

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040149.D
 Acq On : 6 Feb 2023 17:04
 Operator : SY/MD
 Sample : 01438-04DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:57:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 31 05:24:57 2023
 Response via : Initial Calibration

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

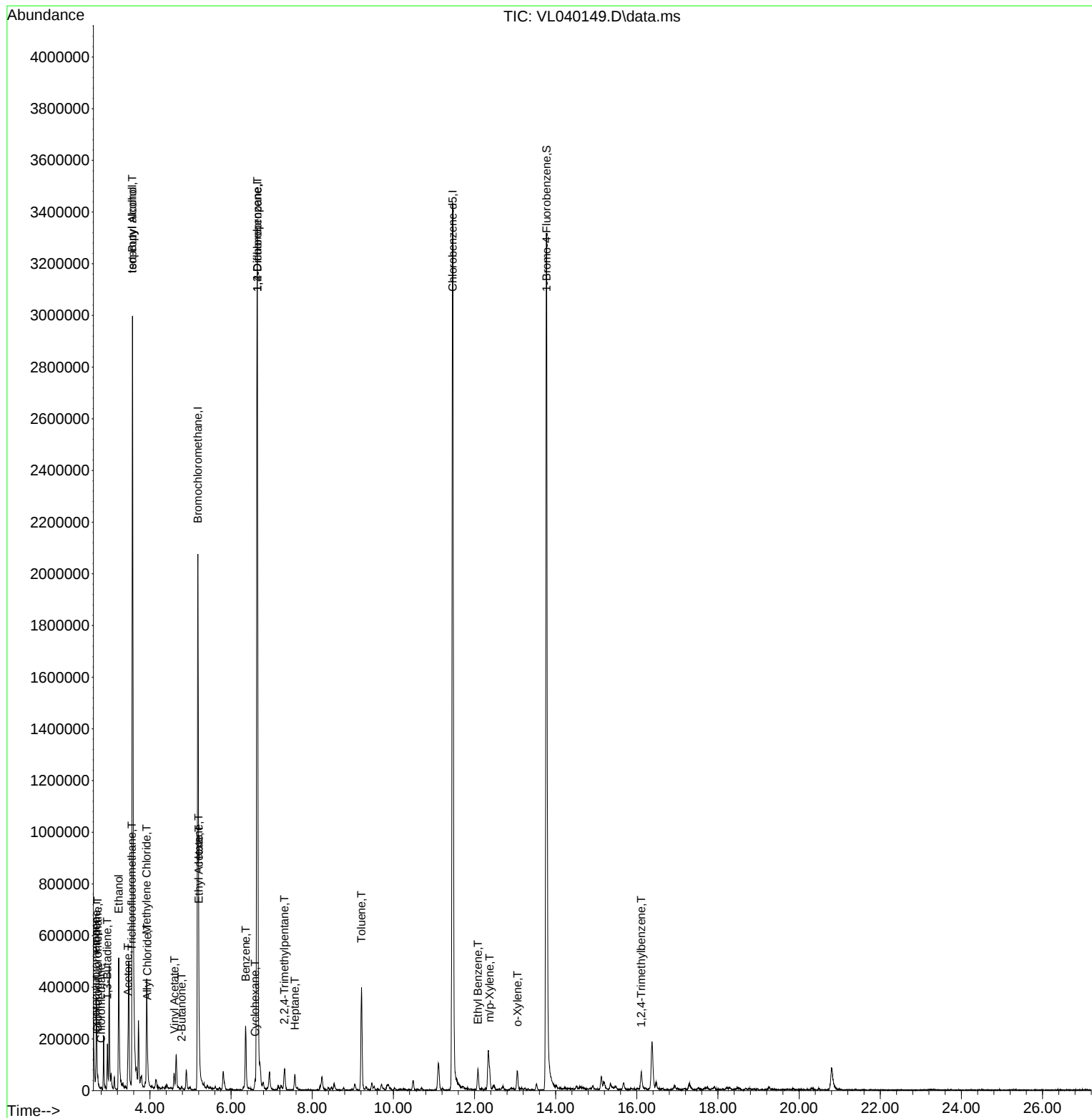
Internal Standards						
1) Bromochloromethane	5.179	49	993018	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2664889	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.461	117	2357825	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1748850	8.925	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	16130	0.093	ppbv	90
3) Chlorodifluoromethane	2.661	51	13055	0.110	ppbv #	89
4) Chloromethane	2.796	50	2803	0.038	ppbv	97
9) Propene	2.677	41	145750	2.945	ppbv	95
10) Heptane	7.571	43	24456	0.214	ppbv	89
11) Trichlorofluoromethane	3.552	101	14556	0.084	ppbv	97
13) Ethanol	3.230	45	512400	112.498	ppbv	99
15) Acetone	3.459	43	89248	0.749	ppbv #	55
16) 1,3-Butadiene	2.951	39	48511	0.874	ppbv #	27
17) tert-Butyl alcohol	3.568	59	128712	1.161	ppbv	99
19) Isopropyl Alcohol	3.568	45	3447758	59.169	ppbv #	94
20) Methylene Chloride	3.922	84	139396	2.653	ppbv	96
21) Allyl Chloride	3.938	41	5127	0.067	ppbv #	1
23) Vinyl Acetate	4.606	43	7374	0.191	ppbv #	1
25) Ethyl Acetate	5.205	43	47796	0.228	ppbv #	87
26) Hexane	5.201	57	65438	0.713	ppbv #	39
30) Cyclohexane	6.590	84	7563	0.104	ppbv #	7
34) 2-Butanone	4.780	43	9853	0.078	ppbv	92
36) Benzene	6.359	78	201118	1.020	ppbv	96
39) 1,2-Dichloropropane	6.645	63	643784	8.346	ppbv #	23
44) 2,2,4-Trimethylpentane	7.314	57	34126	0.104	ppbv #	12
53) Toluene	9.214	91	312952	1.488	ppbv	99
58) Ethyl Benzene	12.082	91	66935	0.254	ppbv	91
59) m/p-Xylene	12.371	91	35959	0.152	ppbv #	33
60) o-Xylene	13.060	91	56766	0.253	ppbv	92
74) 1,2,4-Trimethylbenzene	16.111	105	51103	0.206	ppbv #	70

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

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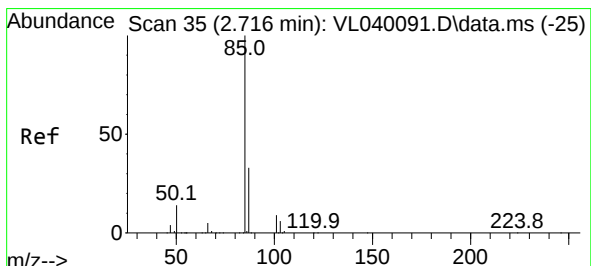
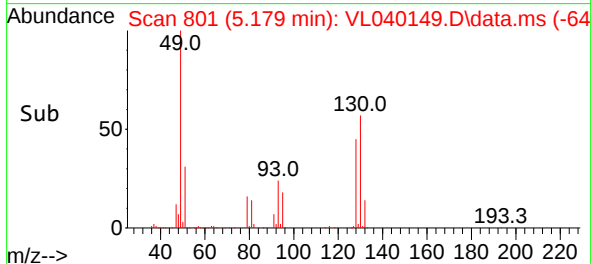
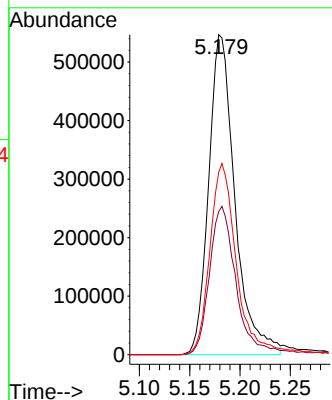
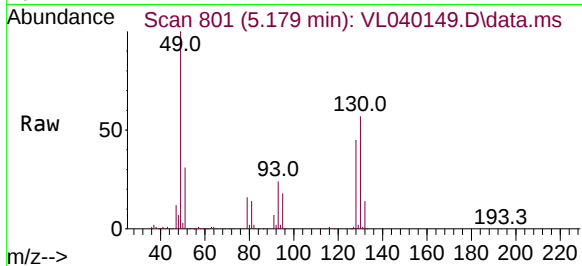




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 803
Delta R.T. -0.000 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

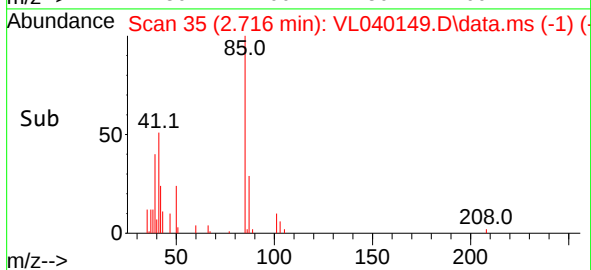
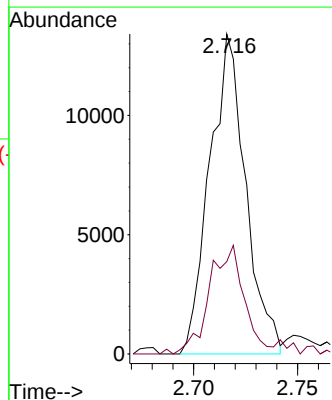
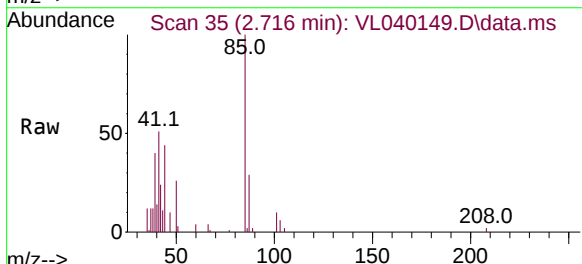
Instrument :
MSVOA_L
ClientSampleId :

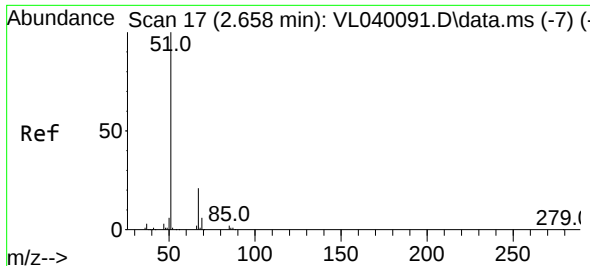
Tgt Ion: 49 Resp: 993018
Ion Ratio Lower Upper
49 100
128 48.5 23.6 71.0
130 62.0 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.093 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 85 Resp: 16130
Ion Ratio Lower Upper
85 100
87 27.6 26.5 39.7

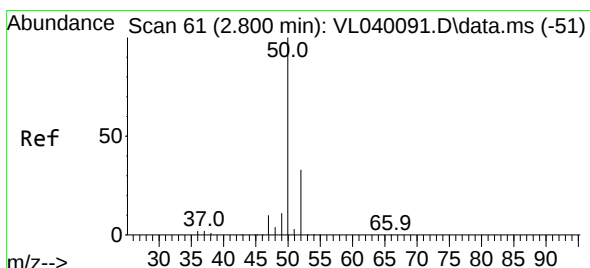
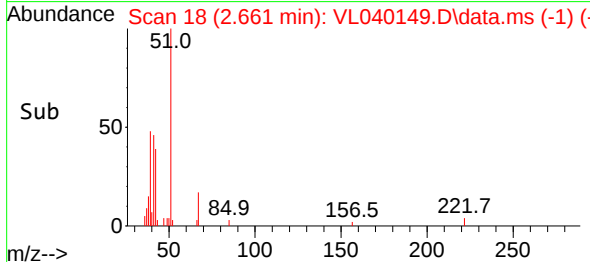
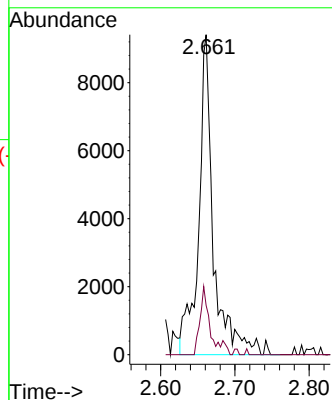
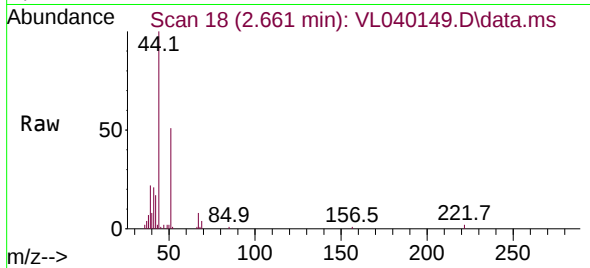




#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

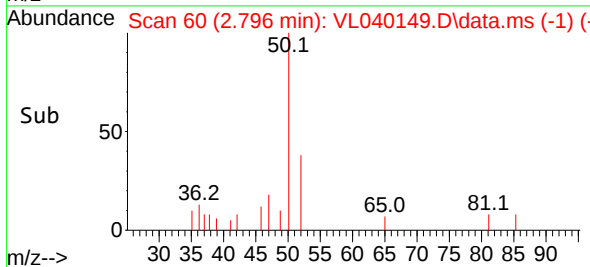
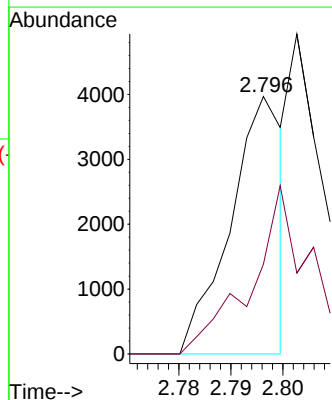
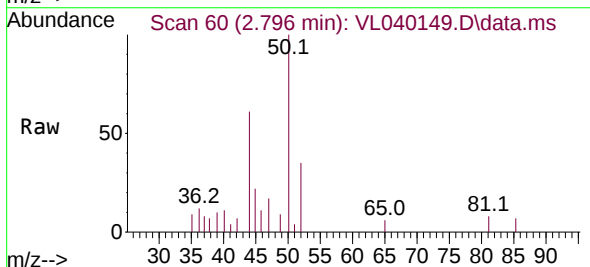
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 13055
Ion Ratio Lower Upper
51 100
67 15.5 16.4 24.6#

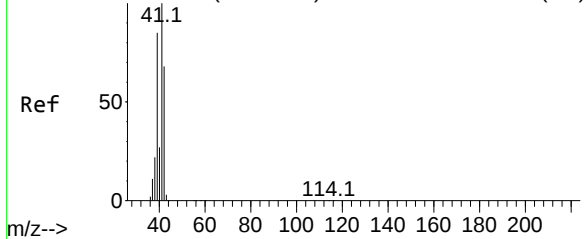


#4
Chloromethane
Concen: 0.038 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 50 Resp: 2803
Ion Ratio Lower Upper
50 100
52 34.9 26.5 39.7



Abundance Scan 23 (2.677 min): VL040091.D\data.ms (-15)



#9

Propene

Concen: 2.945 ppbv

RT: 2.677 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

Instrument :

MSVOA_L

ClientSampleId :

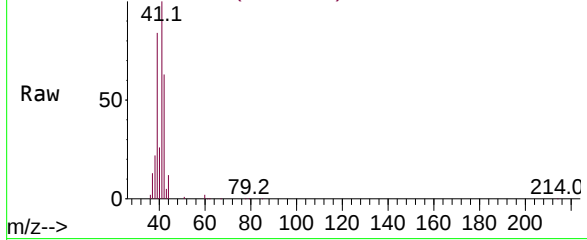
Tgt Ion: 41 Resp: 145750

Ion Ratio Lower Upper

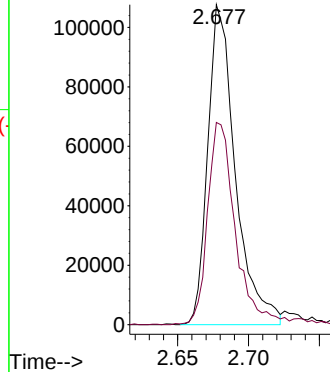
41 100

42 65.3 55.6 83.4

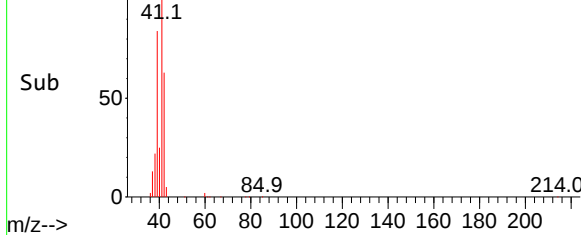
Abundance Scan 23 (2.677 min): VL040149.D\data.ms



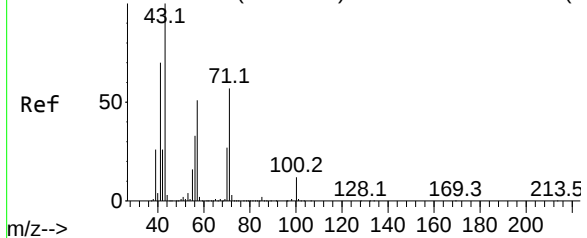
Abundance



Abundance Scan 23 (2.677 min): VL040149.D\data.ms (-1)



Abundance Scan 1548 (7.581 min): VL040091.D\data.ms (-1)



#10

Heptane

Concen: 0.214 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.003 min

Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

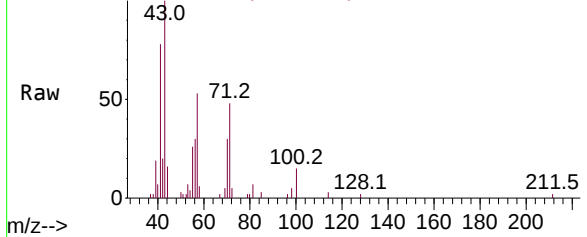
Tgt Ion: 43 Resp: 24456

Ion Ratio Lower Upper

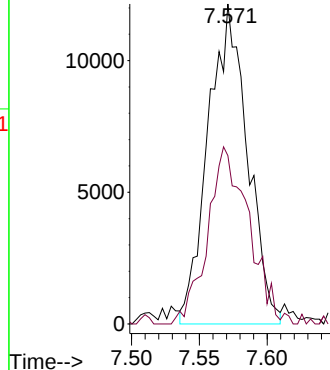
43 100

57 58.8 40.9 61.3

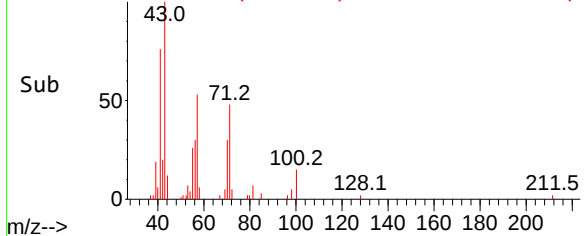
Abundance Scan 1545 (7.571 min): VL040149.D\data.ms

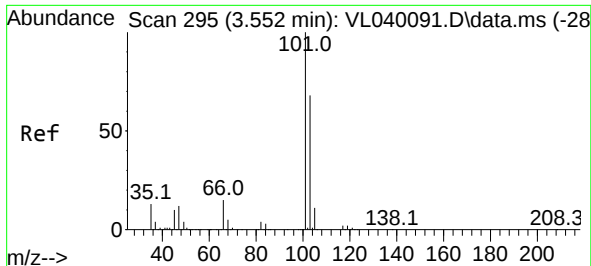


Abundance



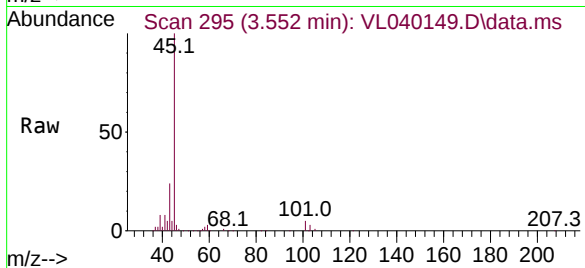
Abundance Scan 1545 (7.571 min): VL040149.D\data.ms (-1)



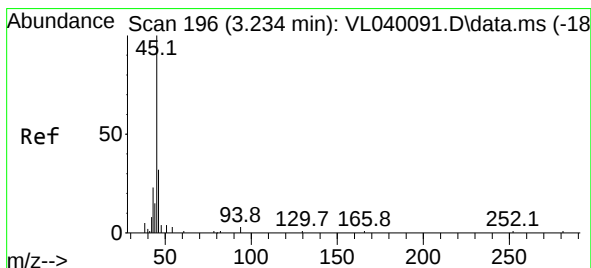
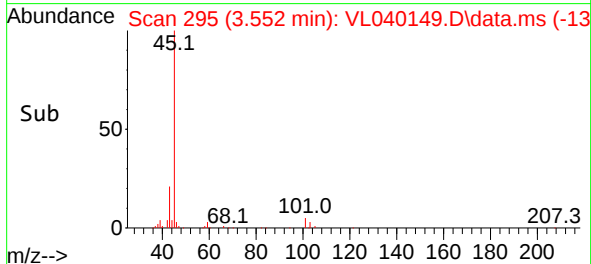
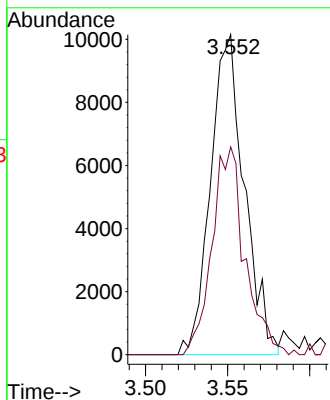


#11
 Trichlorofluoromethane
 Concen: 0.084 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. 0.006 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Instrument :
 MSVOA_L
 ClientSampleId :

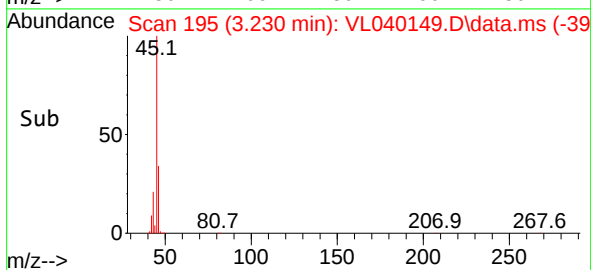
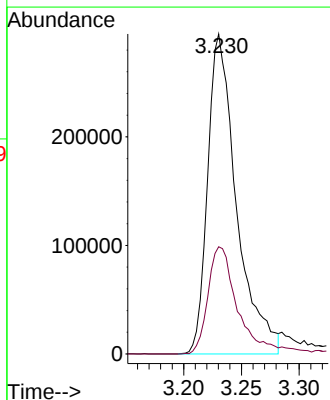
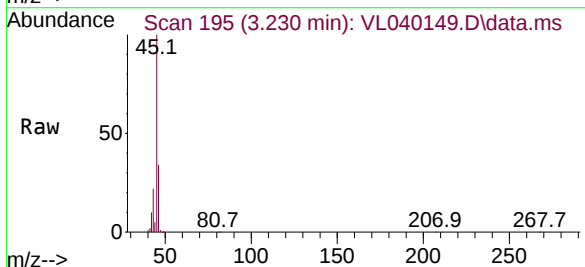


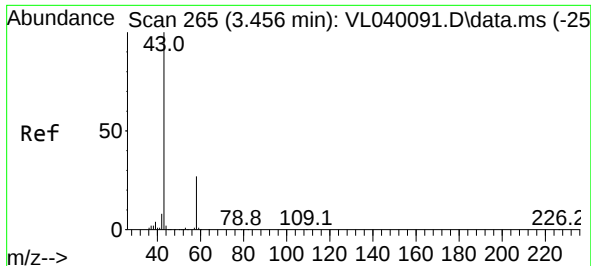
Tgt Ion:101 Resp: 14556
 Ion Ratio Lower Upper
 101 100
 103 65.0 54.0 81.0



#13
 Ethanol
 Concen: 112.498 ppbv
 RT: 3.230 min Scan# 195
 Delta R.T. 0.003 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Tgt Ion: 45 Resp: 512400
 Ion Ratio Lower Upper
 45 100
 46 36.3 14.8 59.2

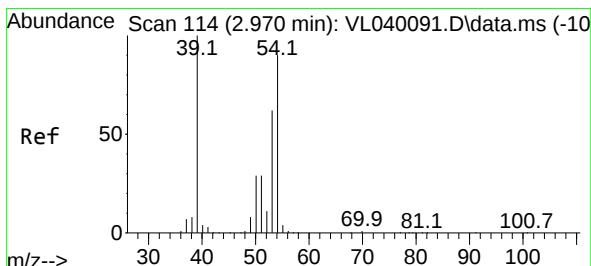
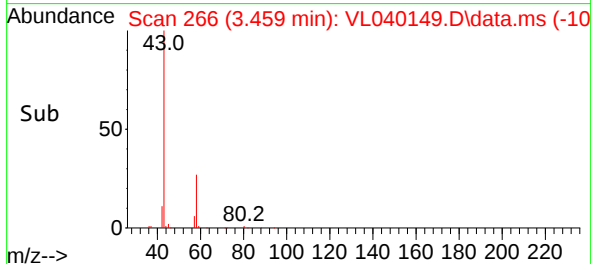
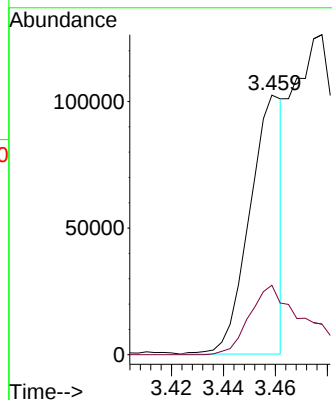
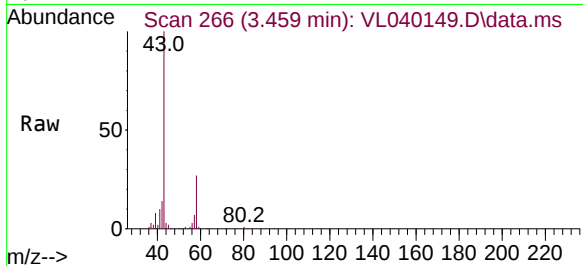




#15
Acetone
Concen: 0.749 ppbv
RT: 3.459 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

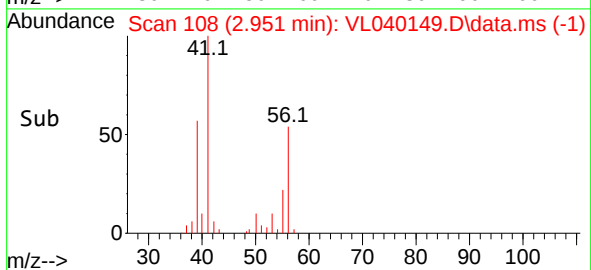
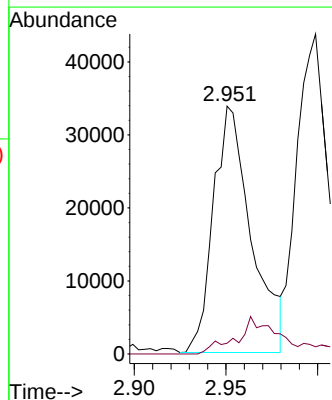
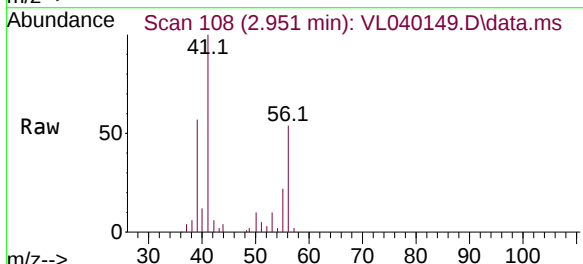
Instrument :
MSVOA_L
ClientSampleId :

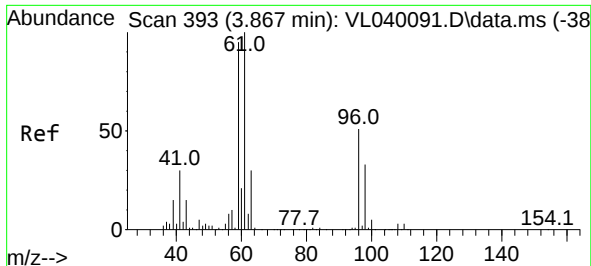
Tgt Ion: 43 Resp: 89248
Ion Ratio Lower Upper
43 100
58 50.5 21.8 32.8#



#16
1,3-Butadiene
Concen: 0.874 ppbv
RT: 2.951 min Scan# 108
Delta R.T. -0.016 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 39 Resp: 48511
Ion Ratio Lower Upper
39 100
54 18.7 67.9 101.9#





#17

tert-Butyl alcohol

Concen: 1.161 ppbv

RT: 3.568 min Scan# 300

Delta R.T. -0.293 min

Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

Instrument :

MSVOA_L

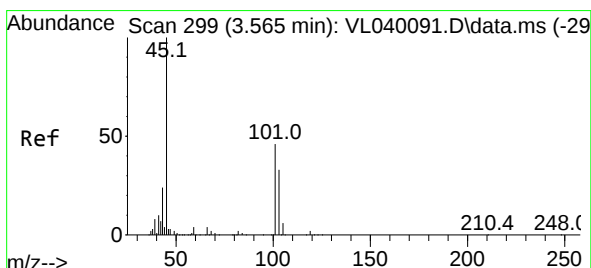
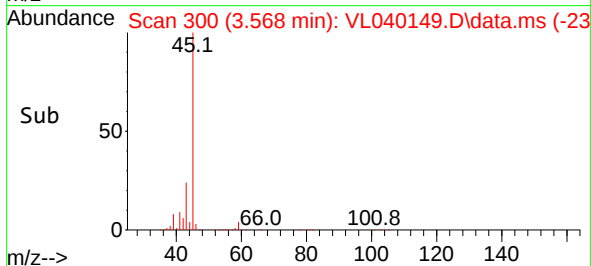
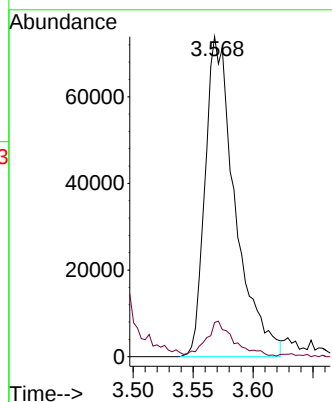
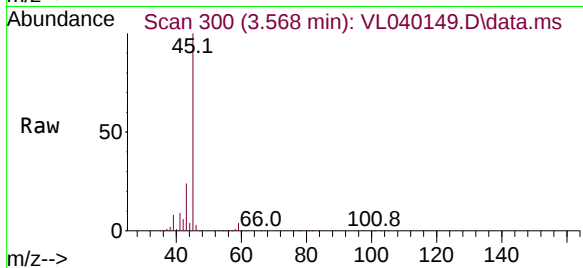
ClientSampleId :

Tgt Ion: 59 Resp: 128712

Ion Ratio Lower Upper

59 100

57 11.0 8.5 12.7



#19

Isopropyl Alcohol

Concen: 59.169 ppbv

RT: 3.568 min Scan# 300

Delta R.T. 0.010 min

Lab File: VL040149.D

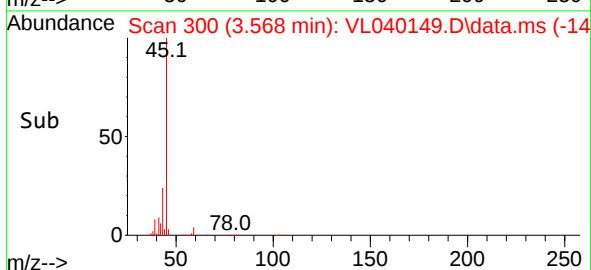
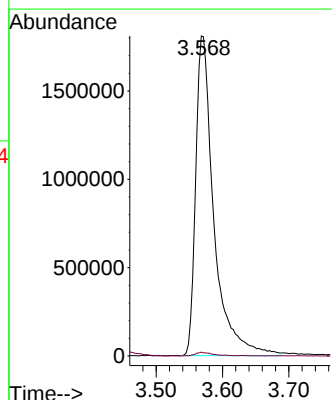
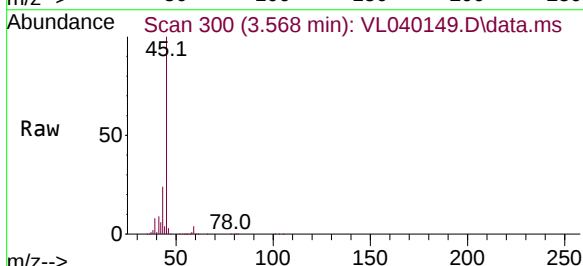
Acq: 6 Feb 2023 17:04

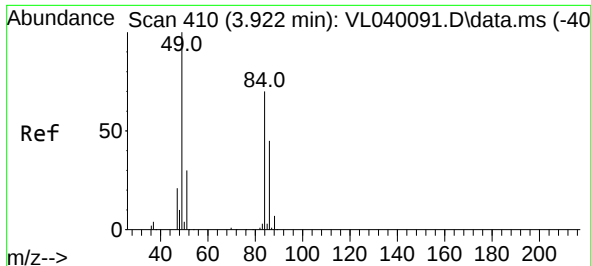
Tgt Ion: 45 Resp: 3447758

Ion Ratio Lower Upper

45 100

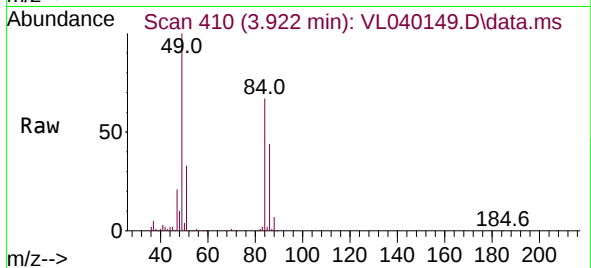
58 1.3 2.6 4.0#



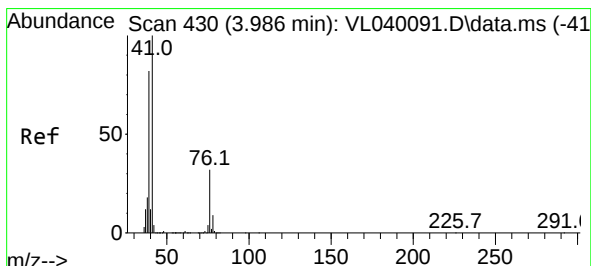
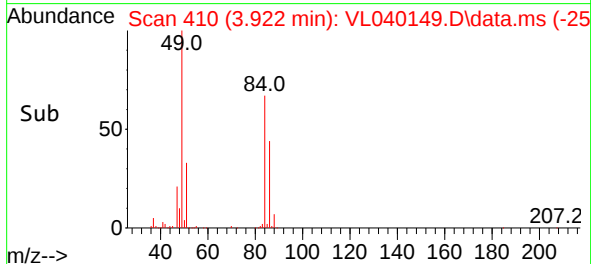
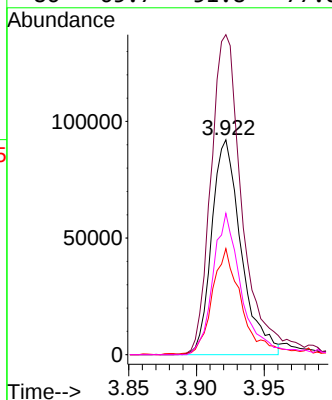


#20
Methylene Chloride
Concen: 2.653 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.006 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Instrument :
MSVOA_L
ClientSampleId :

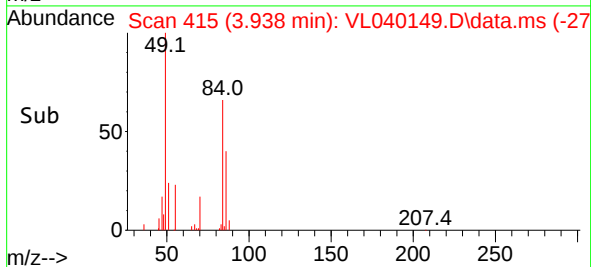
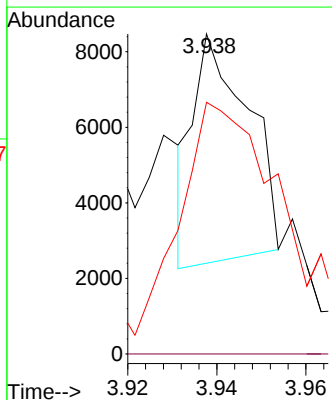
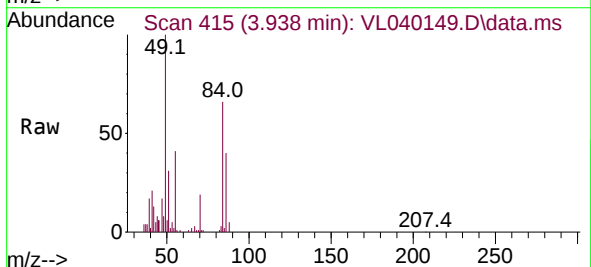


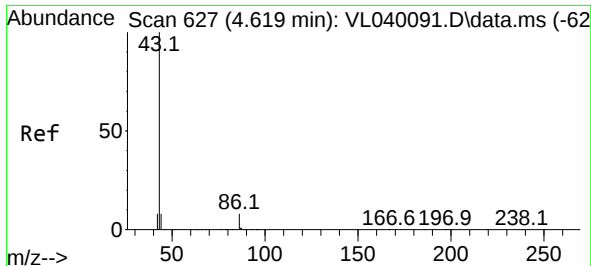
Tgt Ion: 84 Resp: 139396
Ion Ratio Lower Upper
84 100
49 148.6 114.6 171.8
51 49.1 34.3 51.5
86 65.7 51.8 77.8



#21
Allyl Chloride
Concen: 0.067 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.042 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

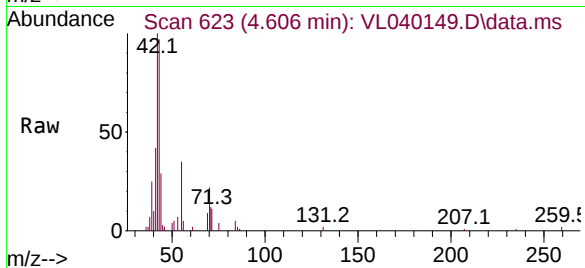
Tgt Ion: 41 Resp: 5127
Ion Ratio Lower Upper
41 100
76 0.6 25.9 38.9#
39 189.9 66.8 100.2#



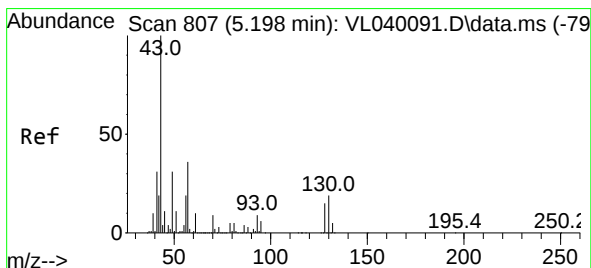
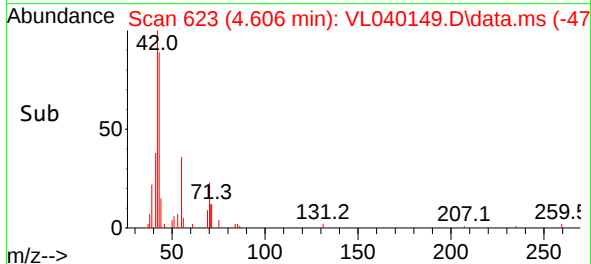
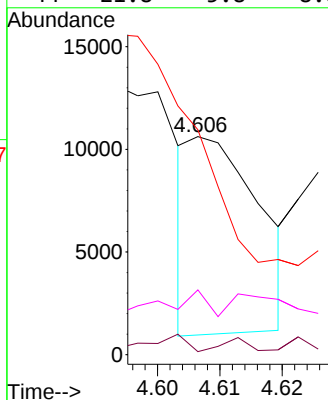


#23
 Vinyl Acetate
 Concen: 0.191 ppbv
 RT: 4.606 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Instrument :
 MSVOA_L
 ClientSampleId :

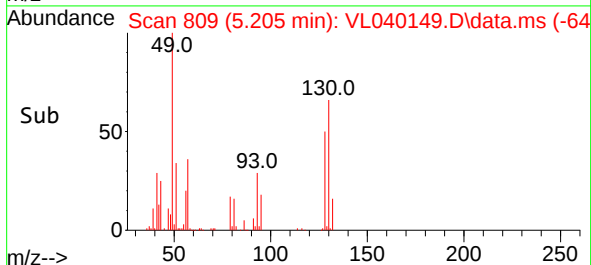
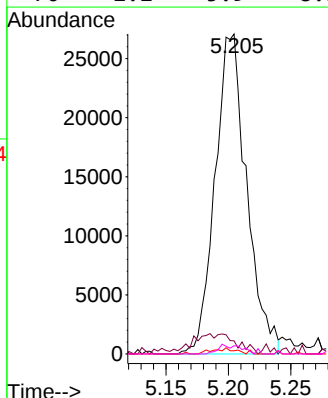
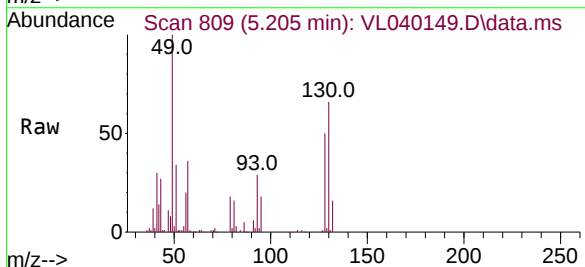


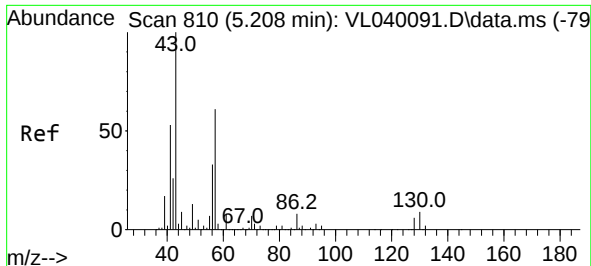
Tgt Ion: 43	Resp: 7374
Ion Ratio	Lower Upper
43 100	
86 0.0	5.6 8.4#
42 144.0	7.7 11.5#
44 21.8	5.8 8.8#



#25
 Ethyl Acetate
 Concen: 0.228 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. 0.016 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Tgt Ion: 43	Resp: 47796
Ion Ratio	Lower Upper
43 100	
45 10.1	8.5 12.7
61 1.5	8.4 12.6#
70 2.2	5.9 8.9#

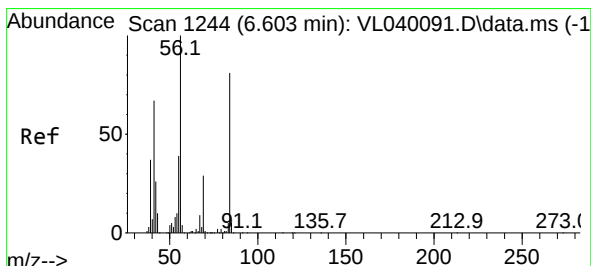
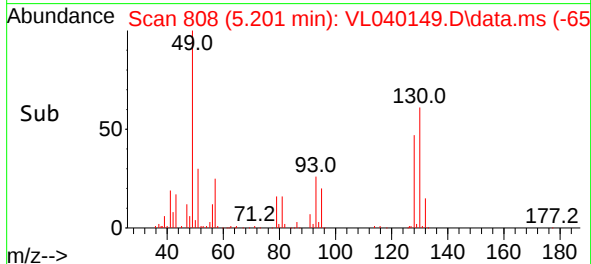
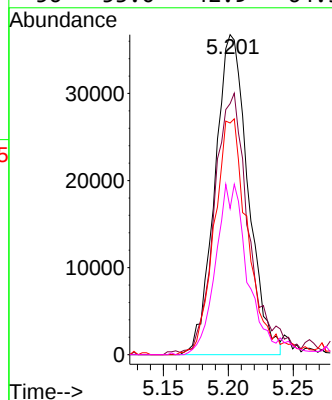
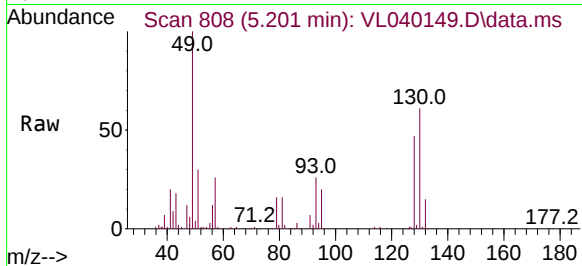




#26
Hexane
Concen: 0.713 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

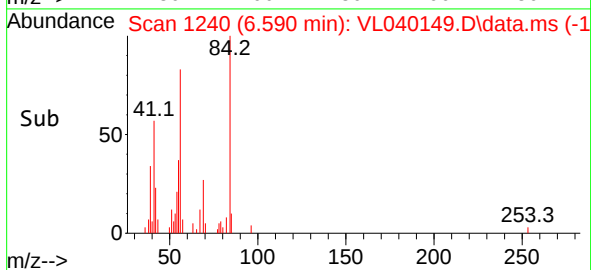
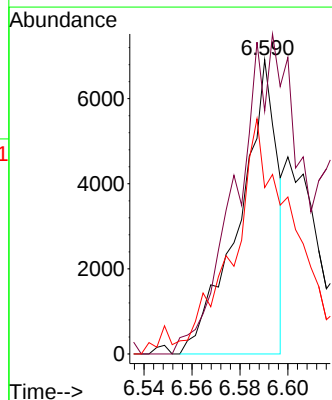
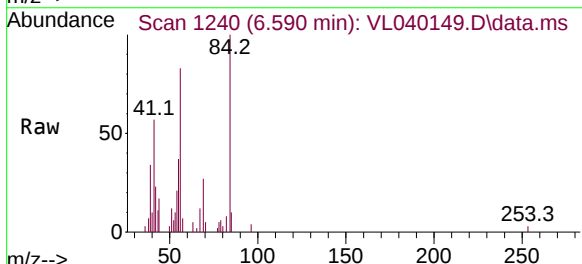
Instrument :
MSVOA_L
ClientSampleId :

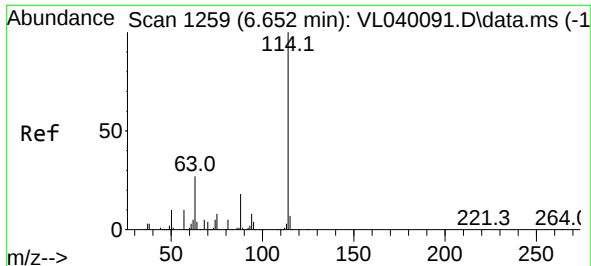
Tgt Ion: 57 Resp: 65438
Ion Ratio Lower Upper
57 100
41 88.9 72.2 108.4
43 75.9 192.1 288.1#
56 53.0 42.9 64.3



#30
Cyclohexane
Concen: 0.104 ppbv
RT: 6.590 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 84 Resp: 7563
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 145.5 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. 0.003 min

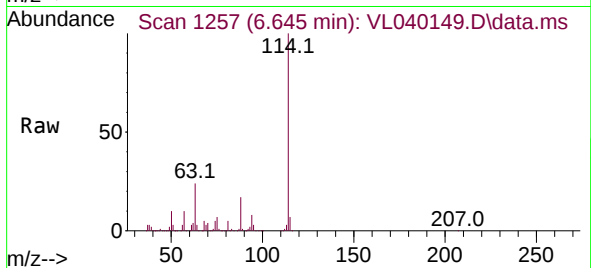
Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

Instrument :

MSVOA_L

ClientSampleId :



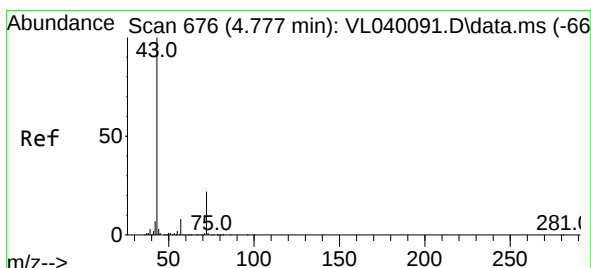
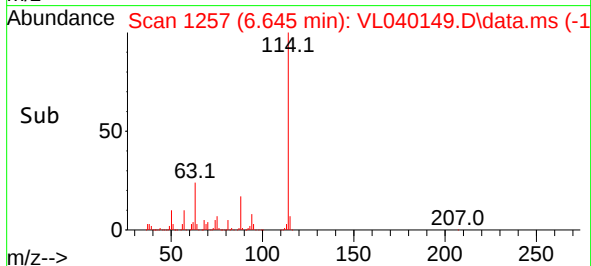
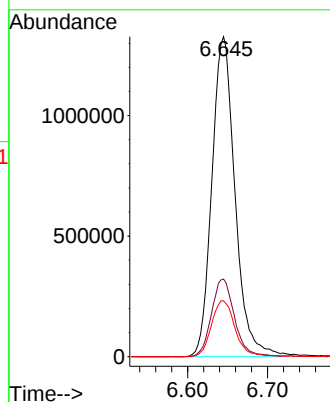
Tgt Ion:114 Resp: 2664889

Ion Ratio Lower Upper

114 100

63 24.4 21.8 32.8

88 18.1 14.8 22.2



#34

2-Butanone

Concen: 0.078 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.010 min

Lab File: VL040149.D

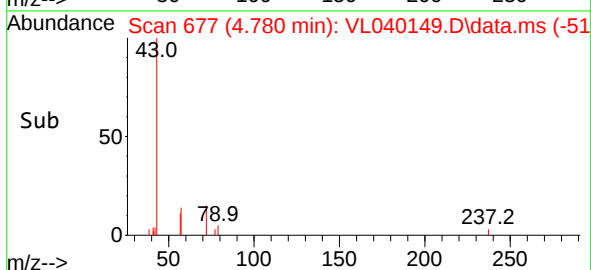
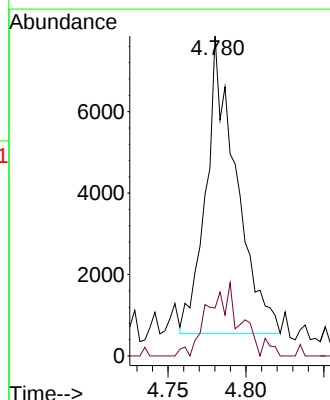
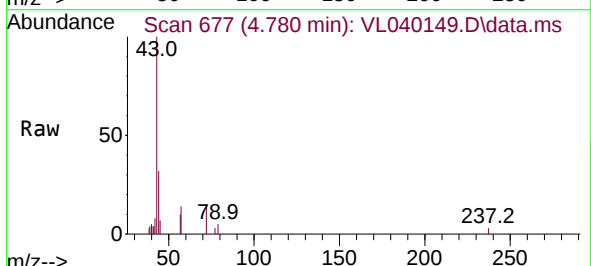
Acq: 6 Feb 2023 17:04

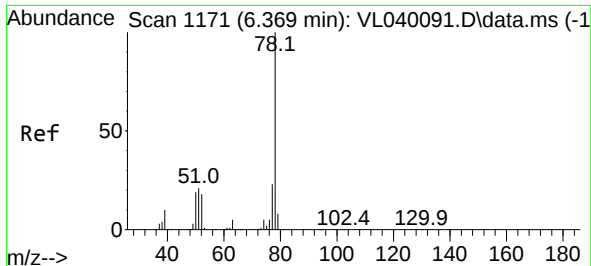
Tgt Ion: 43 Resp: 9853

Ion Ratio Lower Upper

43 100

72 26.9 18.4 27.6

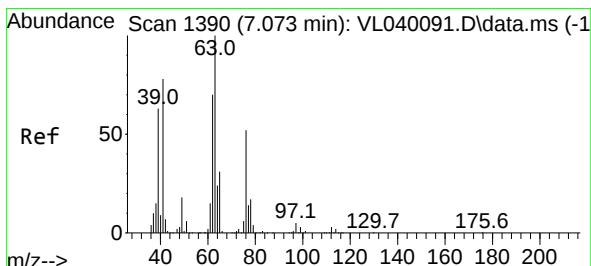
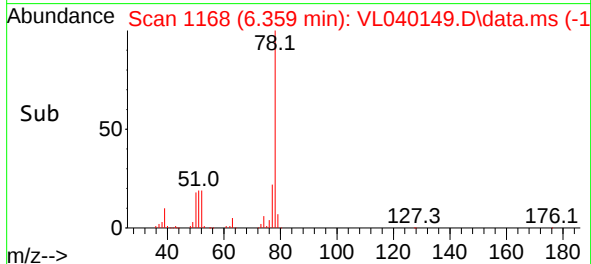
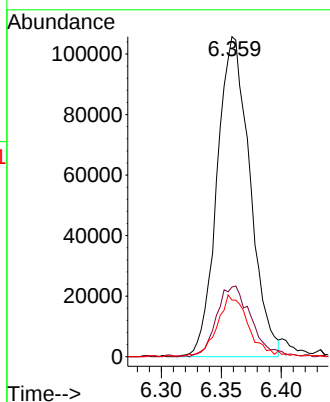
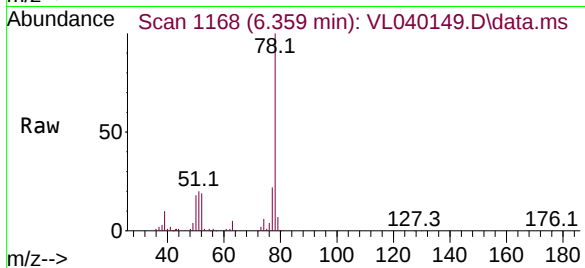




#36
Benzene
Concen: 1.020 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.000 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

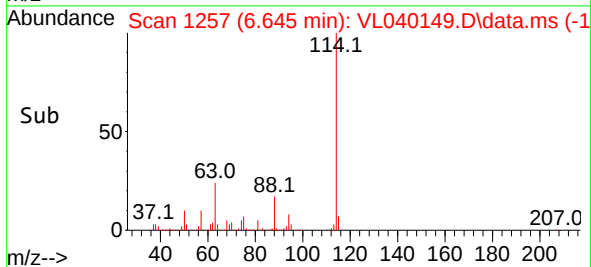
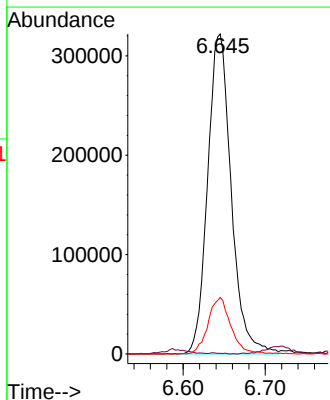
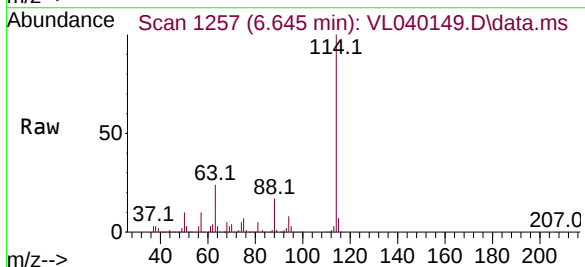
Instrument :
MSVOA_L
ClientSampleId :

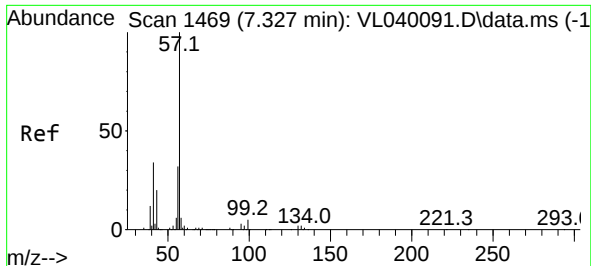
Tgt Ion: 78 Resp: 201118
Ion Ratio Lower Upper
78 100
77 21.7 18.1 27.1
50 16.7 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.346 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.418 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 63 Resp: 643784
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 17.7 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.104 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. -0.000 min

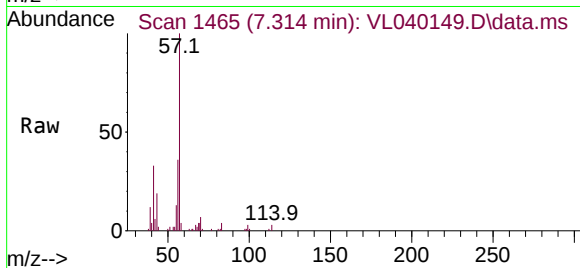
Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

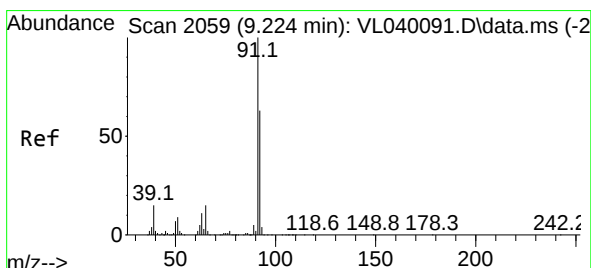
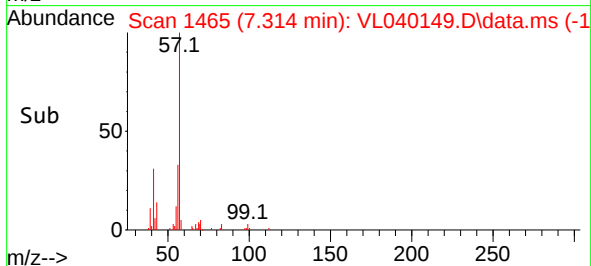
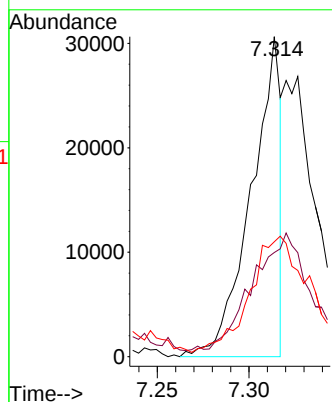
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	57	Resp:	34126
Ion	Ratio	Lower	Upper
57	100		
41	83.3	27.1	40.7#
56	80.3	25.0	37.4#



#53

Toluene

Concen: 1.488 ppbv

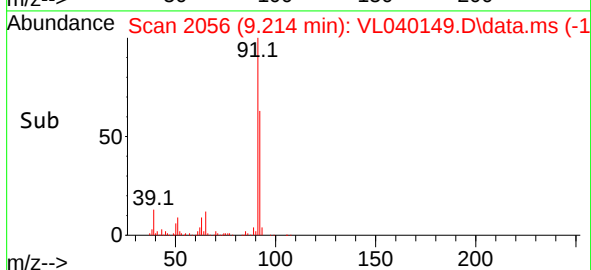
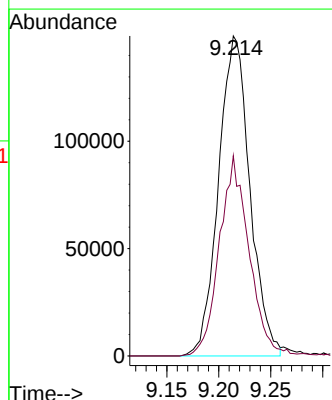
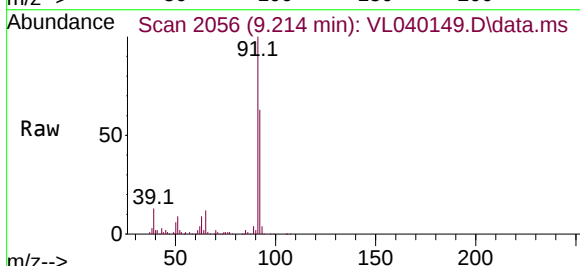
RT: 9.214 min Scan# 2056

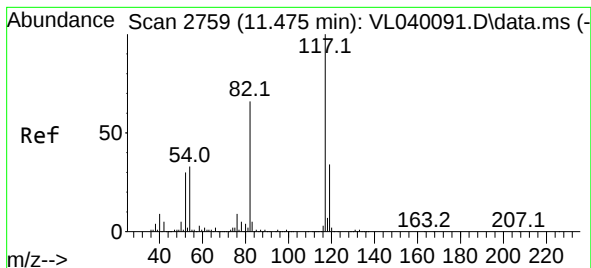
Delta R.T. 0.003 min

Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

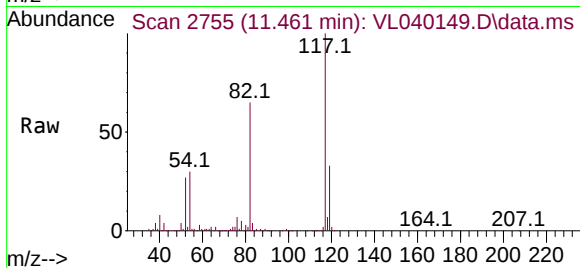
Tgt Ion:	91	Resp:	312952
Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.3	72.5



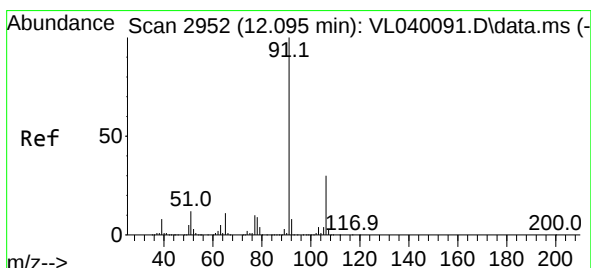
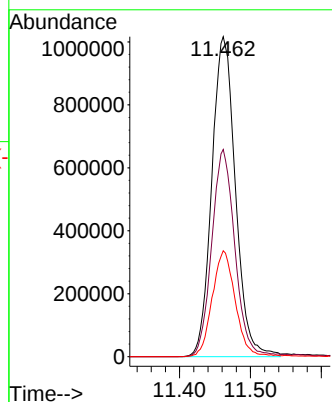
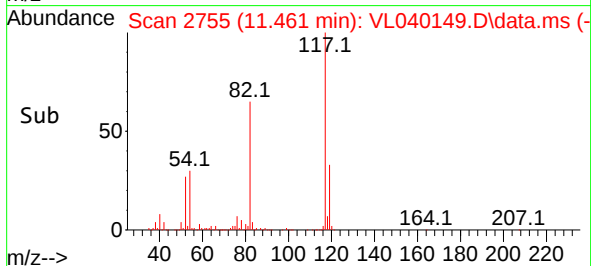


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.461 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Instrument :
MSVOA_L
ClientSampleId :

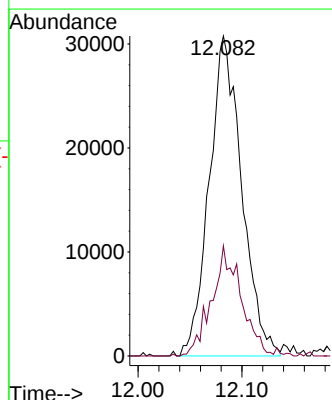
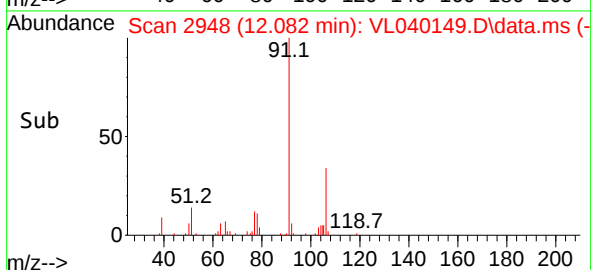
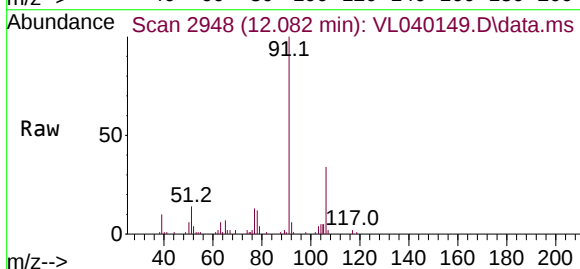


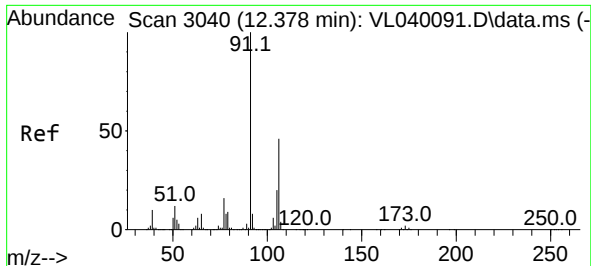
Tgt Ion:117 Resp: 2357825
Ion Ratio Lower Upper
117 100
82 64.4 54.4 81.6
119 32.7 26.8 40.2



#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.000 min
Lab File: VL040149.D
Acq: 6 Feb 2023 17:04

Tgt Ion: 91 Resp: 66935
Ion Ratio Lower Upper
91 100
106 34.4 23.7 35.5





#59

m/p-Xylene

Concen: 0.152 ppbv

RT: 12.371 min Scan# 3040

Delta R.T. 0.006 min

Lab File: VL040149.D

Acq: 6 Feb 2023 17:04

Instrument :

MSVOA_L

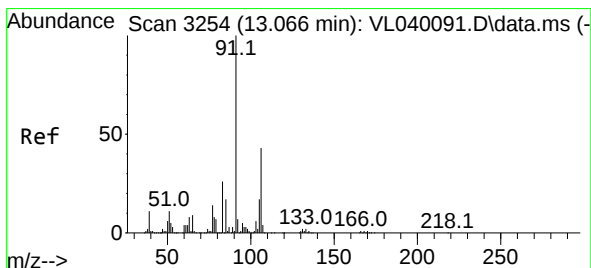
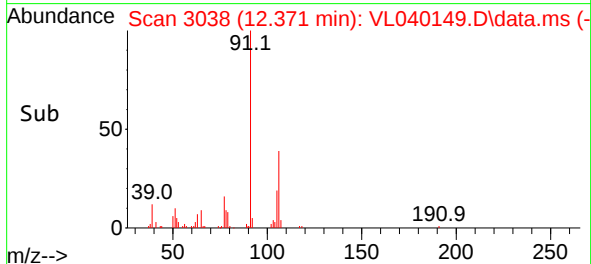
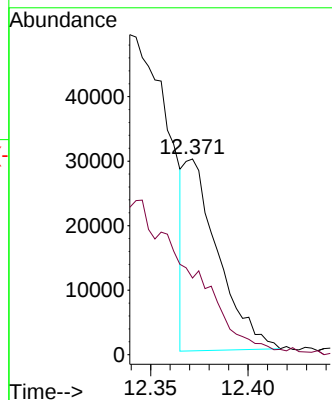
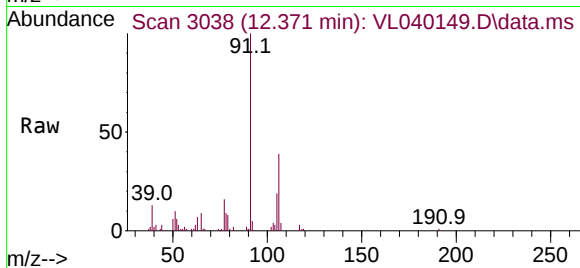
ClientSampleId :

Tgt Ion: 91 Resp: 35959

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.4#



#60

o-Xylene

Concen: 0.253 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.010 min

Lab File: VL040149.D

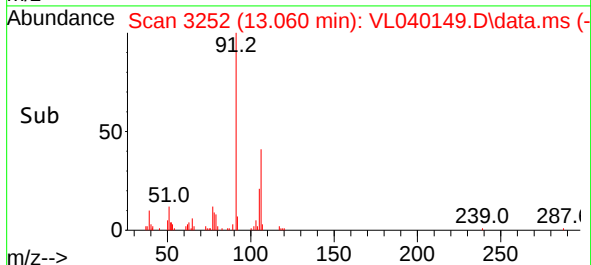
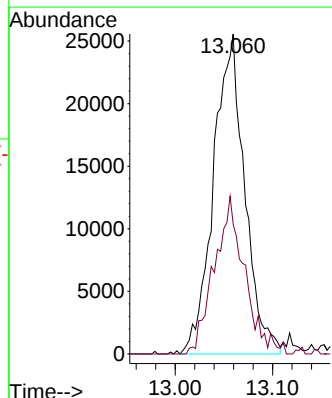
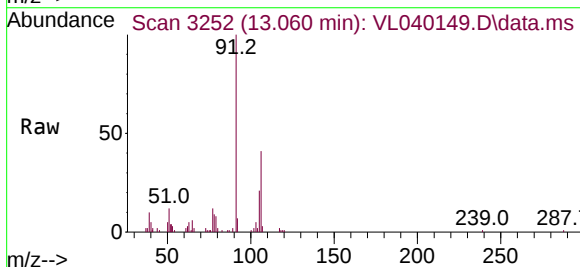
Acq: 6 Feb 2023 17:04

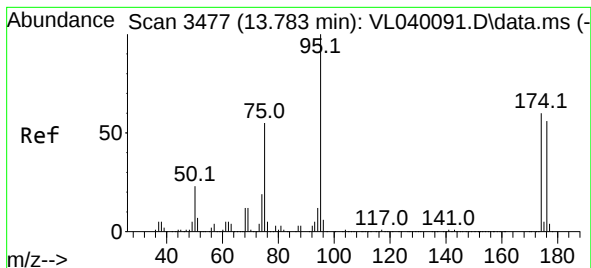
Tgt Ion: 91 Resp: 56766

Ion Ratio Lower Upper

91 100

106 48.2 21.6 64.8

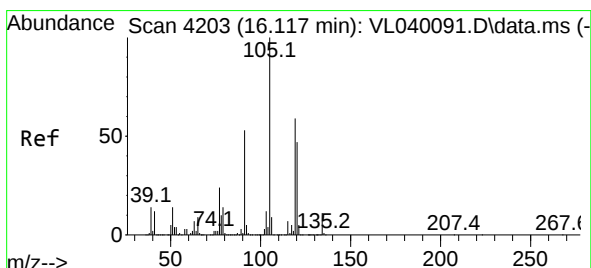
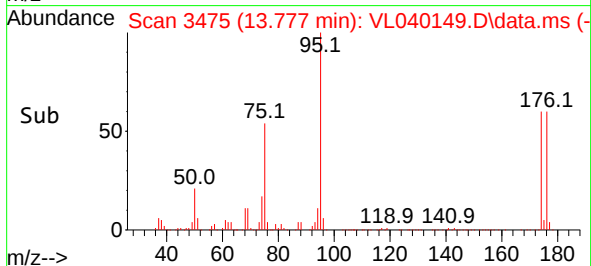
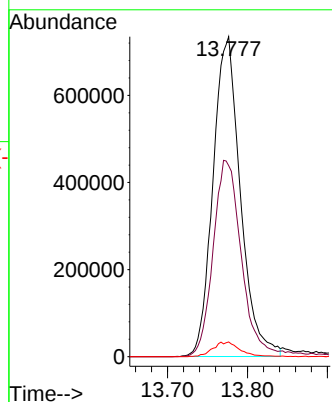
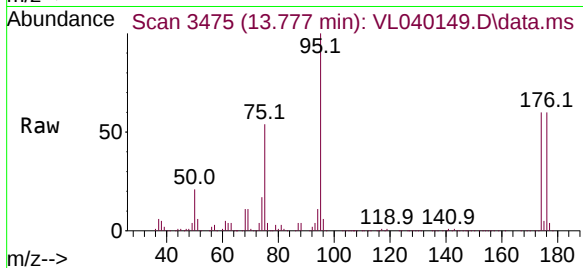




#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.925 ppbv
 RT: 13.777 min Scan# 3477
 Delta R.T. 0.006 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Instrument :
 MSVOA_1
 ClientSampleId :

Tgt Ion: 95 Resp: 1748850
 Ion Ratio Lower Upper
 95 100
 174 65.1 47.7 71.5
 175 4.6 3.4 5.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.206 ppbv
 RT: 16.111 min Scan# 4201
 Delta R.T. 0.010 min
 Lab File: VL040149.D
 Acq: 6 Feb 2023 17:04

Tgt Ion: 105 Resp: 51103
 Ion Ratio Lower Upper
 105 100
 120 41.6 38.0 57.0
 91 11.9 42.1 63.1#
 77 17.4 19.3 28.9#

