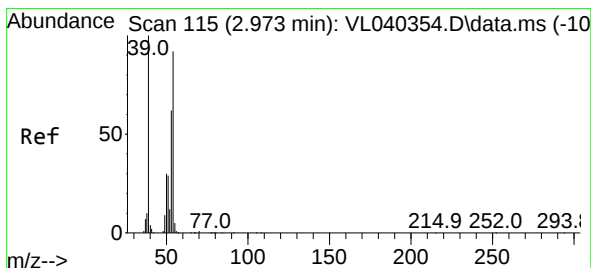
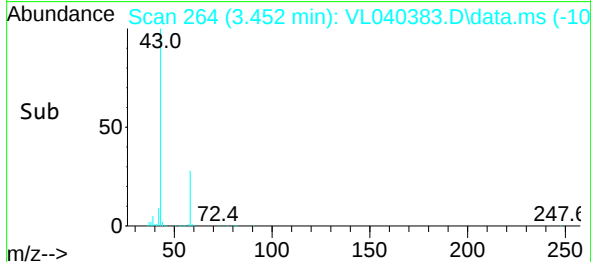
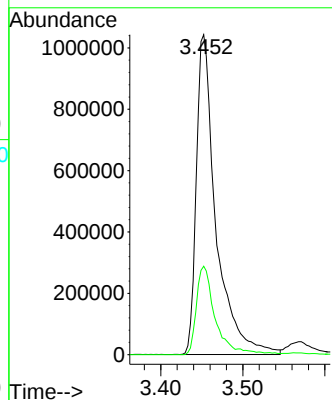
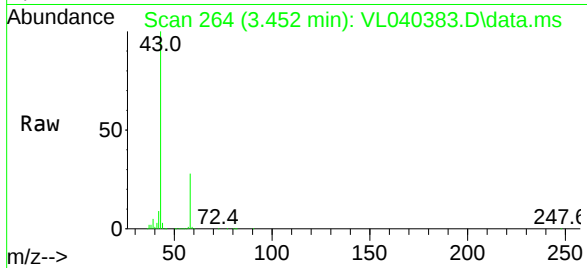




#15
Acetone
Concen: 11.379 ppbv
RT: 3.452 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

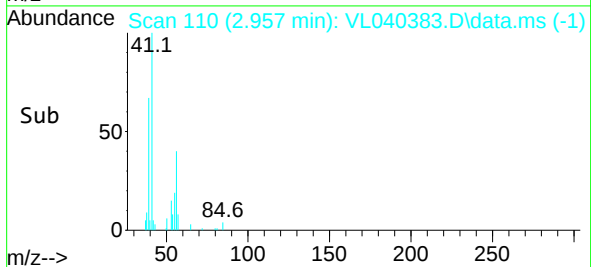
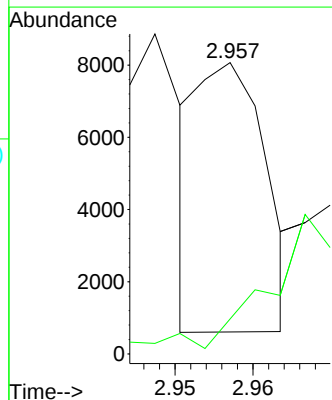
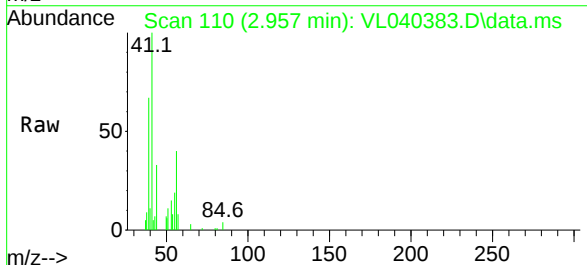
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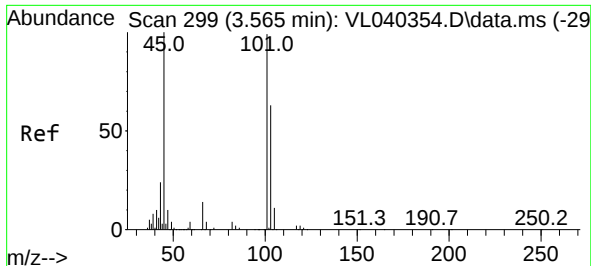
Tgt Ion: 43 Resp: 1729961
Ion Ratio Lower Upper
43 100
58 26.8 22.2 33.2



#16
1,3-Butadiene
Concen: 0.072 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.016 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 39 Resp: 4534
Ion Ratio Lower Upper
39 100
54 135.2 68.8 103.2#

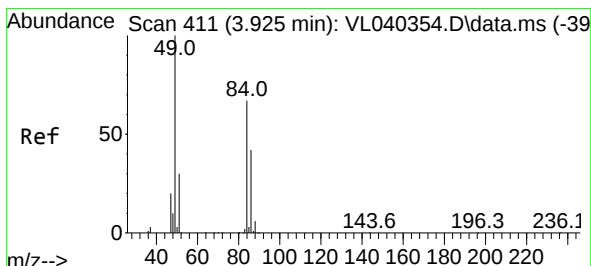
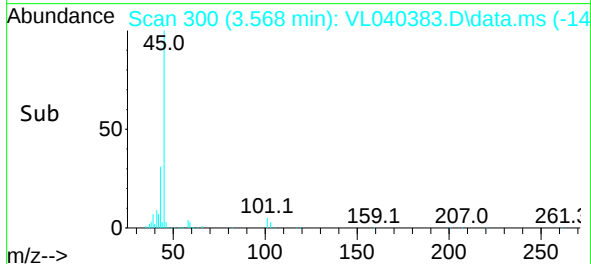
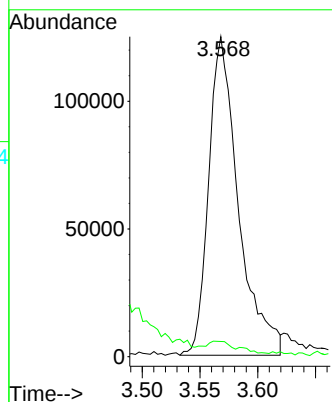
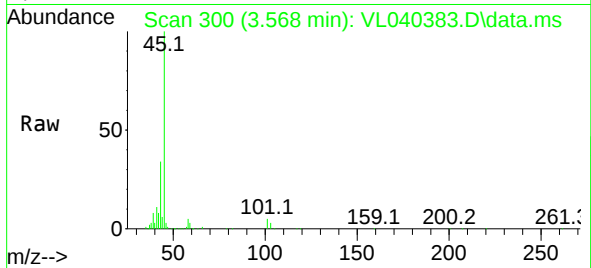




#19
Isopropyl Alcohol
Concen: 3.227 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

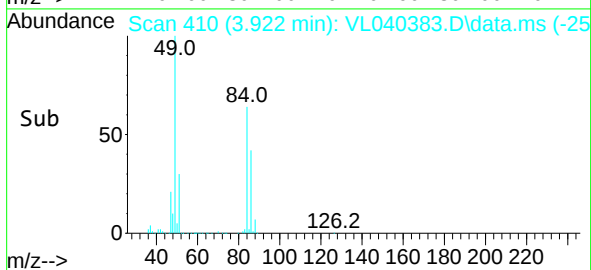
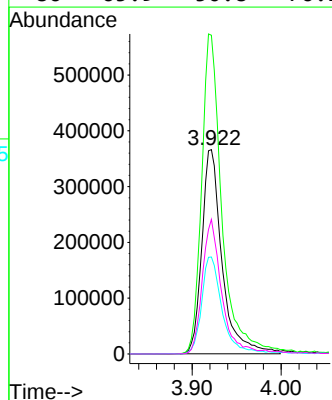
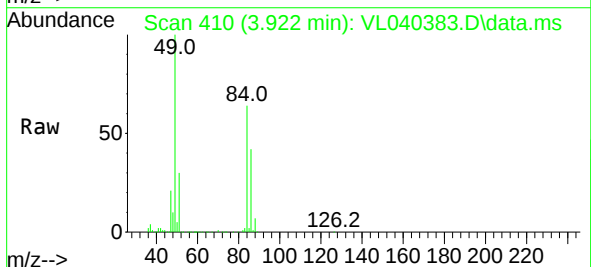
Instrument :
MSVOA_L
ClientSampleId :

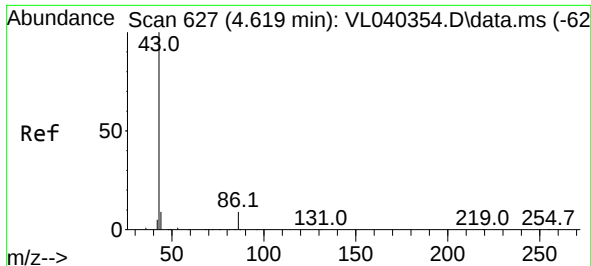
Tgt Ion: 45 Resp: 223871
Ion Ratio Lower Upper
45 100
58 206.4 2.6 4.0#



#20
Methylene Chloride
Concen: 9.567 ppbv
RT: 3.922 min Scan# 410
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

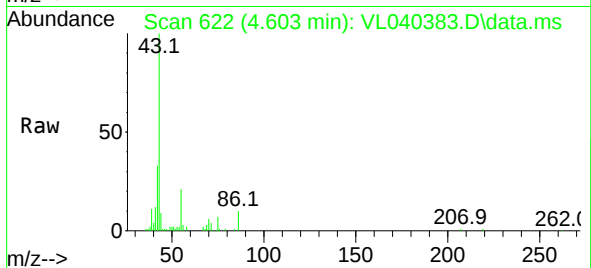
Tgt Ion: 84 Resp: 580711
Ion Ratio Lower Upper
84 100
49 156.1 120.1 180.1
51 47.5 36.3 54.5
86 65.9 50.8 76.2



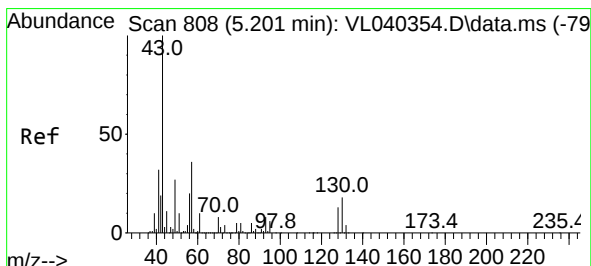
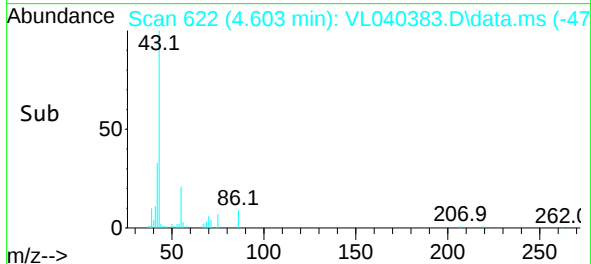
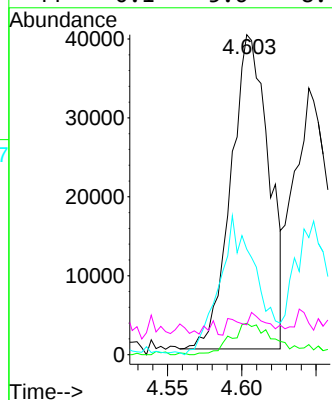


#23
 Vinyl Acetate
 Concen: 1.814 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Instrument :
 MSVOA_L
 ClientSampleId :

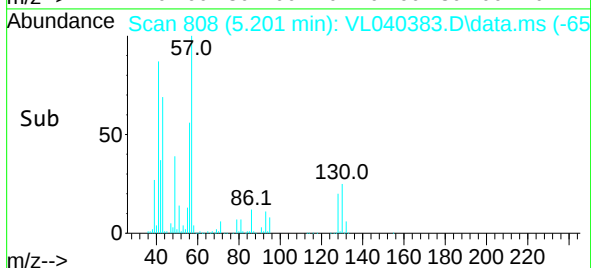
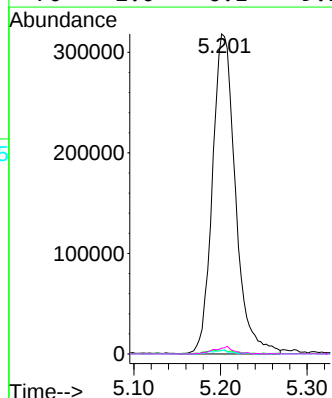
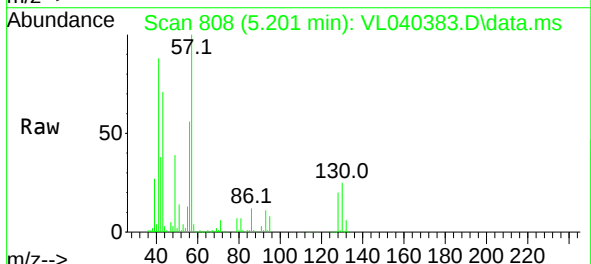


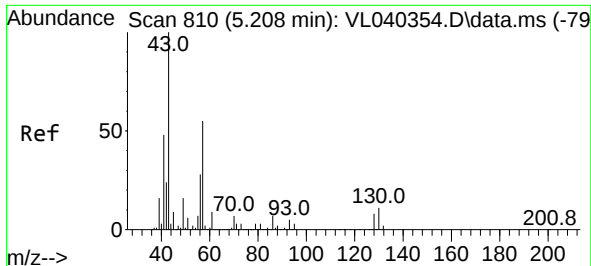
Tgt Ion: 43	Resp: 70217
Ion Ratio	Lower Upper
43 100	
86 9.4	6.0 9.0#
42 33.0	6.4 9.6#
44 0.1	5.6 8.4#



#25
 Ethyl Acetate
 Concen: 2.299 ppbv
 RT: 5.201 min Scan# 808
 Delta R.T. 0.000 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

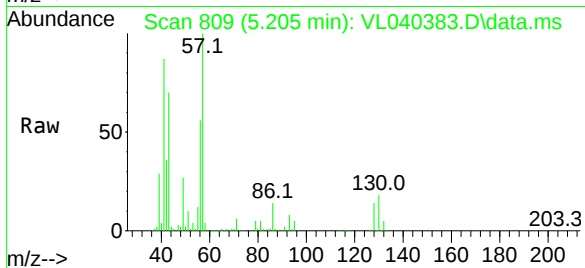
Tgt	Ion: 43	Resp:	588213
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.5	12.7#
61	1.0	8.5	12.7#
70	2.0	6.1	9.1#



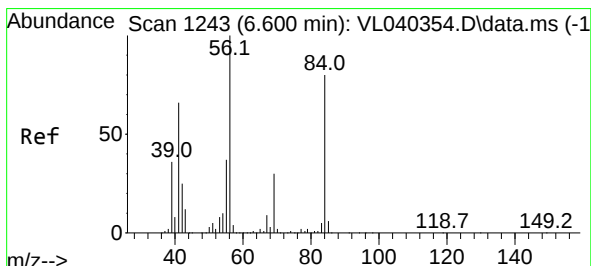
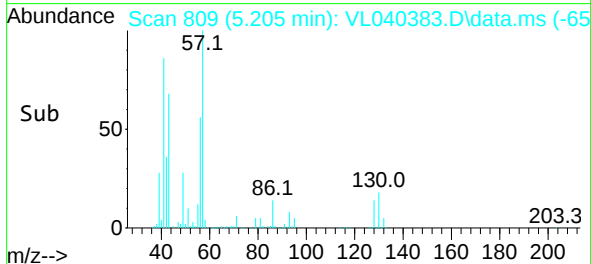
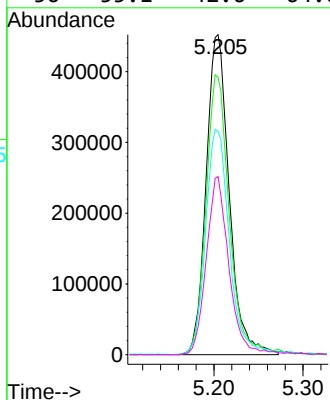


#26
Hexane
Concen: 7.533 ppbv
RT: 5.205 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Instrument :
MSVOA_L
ClientSampleId :

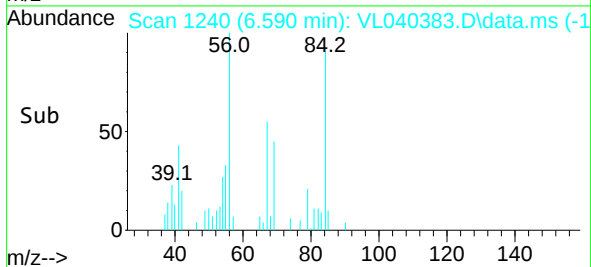
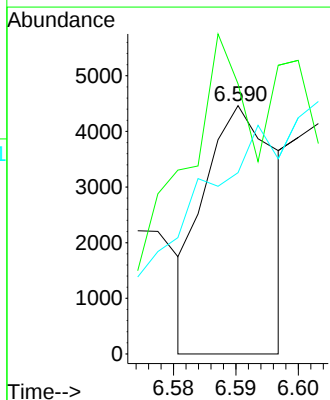
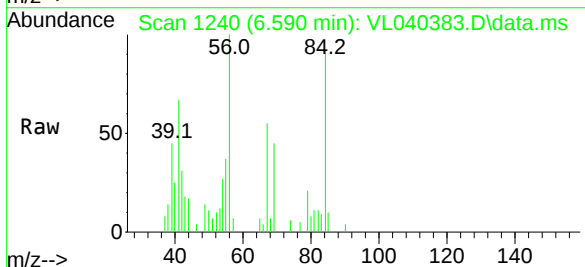


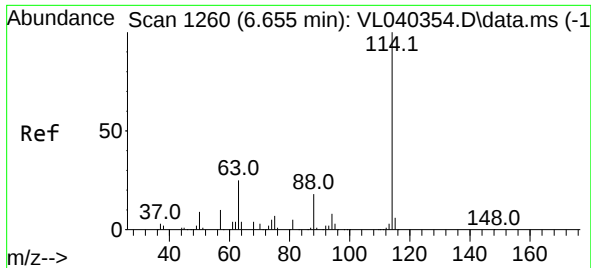
Tgt Ion: 57 Resp: 812381
Ion Ratio Lower Upper
57 100
41 89.1 74.8 112.2
43 72.6 192.7 289.1#
56 55.1 42.6 64.0



#30
Cyclohexane
Concen: 0.042 ppbv
RT: 6.590 min Scan# 1240
Delta R.T. -0.010 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 84 Resp: 3538
Ion Ratio Lower Upper
84 100
56 0.0 107.0 160.6#
41 0.0 66.7 100.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL040383.D

Acq: 19 Apr 2023 17:15

Instrument :

MSVOA_L

ClientSampleId :

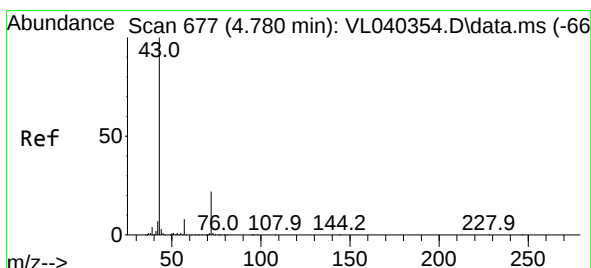
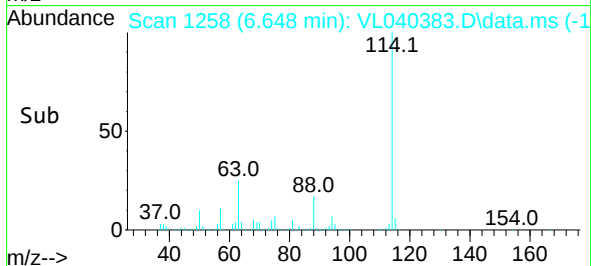
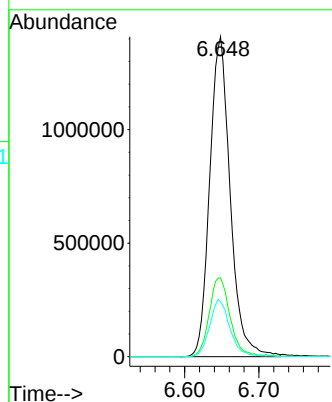
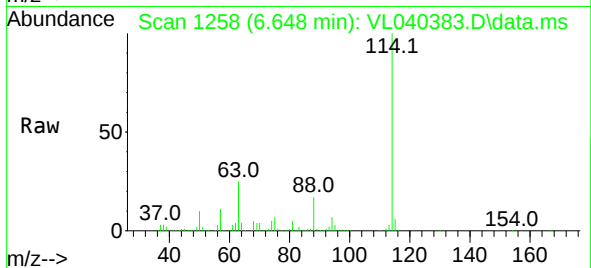
Tgt Ion:114 Resp: 2697804

Ion Ratio Lower Upper

114 100

63 25.5 21.4 32.0

88 17.8 14.6 22.0



#34

2-Butanone

Concen: 0.918 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL040383.D

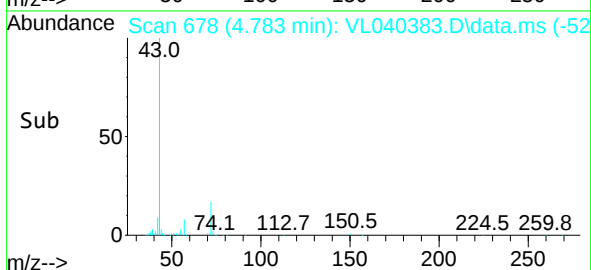
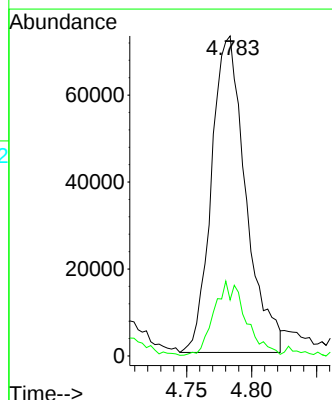
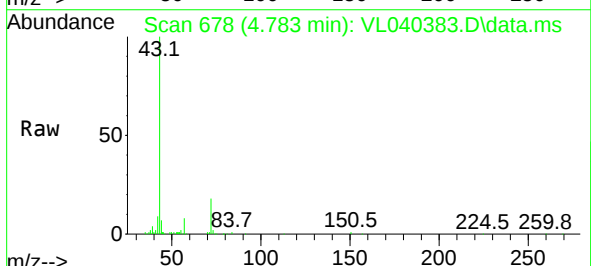
Acq: 19 Apr 2023 17:15

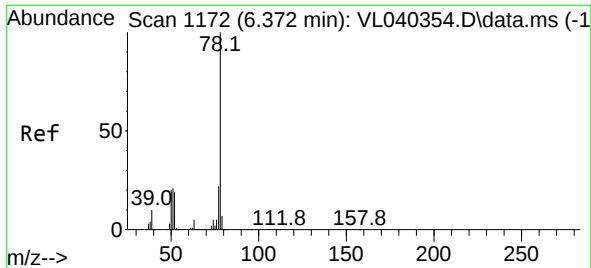
Tgt Ion: 43 Resp: 133510

Ion Ratio Lower Upper

43 100

72 22.7 18.4 27.6





#36

Benzene

Concen: 0.293 ppbv

RT: 6.362 min Scan# 1172

Delta R.T. -0.010 min

Lab File: VL040383.D

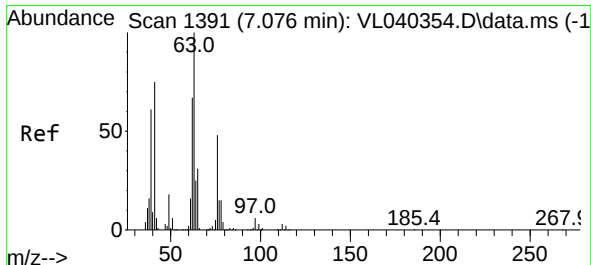
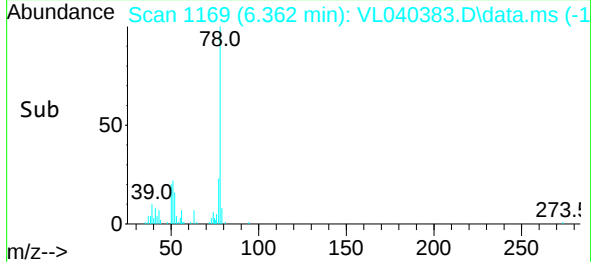
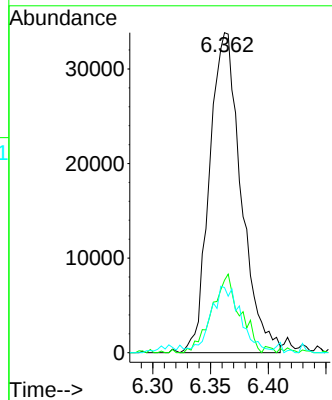
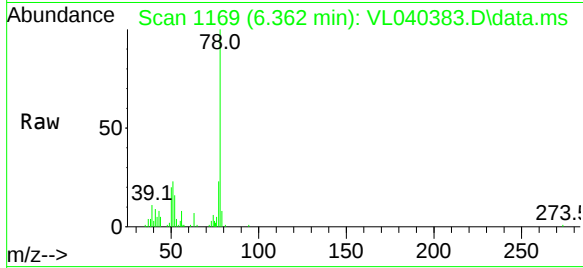
Acq: 19 Apr 2023 17:15

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78	Resp: 64464
Ion Ratio	Lower Upper
78 100	
77 22.7	17.8 26.8
50 18.0	15.6 23.4



#39

1,2-Dichloropropane

Concen: 7.735 ppbv

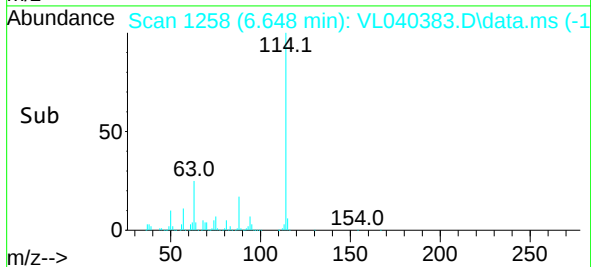
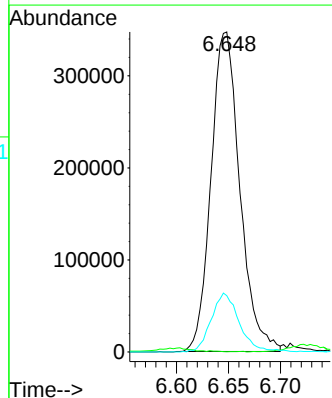
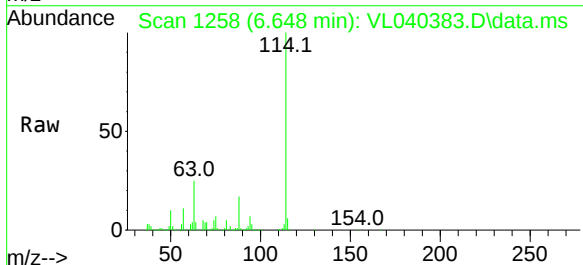
RT: 6.648 min Scan# 1258

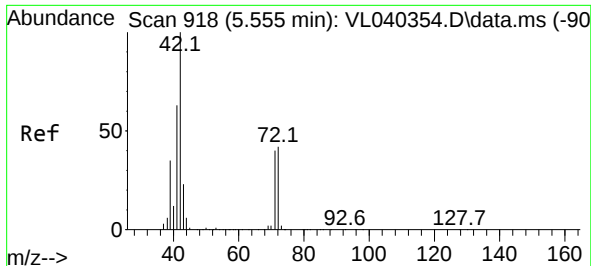
Delta R.T. -0.428 min

Lab File: VL040383.D

Acq: 19 Apr 2023 17:15

Tgt Ion: 63	Resp: 669920
Ion Ratio	Lower Upper
63 100	
41 0.0	59.6 89.4#
62 17.6	53.9 80.9#





#41

Tetrahydrofuran

Concen: 3.838 ppbv

RT: 5.201 min Scan# 80

Delta R.T. -0.354 min

Lab File: VL040383.D

Acq: 19 Apr 2023 17:15

Instrument :

MSVOA_L

ClientSampleId :

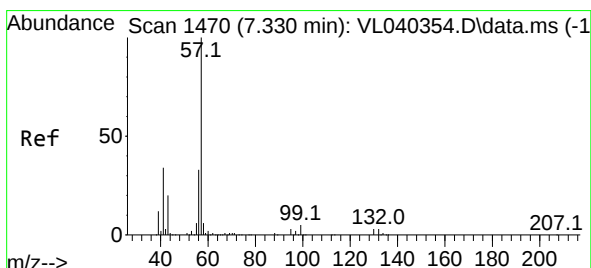
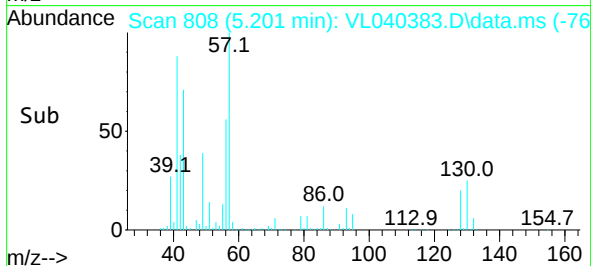
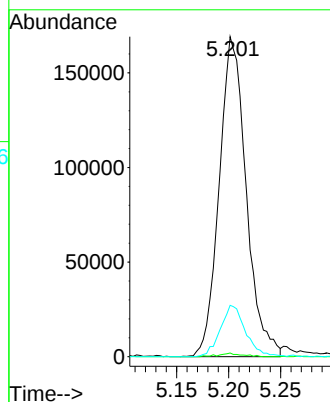
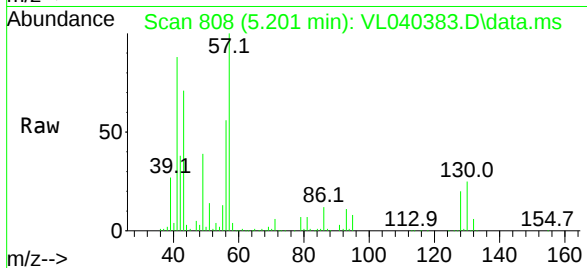
Tgt Ion: 42 Resp: 305801

Ion Ratio Lower Upper

42 100

72 0.9 33.7 50.5#

71 15.2 32.2 48.2#



#44

2,2,4-Trimethylpentane

Concen: 0.083 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. -0.010 min

Lab File: VL040383.D

Acq: 19 Apr 2023 17:15

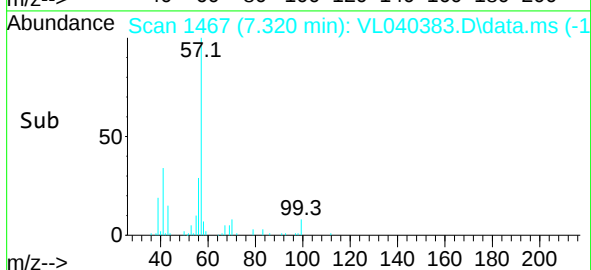
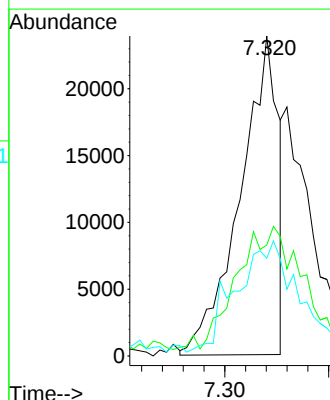
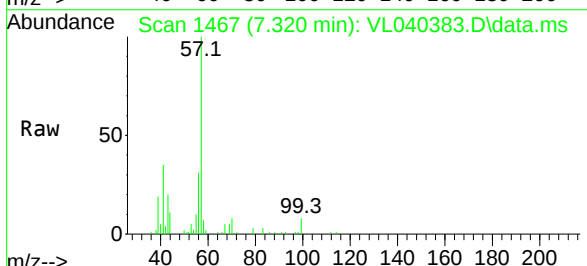
Tgt Ion: 57 Resp: 30367

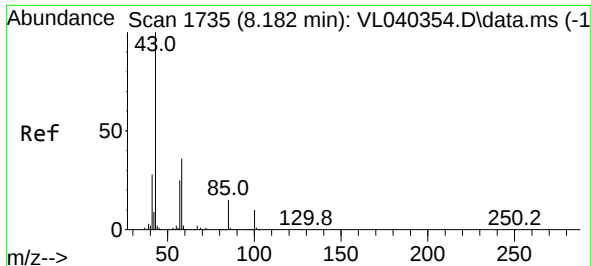
Ion Ratio Lower Upper

57 100

41 87.4 26.9 40.3#

56 68.3 25.1 37.7#

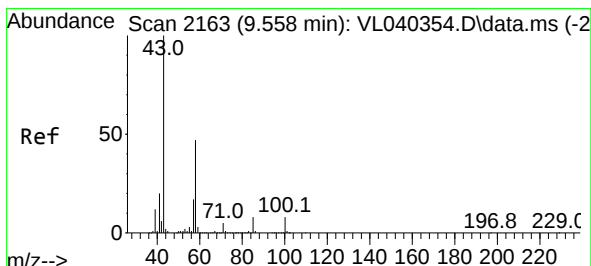
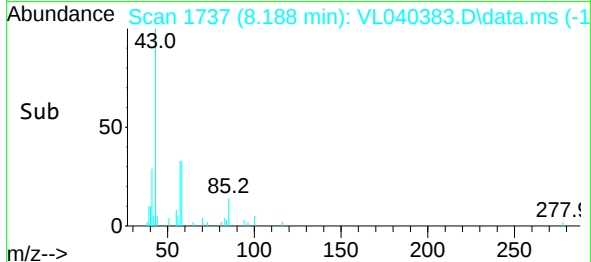
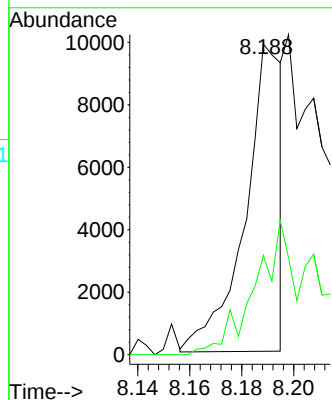
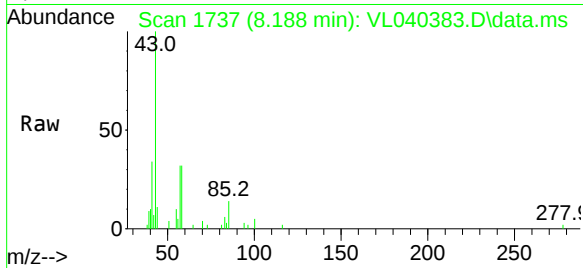




#50
4-Methyl-2-Pentanone
Concen: 0.043 ppbv
RT: 8.188 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

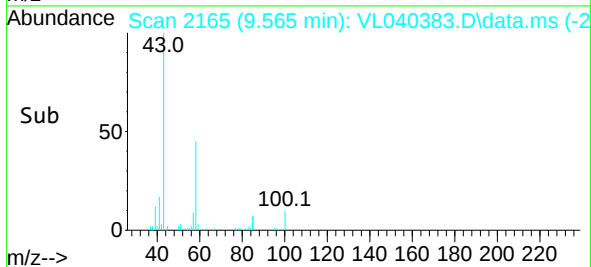
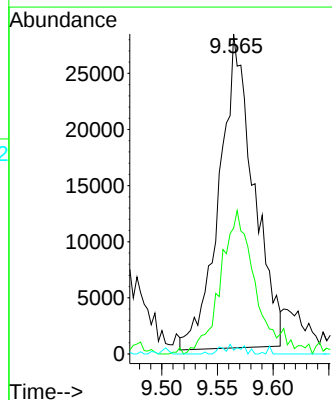
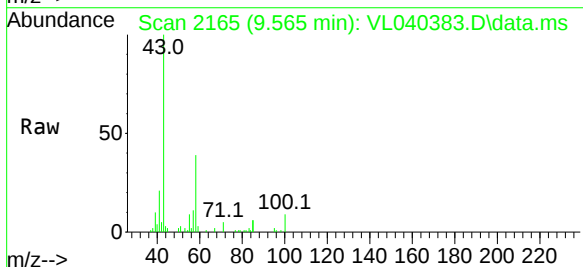
Instrument :
MSVOA_L
ClientSampleId :

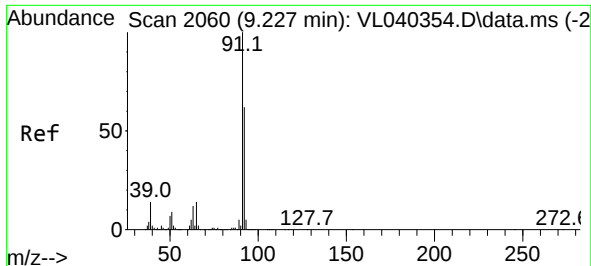
Tgt Ion: 43 Resp: 9541
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#51
2-Hexanone
Concen: 0.368 ppbv
RT: 9.565 min Scan# 2165
Delta R.T. 0.007 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 43 Resp: 60034
Ion Ratio Lower Upper
43 100
58 46.6 38.3 57.5
98 1.9 0.4 0.6#

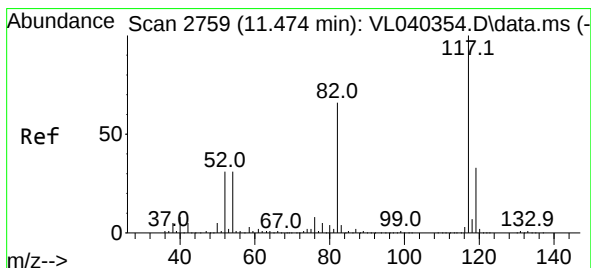
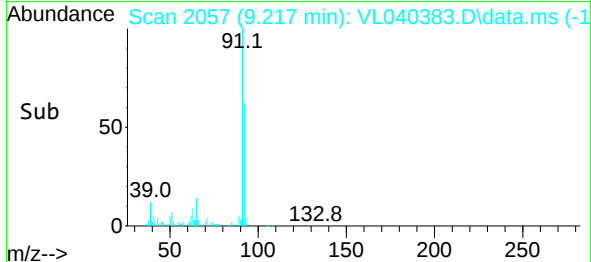
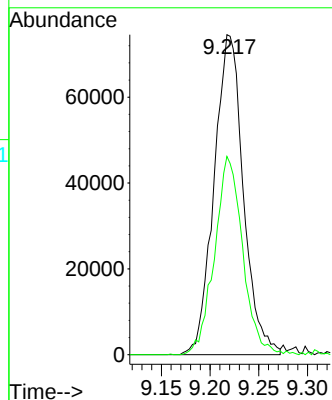
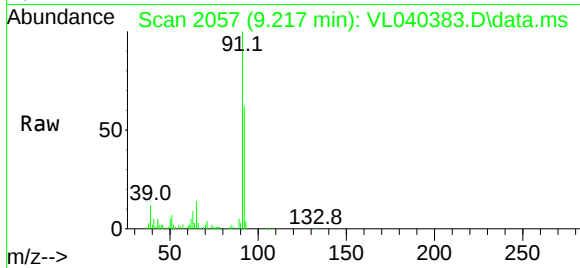




#53
Toluene
Concen: 0.668 ppbv
RT: 9.217 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

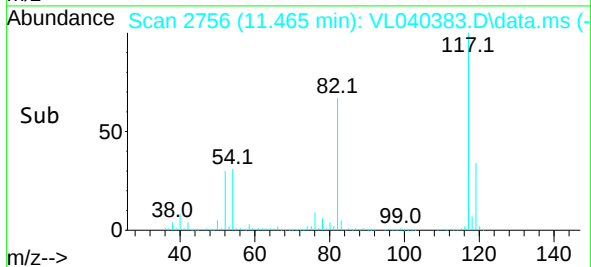
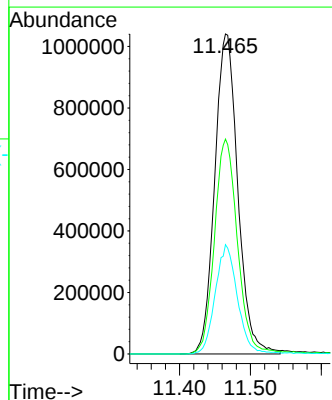
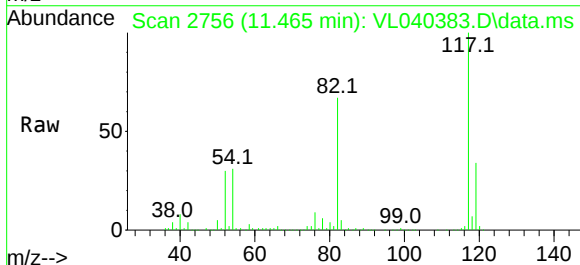
Instrument :
MSVOA_L
ClientSampleId :

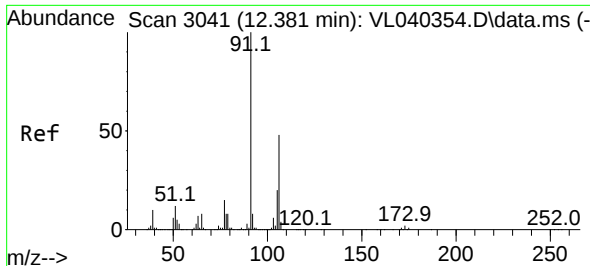
Tgt Ion: 91 Resp: 155830
Ion Ratio Lower Upper
91 100
92 59.7 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.009 min
Lab File: VL040383.D
Acq: 19 Apr 2023 17:15

Tgt Ion: 117 Resp: 2358204
Ion Ratio Lower Upper
117 100
82 67.7 52.5 78.7
119 32.9 24.3 36.5





#59

m/p-Xylene

Concen: 0.067 ppbv

RT: 12.375 min Scan# 3041

Delta R.T. -0.006 min

Lab File: VL040383.D

Acq: 19 Apr 2023 17:15

Instrument :

MSVOA_L

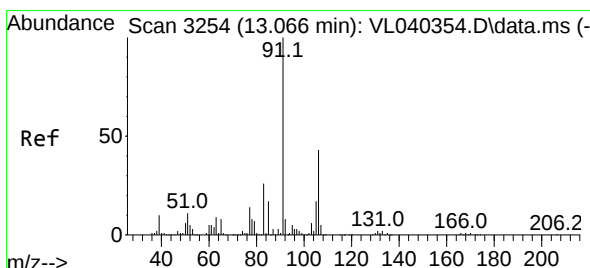
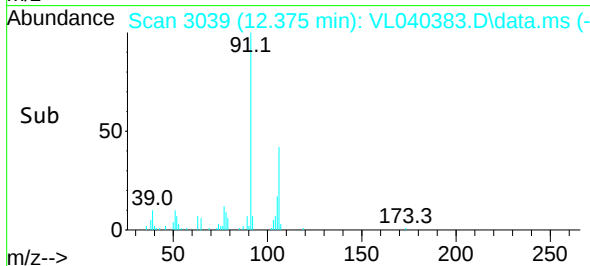
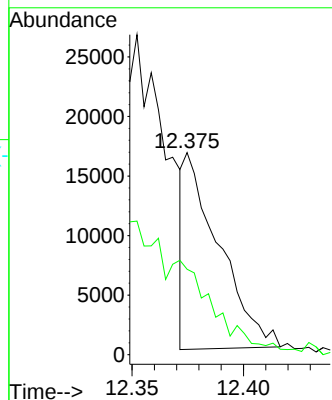
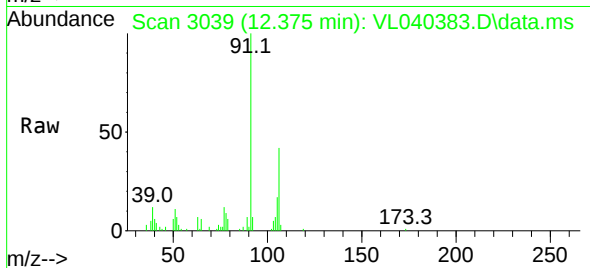
ClientSampleId :

Tgt Ion: 91 Resp: 17890

Ion Ratio Lower Upper

91 100

106 0.0 34.7 52.1#



#60

o-Xylene

Concen: 0.082 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. -0.006 min

Lab File: VL040383.D

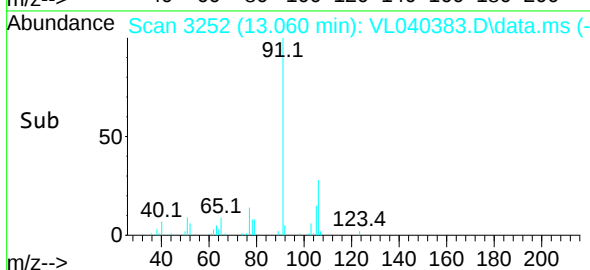
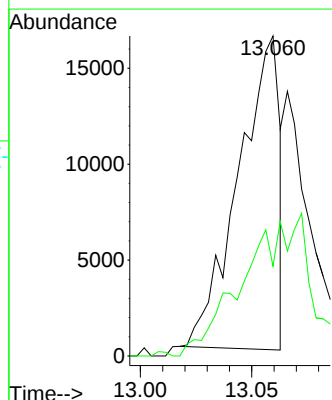
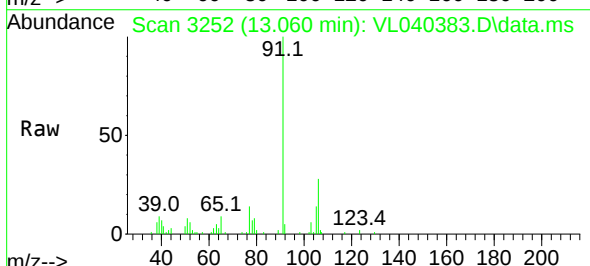
Acq: 19 Apr 2023 17:15

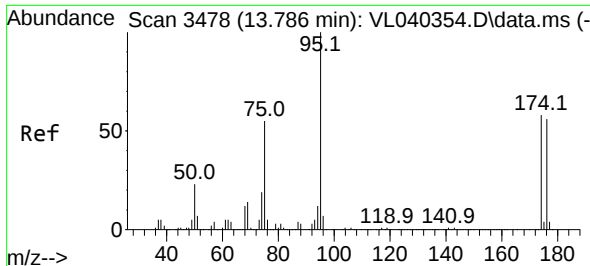
Tgt Ion: 91 Resp: 20902

Ion Ratio Lower Upper

91 100

106 0.0 21.9 65.8#

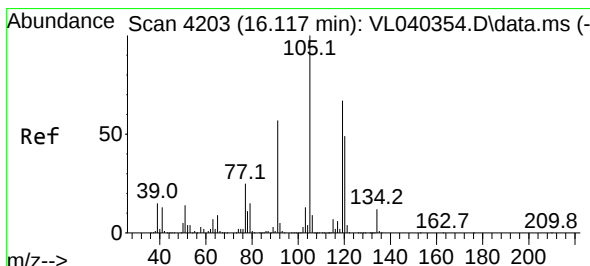
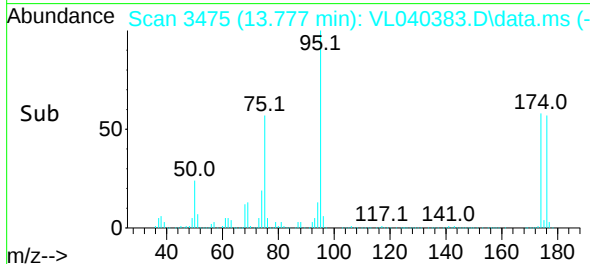
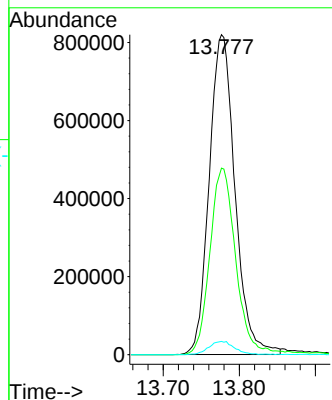
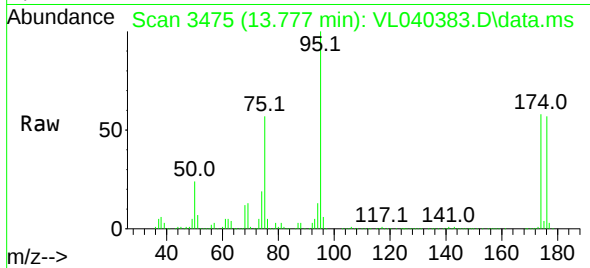




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 13.777 min Scan# 34
 Delta R.T. -0.009 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 1930852
 Ion Ratio Lower Upper
 95 100
 174 60.2 47.2 70.8
 175 4.3 3.5 5.3



#74
 1,2,4-Trimethylbenzene
 Concen: 0.058 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. -0.016 min
 Lab File: VL040383.D
 Acq: 19 Apr 2023 17:15

Tgt Ion: 105 Resp: 17188
 Ion Ratio Lower Upper
 105 100
 120 41.1 38.9 58.3
 91 12.2 46.0 69.0#
 77 26.1 20.0 30.0

