

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040766.D
 Acq On : 11 Oct 2023 21:45
 Operator : SY/MD
 Sample : 04827-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 00:28:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

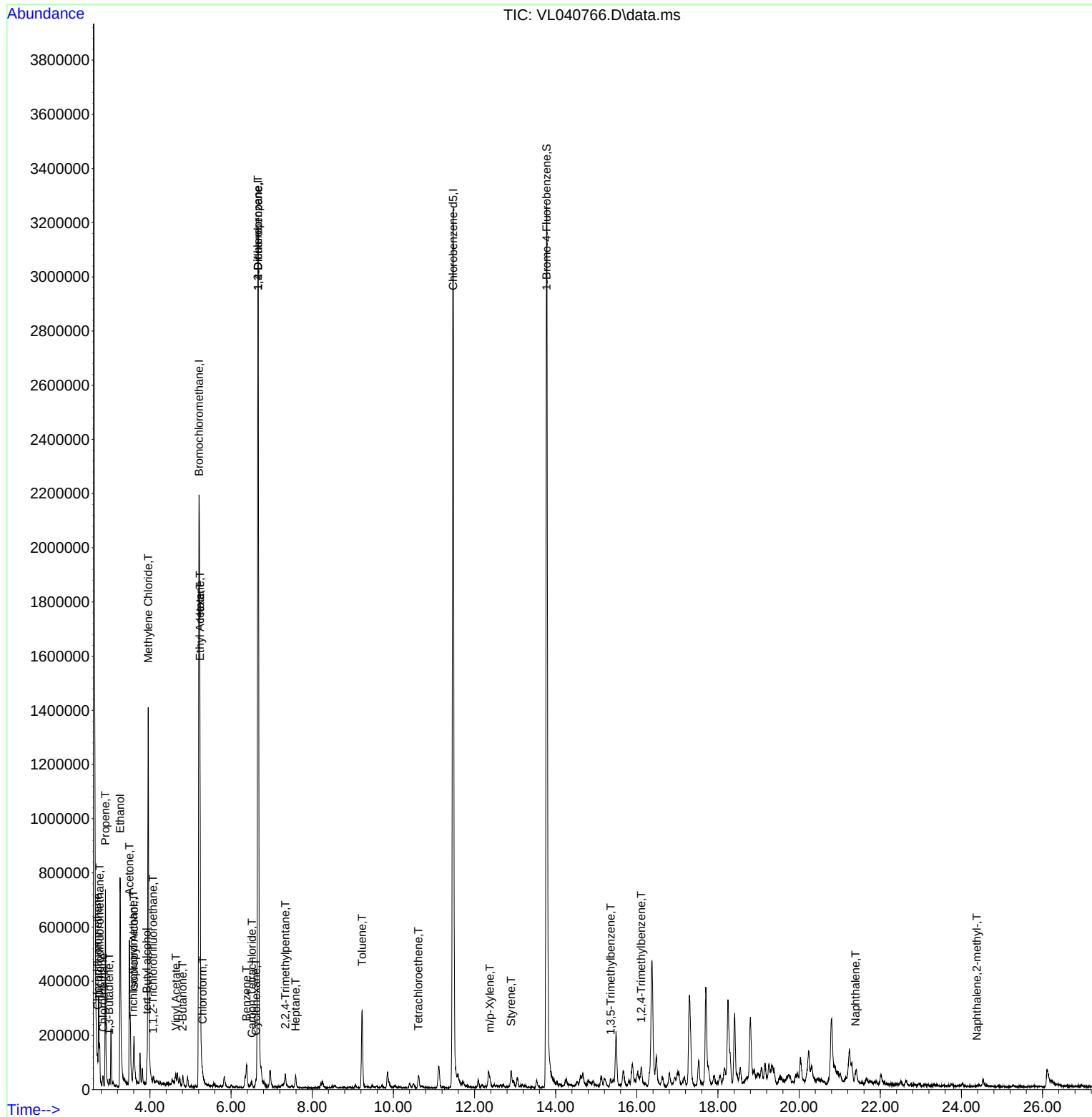
Internal Standards						
1) Bromochloromethane	5.208	49	950762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2638121	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2345252	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1739183	10.078	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	87760	0.524	ppbv	96
3) Chlorodifluoromethane	2.710	51	112987	0.809	ppbv #	88
4) Chloromethane	2.845	50	23939	0.434	ppbv	95
9) Propene	2.902	41	174416	3.361	ppbv	100
10) Heptane	7.590	43	19864	0.152	ppbv	88
11) Trichlorofluoromethane	3.587	101	31640	0.245	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.079	101	2990	0.032	ppbv #	13
13) Ethanol	3.266	45	830441	70.885	ppbv	99
15) Acetone	3.494	43	561471	5.712	ppbv	98
16) 1,3-Butadiene	2.999	39	6138	0.119	ppbv #	10
17) tert-Butyl alcohol	3.925	59	9472	0.094	ppbv #	83
19) Isopropyl Alcohol	3.607	45	190114	3.005	ppbv #	35
20) Methylene Chloride	3.957	84	474850	11.598	ppbv	97
23) Vinyl Acetate	4.639	43	22936	0.183	ppbv #	58
25) Ethyl Acetate	5.234	43	336404	1.562	ppbv #	80
26) Hexane	5.230	57	456620	4.639	ppbv #	43
29) Chloroform	5.295	83	4435	0.031	ppbv	87
30) Cyclohexane	6.613	84	5786	0.069	ppbv #	13
34) 2-Butanone	4.806	43	23088	0.193	ppbv #	55
35) Carbon Tetrachloride	6.513	117	5791	0.039	ppbv	90
36) Benzene	6.378	78	30727	0.151	ppbv	93
39) 1,2-Dichloropropane	6.664	63	618103	7.797	ppbv #	26
44) 2,2,4-Trimethylpentane	7.336	57	20603	0.060	ppbv #	15
52) Tetrachloroethene	10.619	164	2696	0.033	ppbv #	14
53) Toluene	9.230	91	231431	0.958	ppbv	98
59) m/p-Xylene	12.378	91	13994	0.058	ppbv #	30
61) Styrene	12.902	104	20997	0.164	ppbv #	31
73) 1,3,5-Trimethylbenzene	15.355	105	10063	0.042	ppbv	96
74) 1,2,4-Trimethylbenzene	16.111	105	30328	0.116	ppbv #	62
79) Naphthalene	21.390	128	12747	0.060	ppbv #	85
80) Naphthalene,2-methyl-	24.381	142	4287	0.072	ppbv #	85

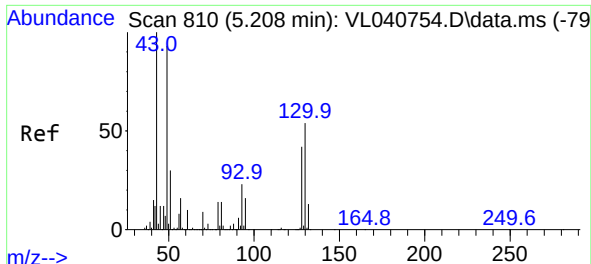
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

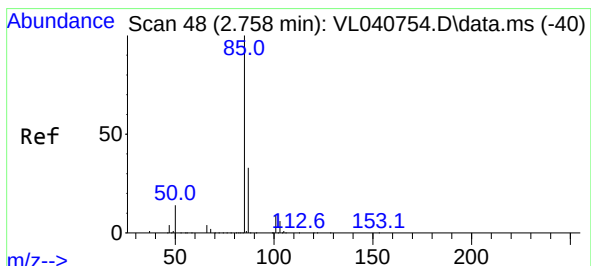
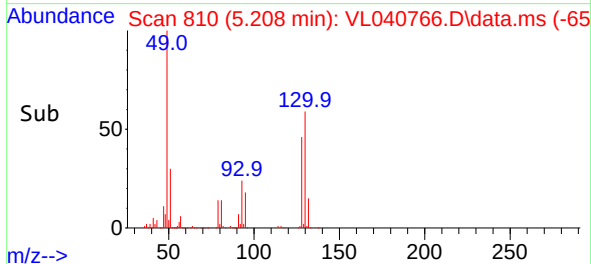
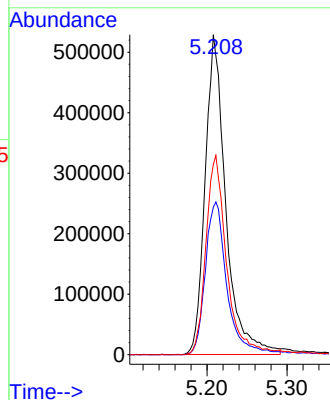
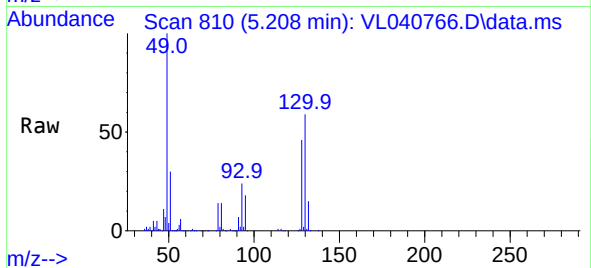




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

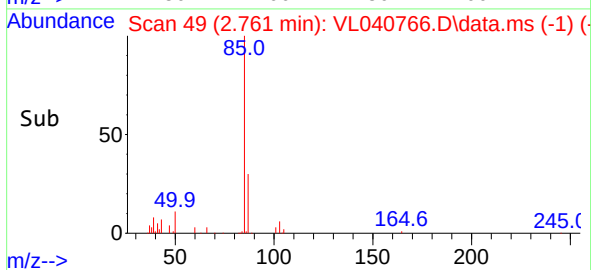
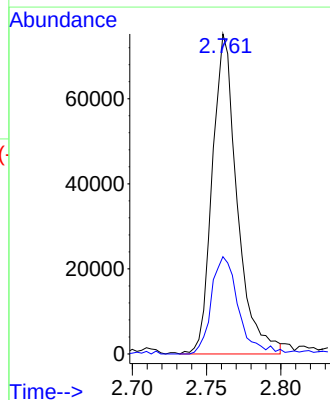
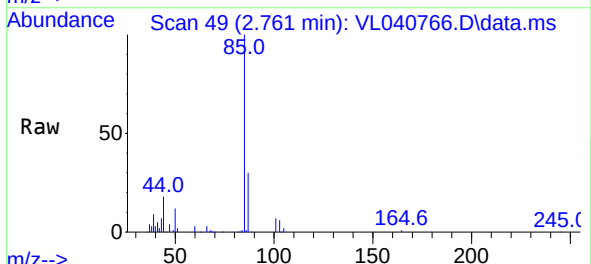
Instrument :
MSVOA_L
ClientSampleId :

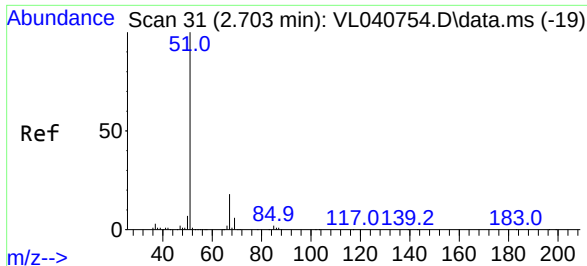
Tgt Ion: 49 Resp: 950762
Ion Ratio Lower Upper
49 100
128 51.6 23.9 71.7
130 64.0 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.524 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 85 Resp: 87760
Ion Ratio Lower Upper
85 100
87 30.4 26.0 39.0

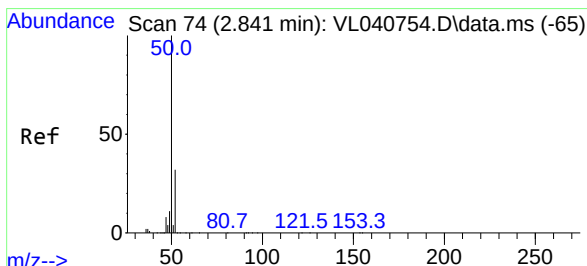
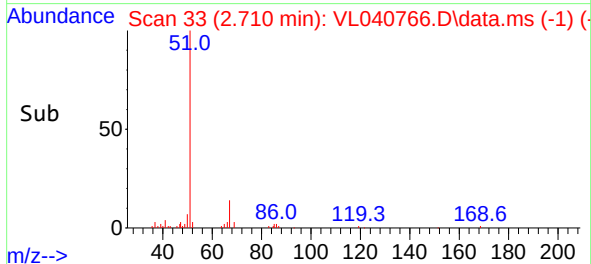
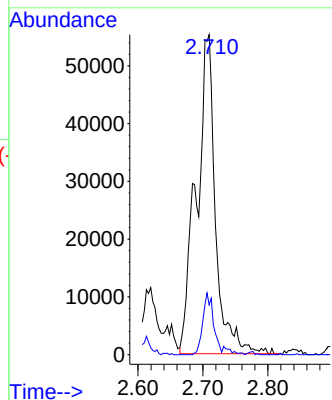
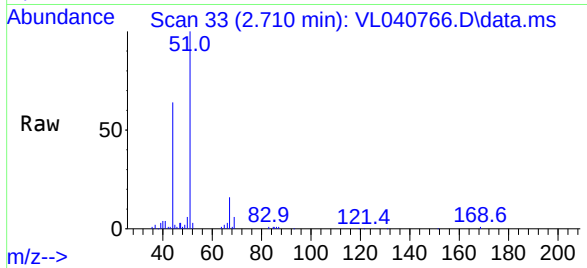




#3
Chlorodifluoromethane
Concen: 0.809 ppbv
RT: 2.710 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

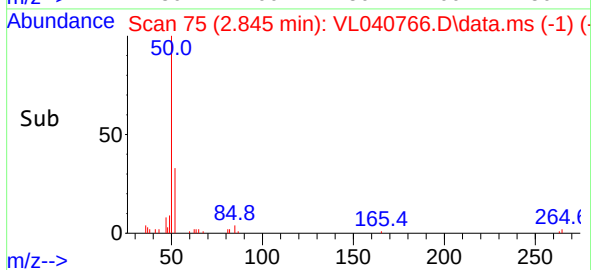
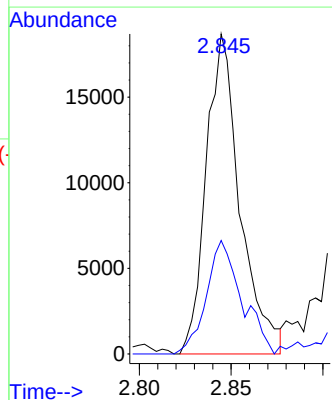
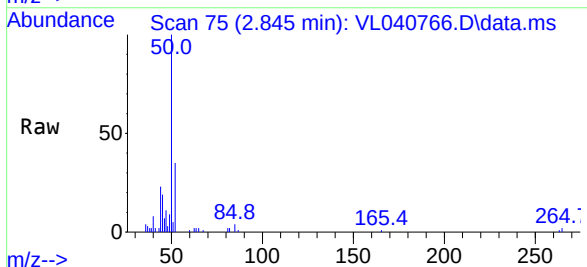
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 112987
Ion Ratio Lower Upper
51 100
67 12.1 13.8 20.6#

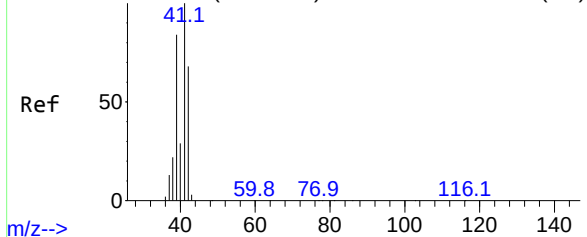


#4
Chloromethane
Concen: 0.434 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 50 Resp: 23939
Ion Ratio Lower Upper
50 100
52 34.3 25.3 37.9



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 3.361 ppbv

RT: 2.902 min Scan# 91

Delta R.T. 0.180 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Instrument :

MSVOA_L

ClientSampleId :

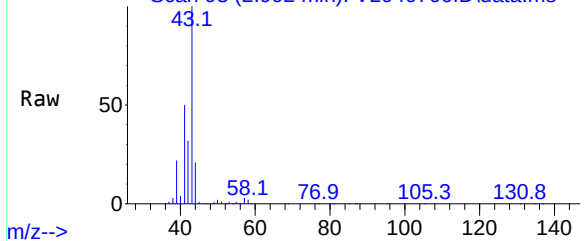
Tgt Ion: 41 Resp: 174416

Ion Ratio Lower Upper

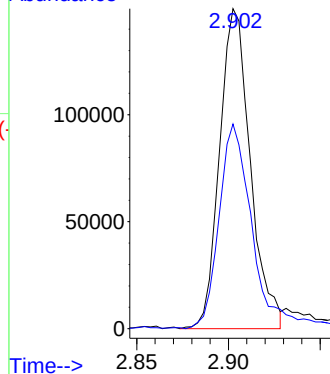
41 100

42 71.2 57.1 85.7

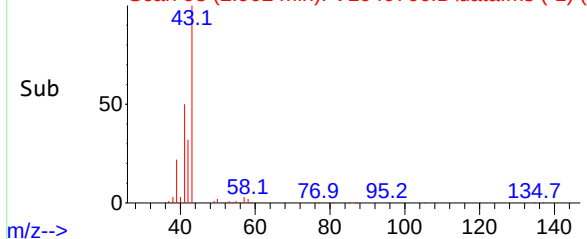
Abundance Scan 93 (2.902 min): VL040766.D\data.ms



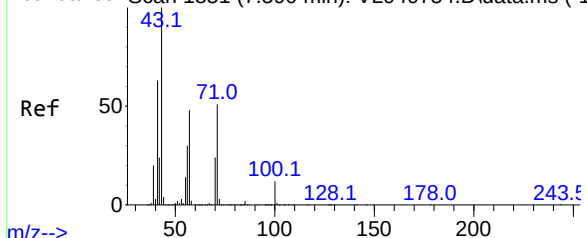
Abundance



Abundance Scan 93 (2.902 min): VL040766.D\data.ms (-1)



Abundance Scan 1551 (7.590 min): VL040754.D\data.ms (-1)



#10

Heptane

Concen: 0.152 ppbv

RT: 7.590 min Scan# 1551

Delta R.T. 0.000 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

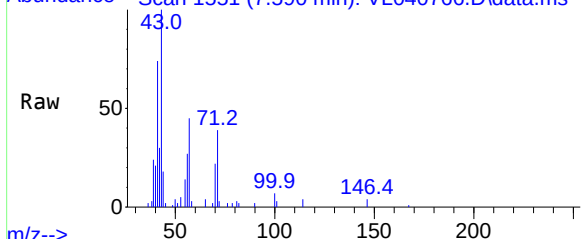
Tgt Ion: 43 Resp: 19864

Ion Ratio Lower Upper

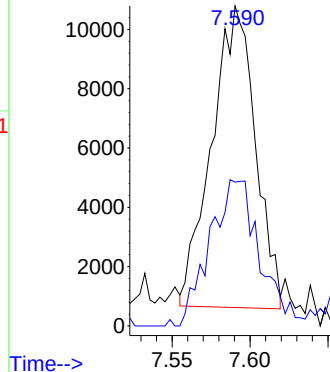
43 100

57 58.6 40.0 60.0

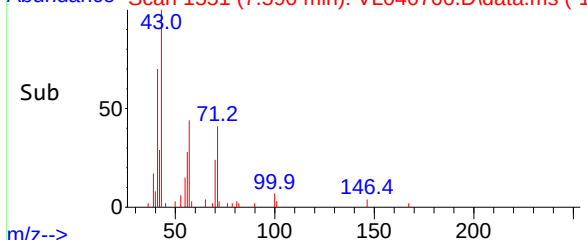
Abundance Scan 1551 (7.590 min): VL040766.D\data.ms

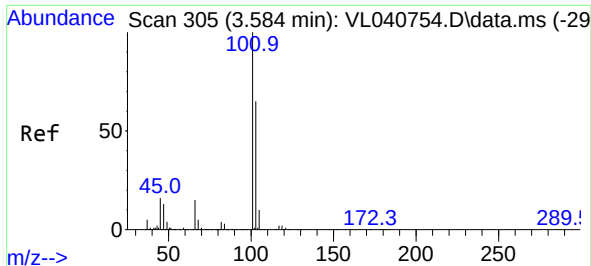


Abundance



Abundance Scan 1551 (7.590 min): VL040766.D\data.ms (-1)

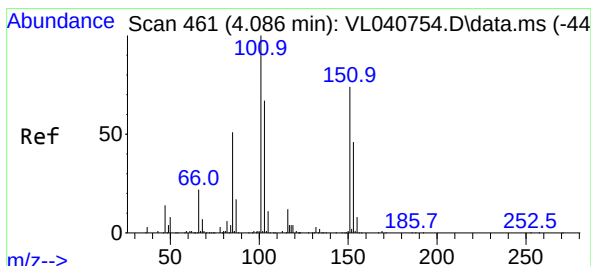
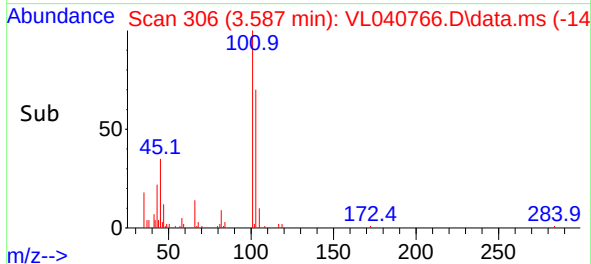
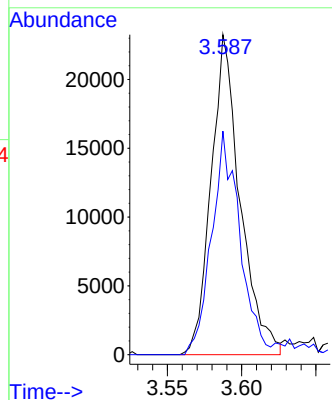
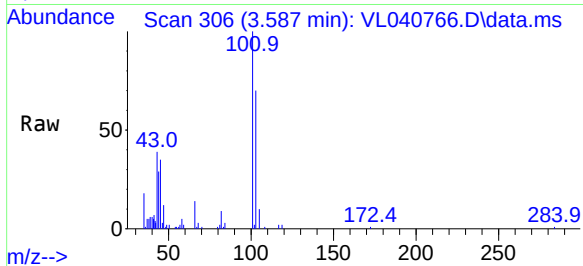




#11
Trichlorofluoromethane
Concen: 0.245 ppbv
RT: 3.587 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

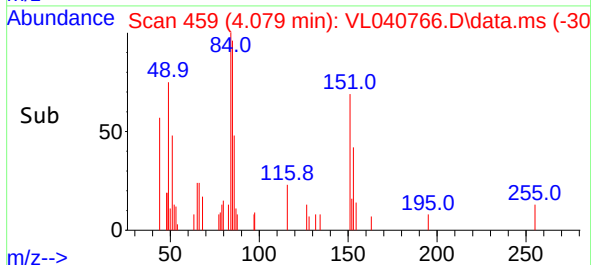
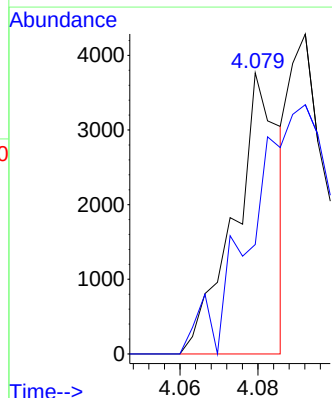
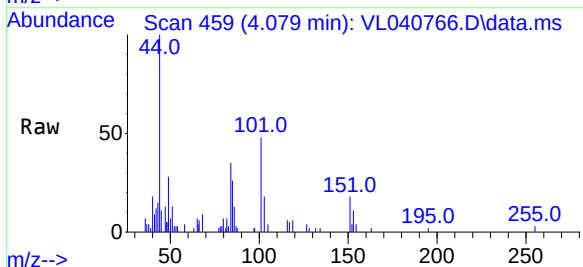
Instrument :
MSVOA_L
ClientSampleId :

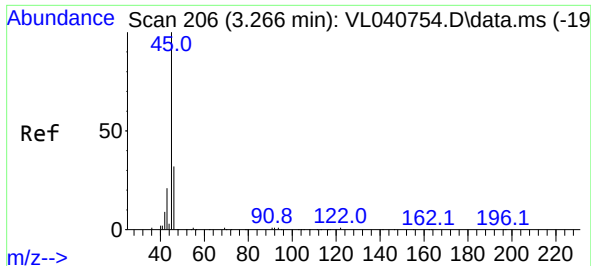
Tgt Ion:101 Resp: 31640
Ion Ratio Lower Upper
101 100
103 69.9 52.2 78.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.032 ppbv
RT: 4.079 min Scan# 459
Delta R.T. -0.006 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion:101 Resp: 2990
Ion Ratio Lower Upper
101 100
151 0.0 58.1 87.1#

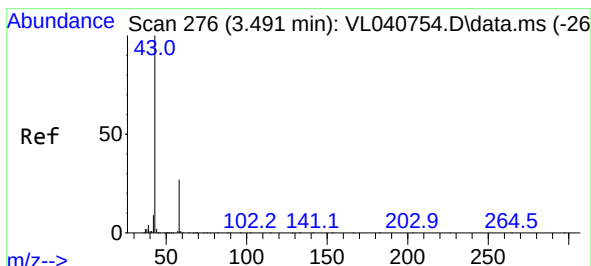
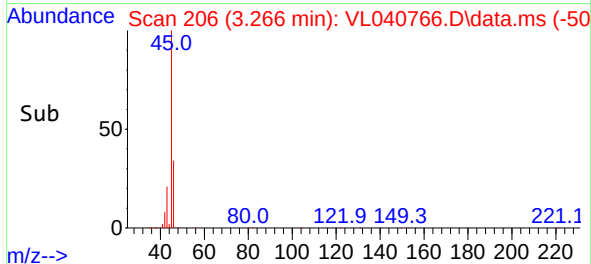
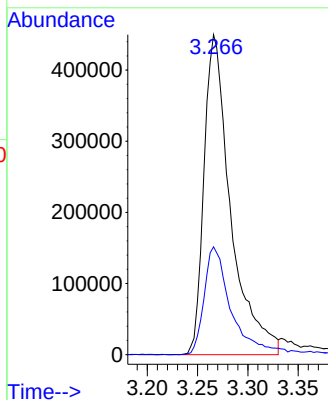
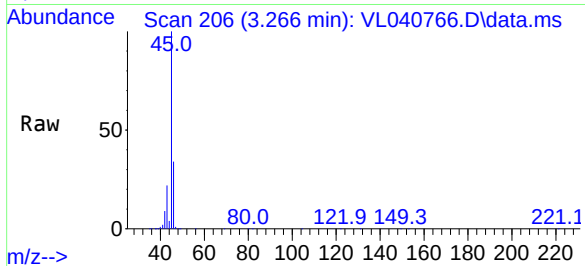




#13
Ethanol
Concen: 70.885 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

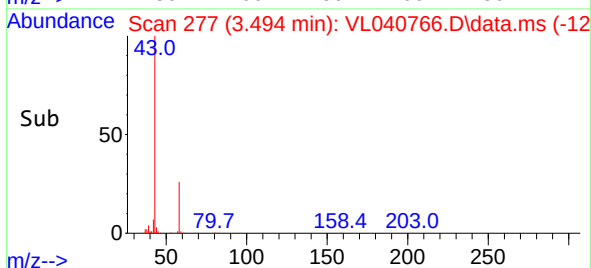
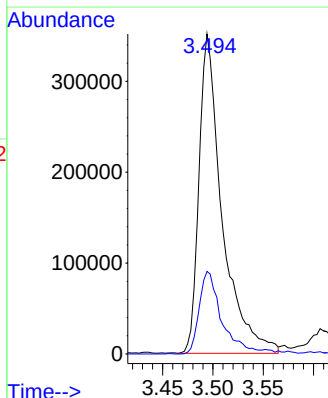
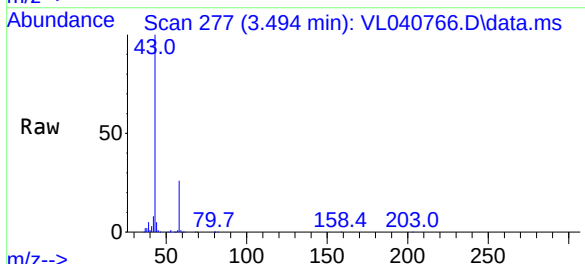
Instrument :
MSVOA_L
ClientSampleId :

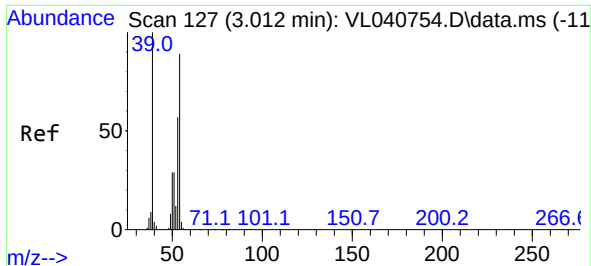
Tgt Ion: 45 Resp: 830441
Ion Ratio Lower Upper
45 100
46 36.0 14.6 58.2



#15
Acetone
Concen: 5.712 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 43 Resp: 561471
Ion Ratio Lower Upper
43 100
58 26.1 21.6 32.4





#16

1,3-Butadiene

Concen: 0.119 ppbv

RT: 2.999 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Instrument :

MSVOA_L

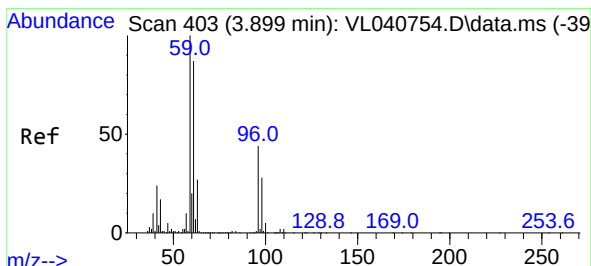
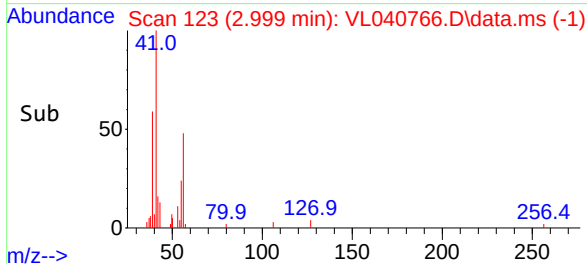
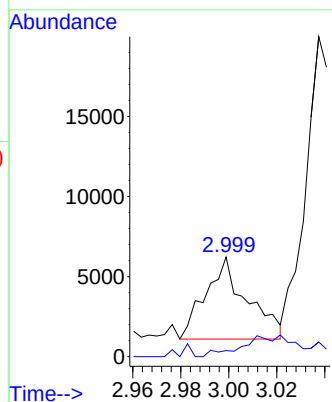
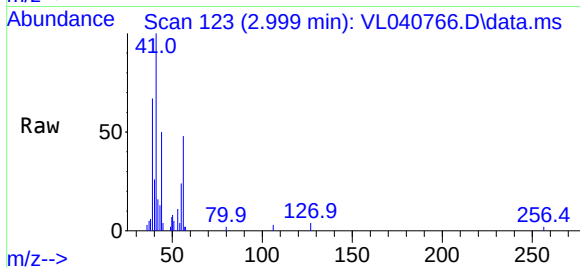
ClientSampleId :

Tgt Ion: 39 Resp: 6138

Ion Ratio Lower Upper

39 100

54 0.0 63.0 94.6#



#17

tert-Butyl alcohol

Concen: 0.094 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.026 min

Lab File: VL040766.D

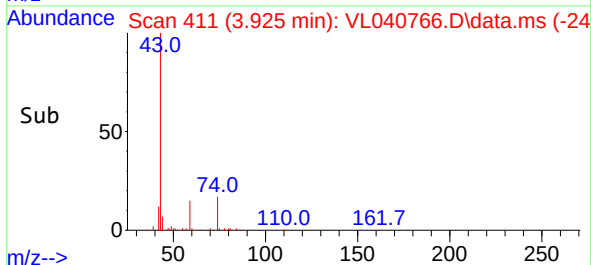
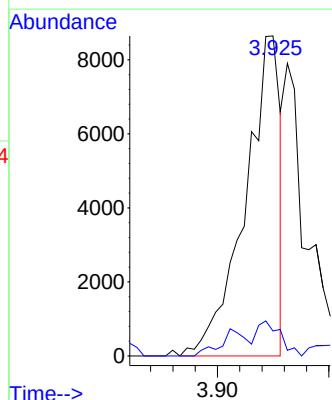
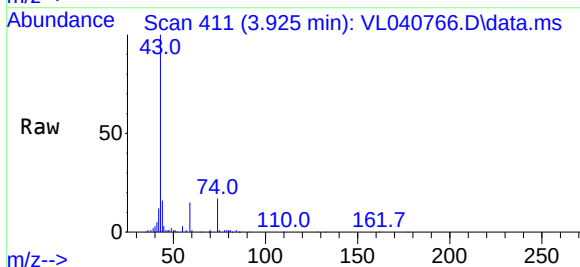
Acq: 11 Oct 2023 21:45

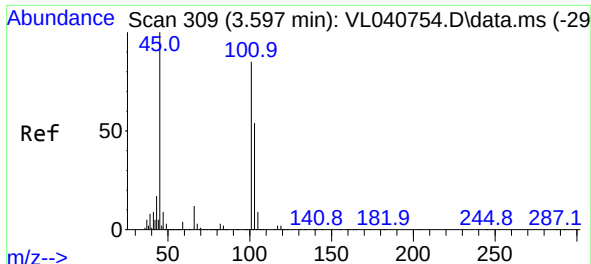
Tgt Ion: 59 Resp: 9472

Ion Ratio Lower Upper

59 100

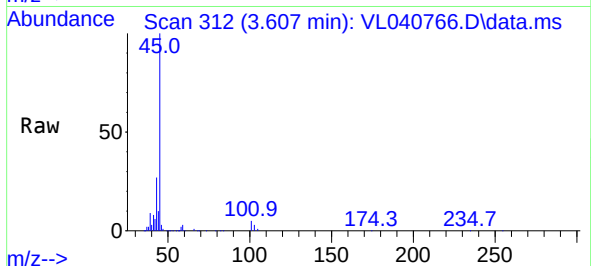
57 17.3 8.6 13.0#



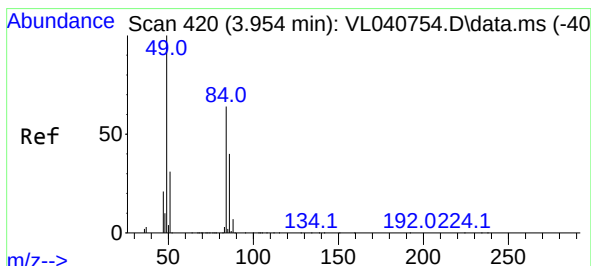
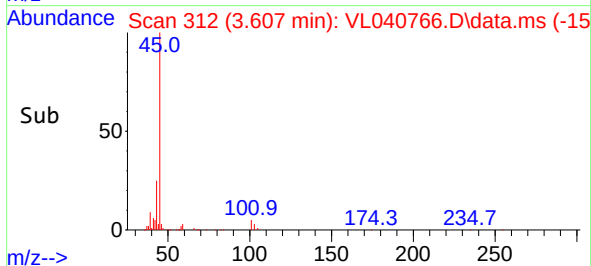
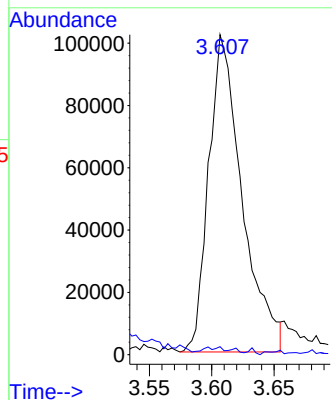


#19
Isopropyl Alcohol
Concen: 3.005 ppbv
RT: 3.607 min Scan# 312
Delta R.T. 0.010 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :

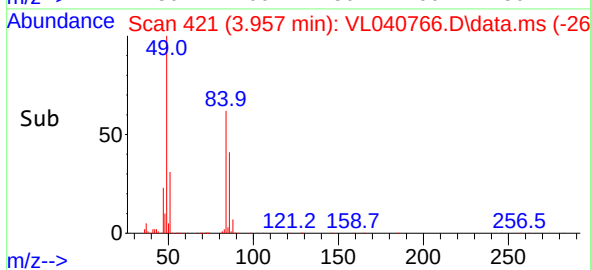
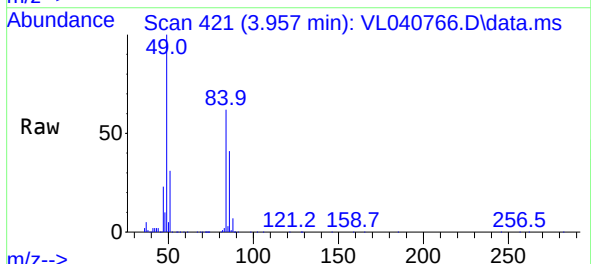
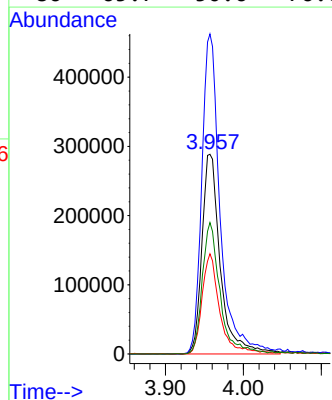


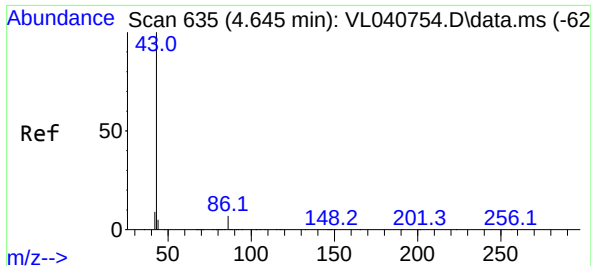
Tgt Ion: 45 Resp: 190114
Ion Ratio Lower Upper
45 100
58 77.2 30.3 45.5#



#20
Methylene Chloride
Concen: 11.598 ppbv
RT: 3.957 min Scan# 421
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

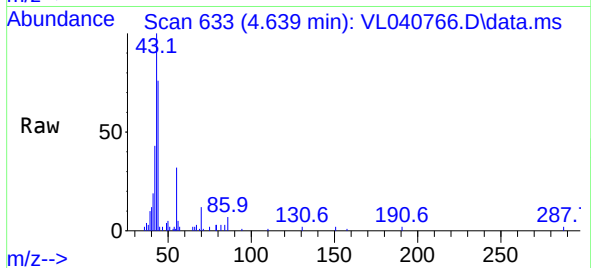
Tgt Ion: 84 Resp: 474850
Ion Ratio Lower Upper
84 100
49 160.2 125.6 188.4
51 50.1 38.9 58.3
86 65.7 50.6 76.0



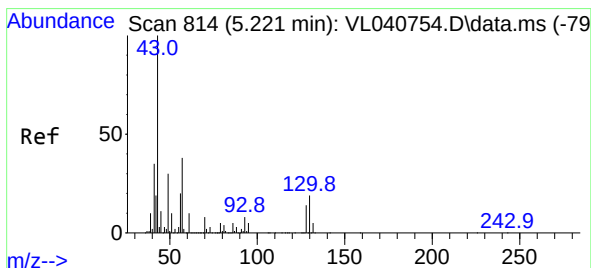
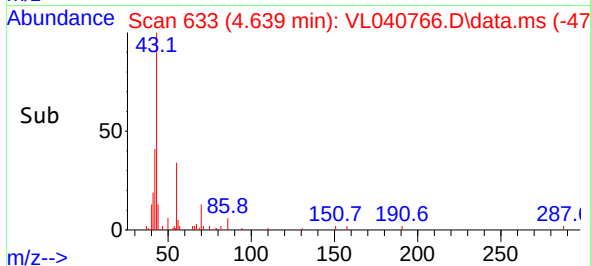
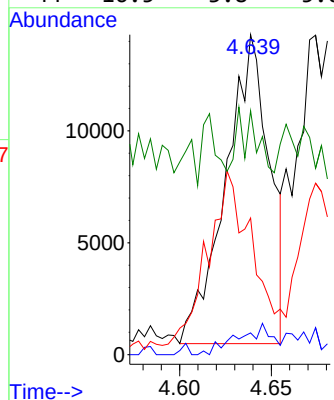


#23
 Vinyl Acetate
 Concen: 0.183 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040766.D
 Acq: 11 Oct 2023 21:45

Instrument :
 MSVOA_L
 ClientSampleId :

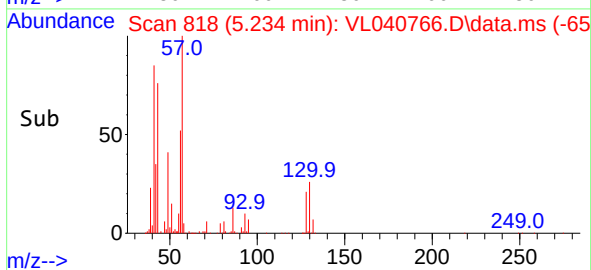
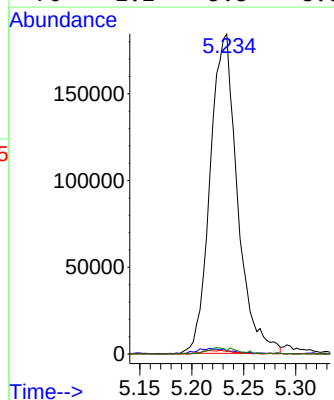
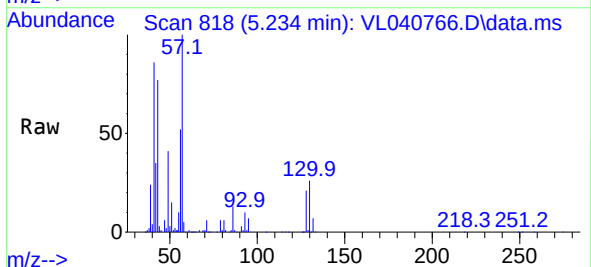


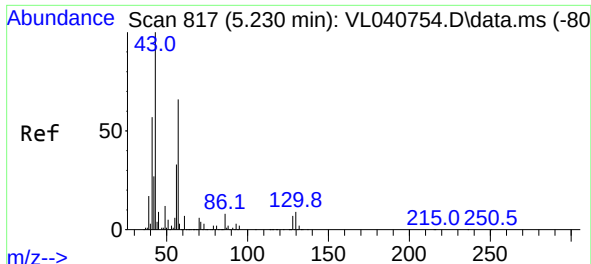
Tgt Ion: 43 Resp: 22936
 Ion Ratio Lower Upper
 43 100
 86 5.7 4.9 7.3
 42 35.7 7.8 11.6#
 44 16.5 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 1.562 ppbv
 RT: 5.234 min Scan# 818
 Delta R.T. 0.013 min
 Lab File: VL040766.D
 Acq: 11 Oct 2023 21:45

Tgt Ion: 43 Resp: 336404
 Ion Ratio Lower Upper
 43 100
 45 2.4 8.2 12.4#
 61 1.2 8.2 12.2#
 70 2.2 5.8 8.6#



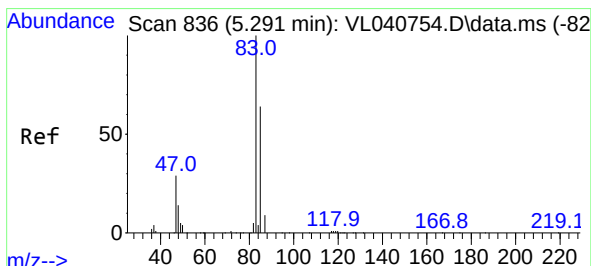
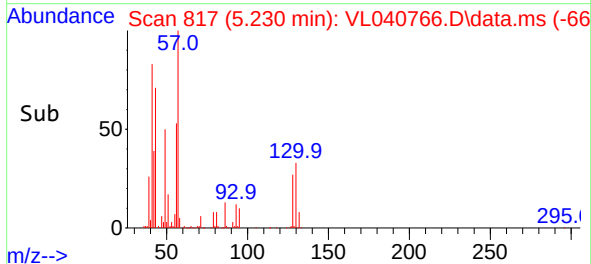
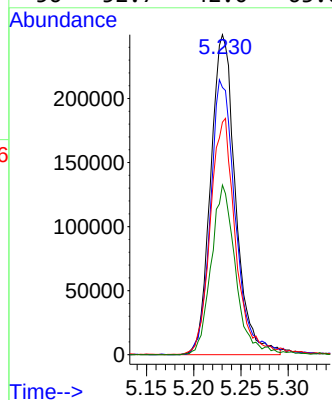
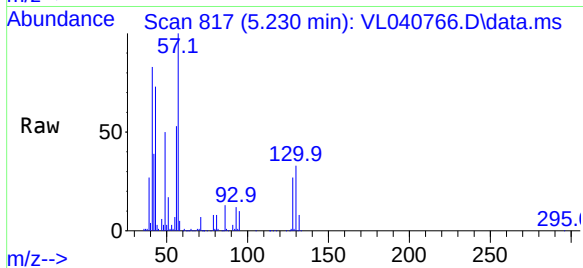


#26
Hexane
Concen: 4.639 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 456620

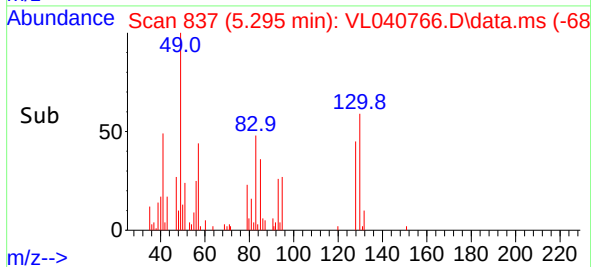
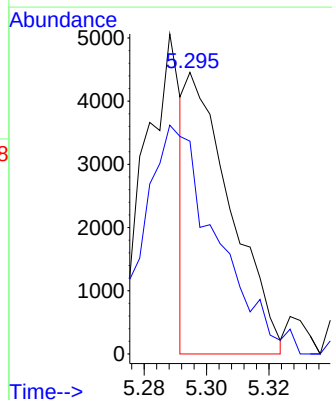
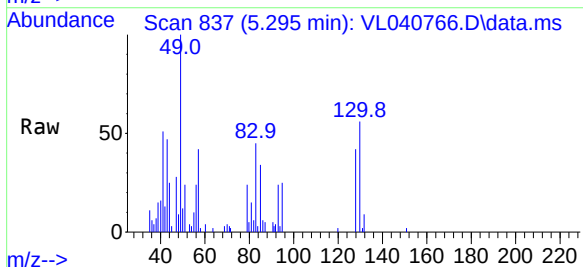
Ion	Ratio	Lower	Upper
57	100		
41	87.8	71.4	107.2
43	76.5	182.3	273.5#
56	52.7	42.0	63.0

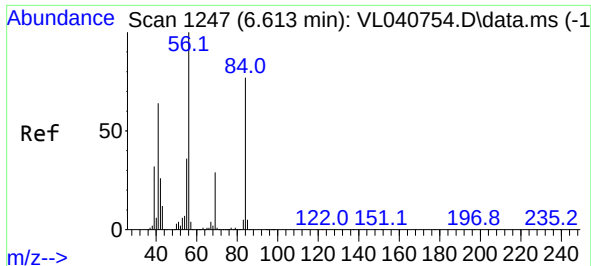


#29
Chloroform
Concen: 0.031 ppbv
RT: 5.295 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 83 Resp: 4435

Ion	Ratio	Lower	Upper
83	100		
85	74.3	51.3	76.9

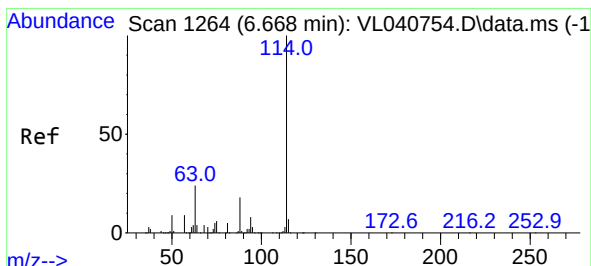
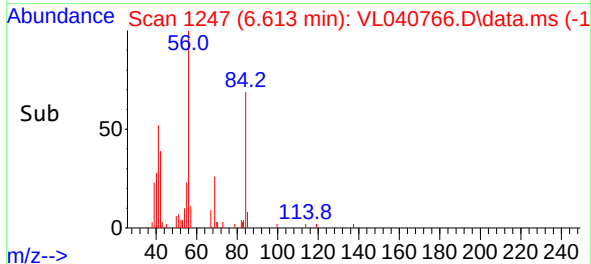
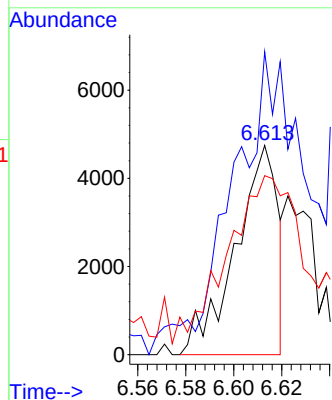
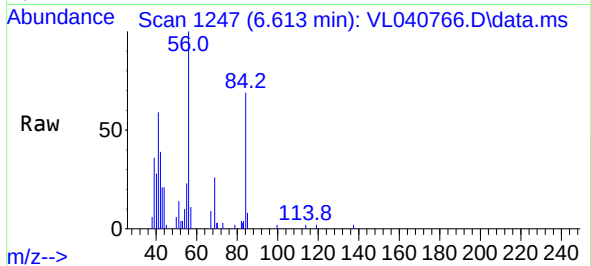




#30
Cyclohexane
Concen: 0.069 ppbv
RT: 6.613 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

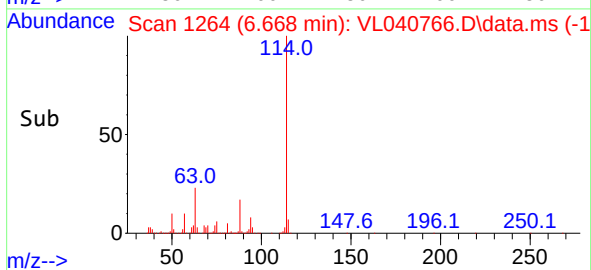
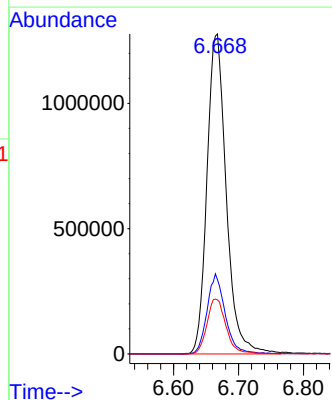
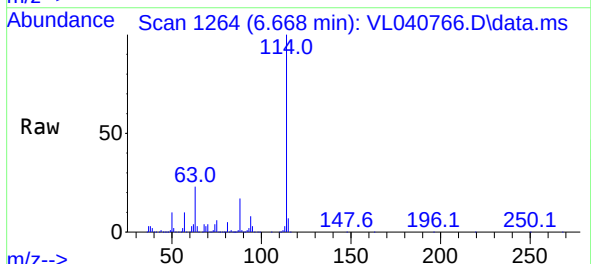
Instrument :
MSVOA_L
ClientSampleId :

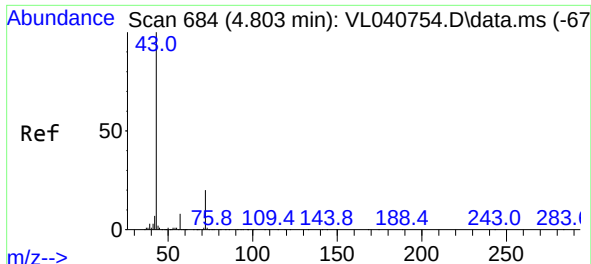
Tgt Ion: 84 Resp: 5786
Ion Ratio Lower Upper
84 100
56 225.0 110.3 165.5#
41 186.0 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 114 Resp: 2638121
Ion Ratio Lower Upper
114 100
63 23.7 19.8 29.6
88 17.1 14.2 21.2





#34

2-Butanone

Concen: 0.193 ppbv

RT: 4.806 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Instrument :

MSVOA_L

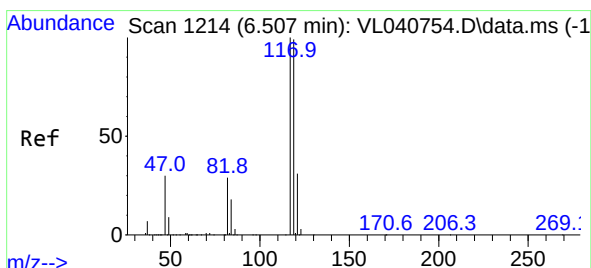
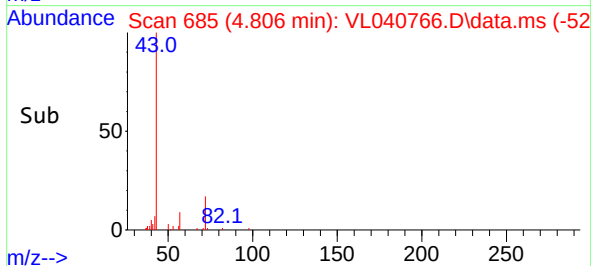
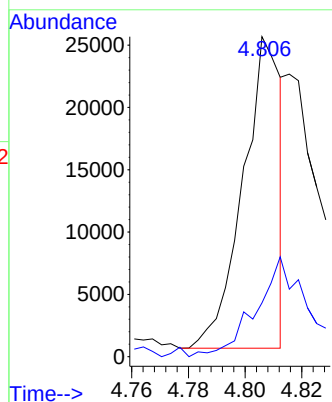
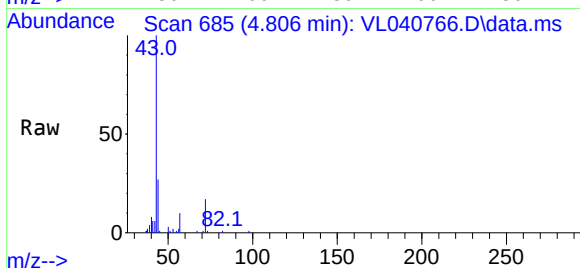
ClientSampleId :

Tgt Ion: 43 Resp: 23088

Ion Ratio Lower Upper

43 100

72 0.0 16.8 25.2#



#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 6.513 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

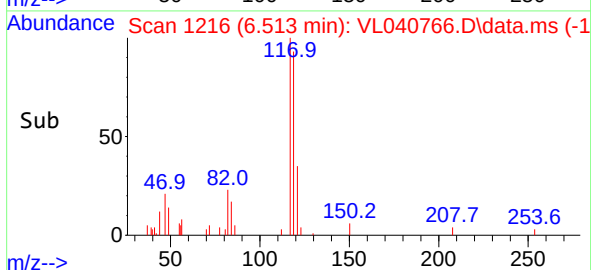
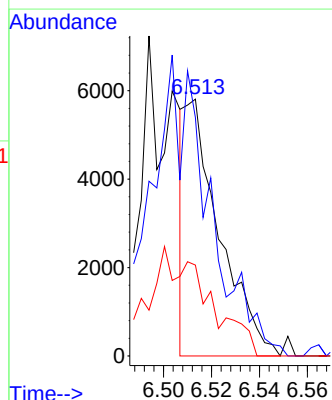
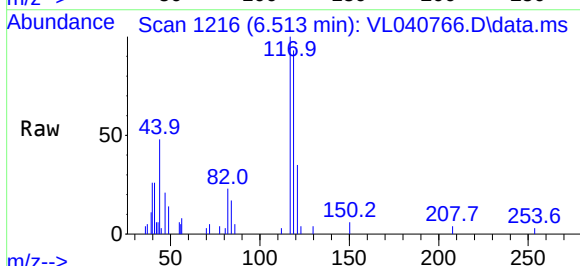
Tgt Ion: 117 Resp: 5791

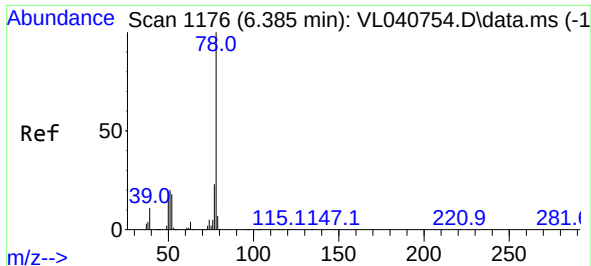
Ion Ratio Lower Upper

117 100

119 88.9 79.4 119.0

121 35.4 25.0 37.4

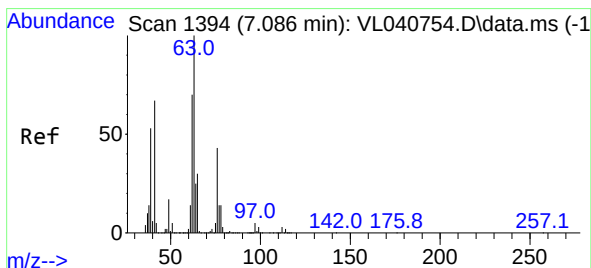
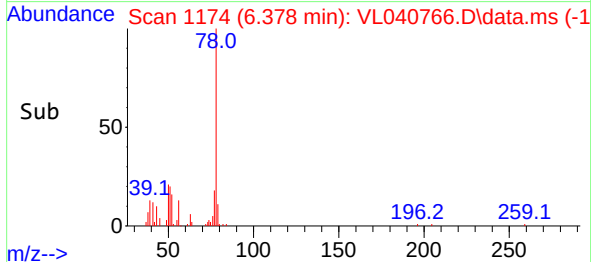
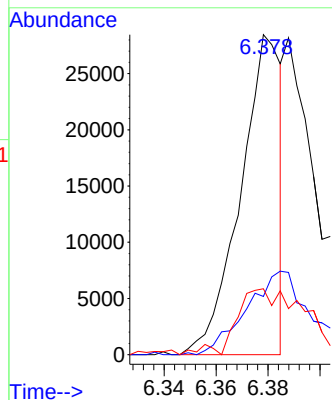
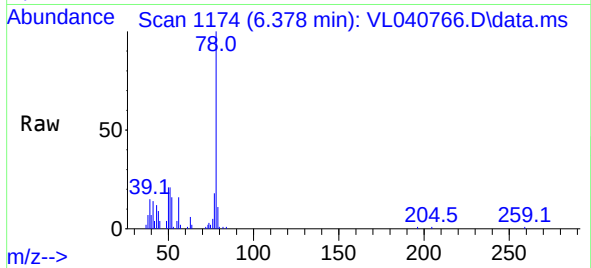




#36
Benzene
Concen: 0.151 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

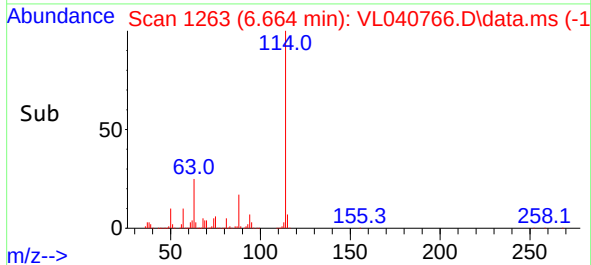
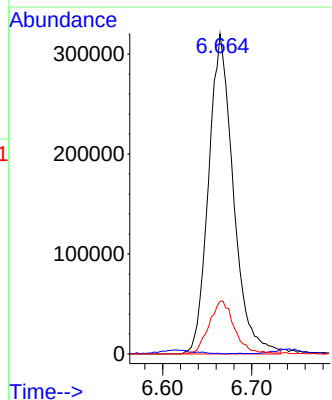
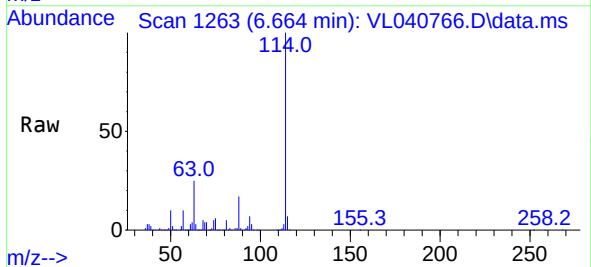
Instrument :
MSVOA_L
ClientSampleId :

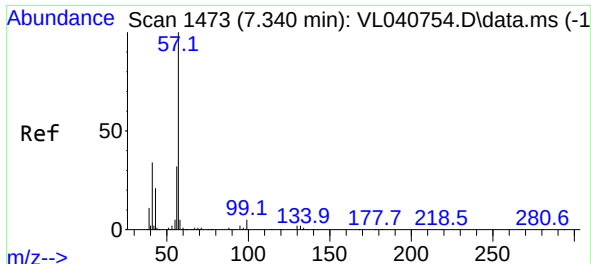
Tgt Ion: 78 Resp: 30727
Ion Ratio Lower Upper
78 100
77 18.4 18.4 27.6
50 20.8 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.797 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.421 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 63 Resp: 618103
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 16.4 55.7 83.5#





#44

2,2,4-Trimethylpentane

Concen: 0.060 ppbv

RT: 7.336 min Scan# 14

Delta R.T. -0.003 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Instrument :

MSVOA_L

ClientSampleId :

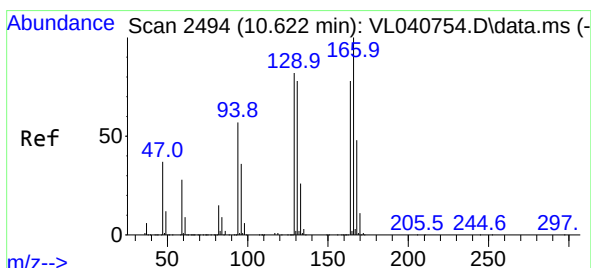
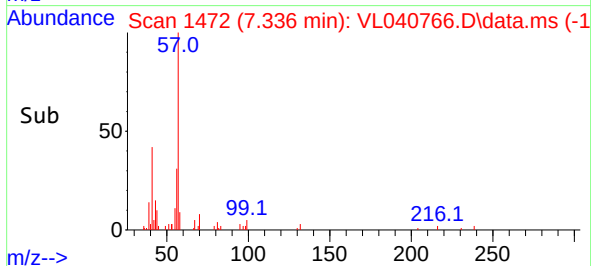
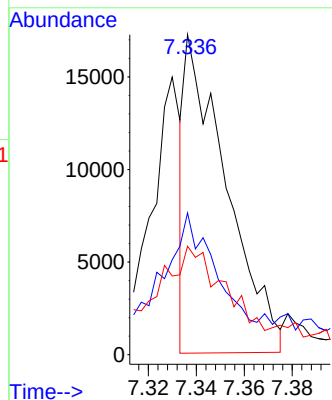
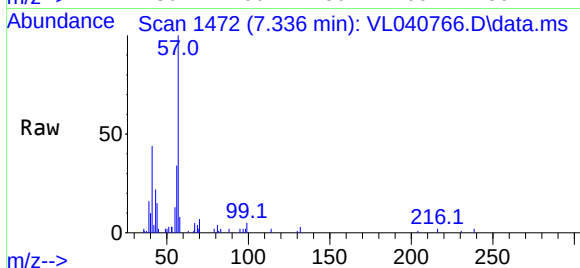
Tgt Ion: 57 Resp: 20603

Ion Ratio Lower Upper

57 100

41 88.0 27.4 41.0#

56 72.5 25.0 37.6#



#52

Tetrachloroethene

Concen: 0.033 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. -0.003 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Tgt Ion: 164 Resp: 2696

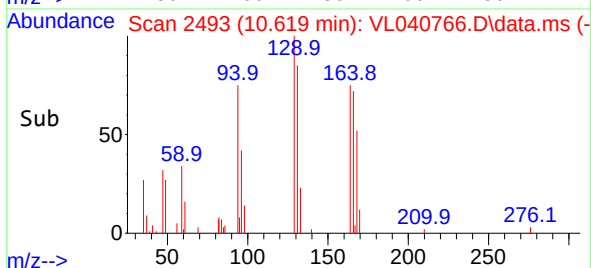
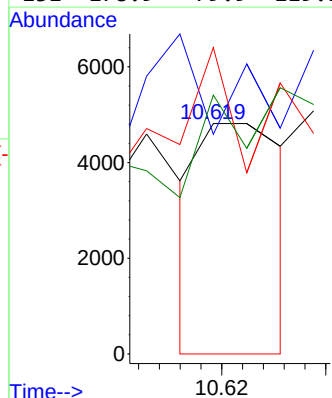
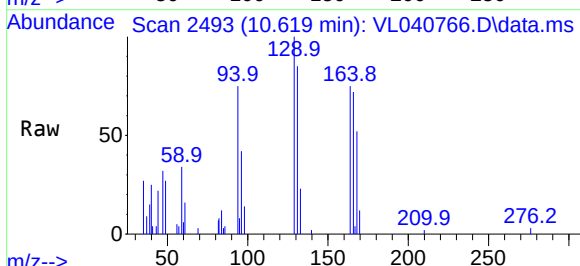
Ion Ratio Lower Upper

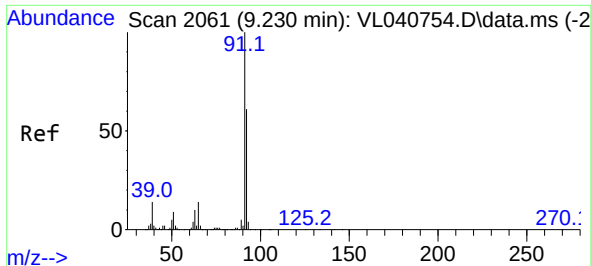
164 100

166 0.0 102.4 153.6#

129 169.1 84.2 126.4#

131 178.9 79.9 119.9#

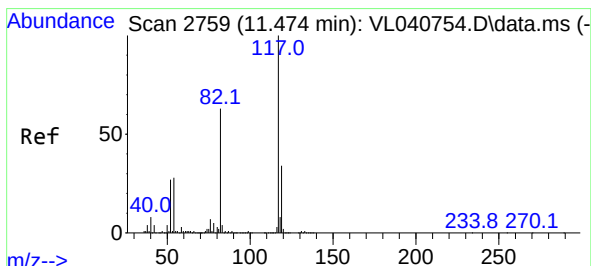
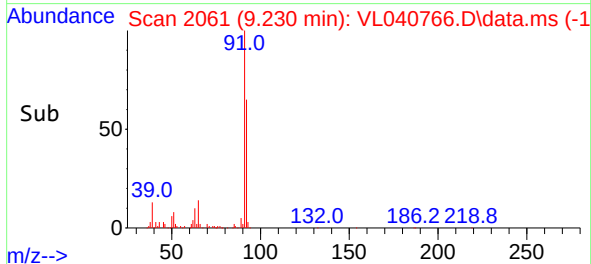
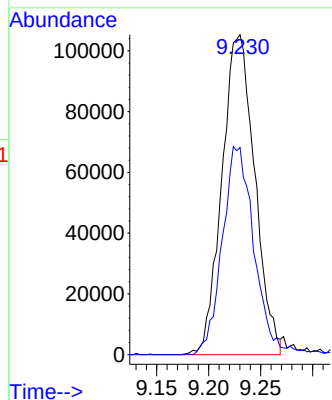
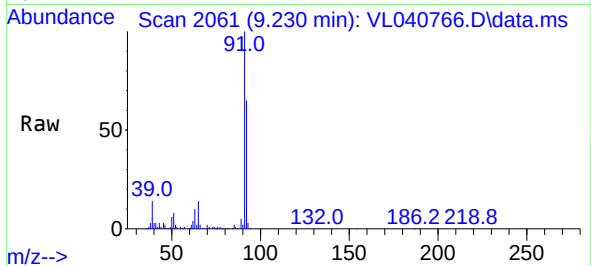




#53
Toluene
Concen: 0.958 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

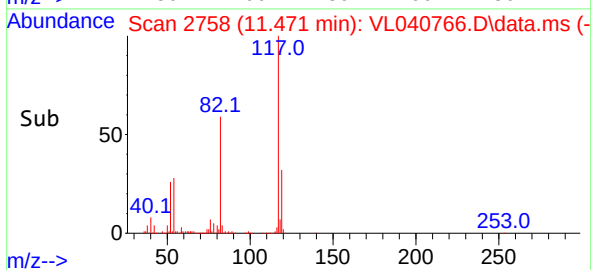
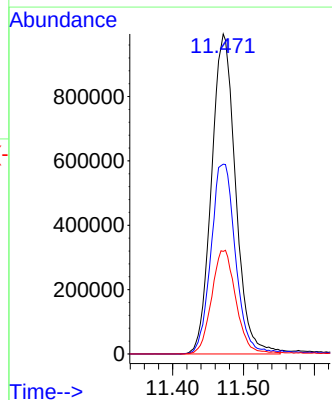
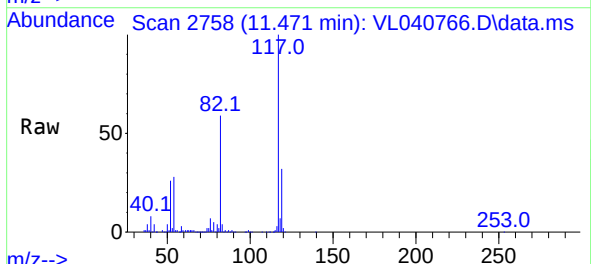
Instrument :
MSVOA_L
ClientSampleId :

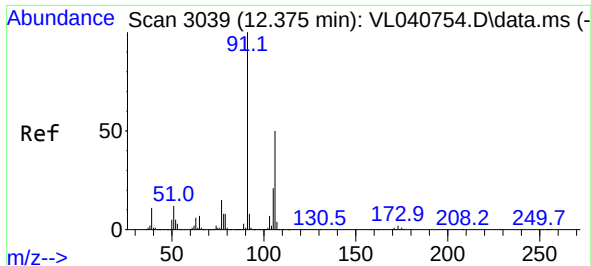
Tgt Ion: 91 Resp: 231431
Ion Ratio Lower Upper
91 100
92 64.0 50.2 75.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Tgt Ion: 117 Resp: 2345252
Ion Ratio Lower Upper
117 100
82 61.6 46.6 70.0
119 33.2 26.0 39.0





#59

m/p-Xylene

Concen: 0.058 ppbv

RT: 12.378 min Scan# 3039

Delta R.T. 0.003 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

Instrument :

MSVOA_L

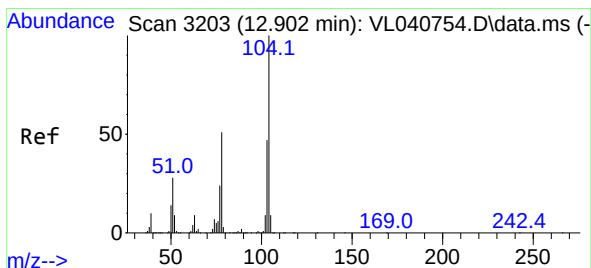
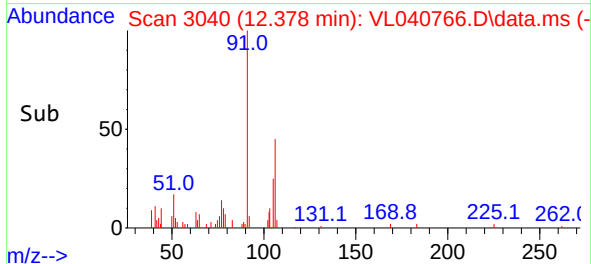
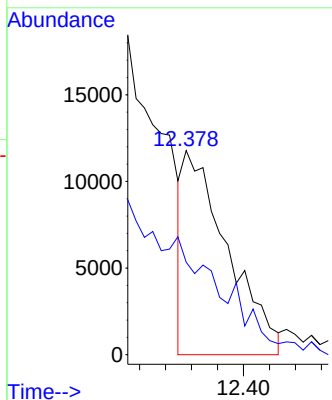
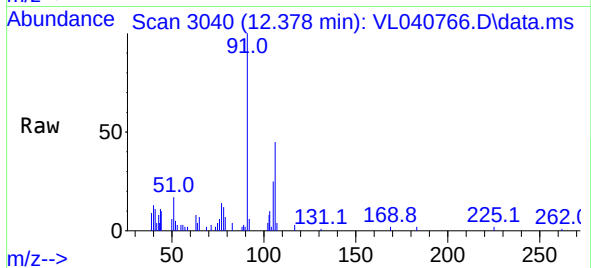
ClientSampleId :

Tgt Ion: 91 Resp: 13994

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#



#61

Styrene

Concen: 0.164 ppbv

RT: 12.902 min Scan# 3203

Delta R.T. 0.000 min

Lab File: VL040766.D

Acq: 11 Oct 2023 21:45

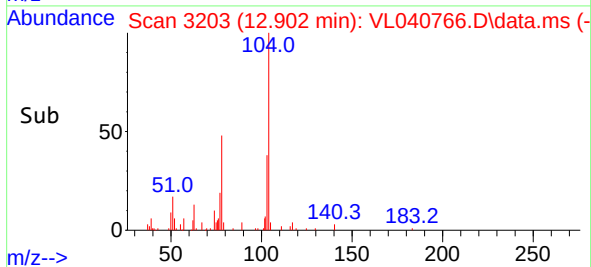
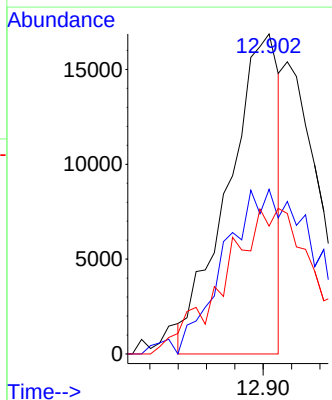
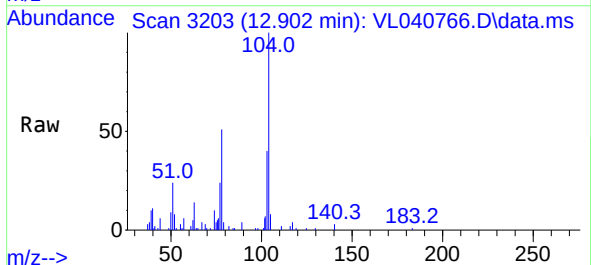
Tgt Ion: 104 Resp: 20997

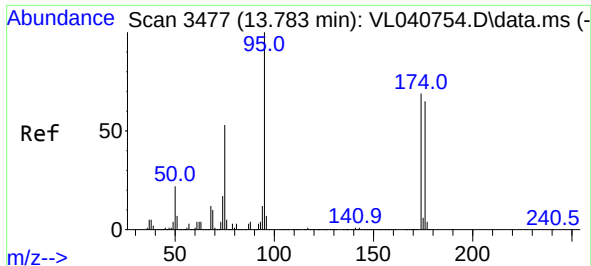
Ion Ratio Lower Upper

104 100

78 96.2 39.8 59.6#

103 0.0 37.5 56.3#

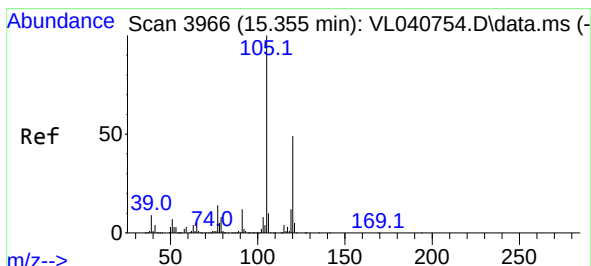
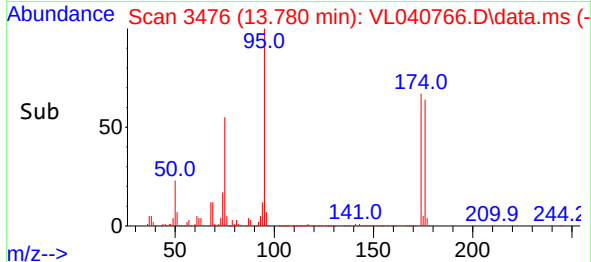
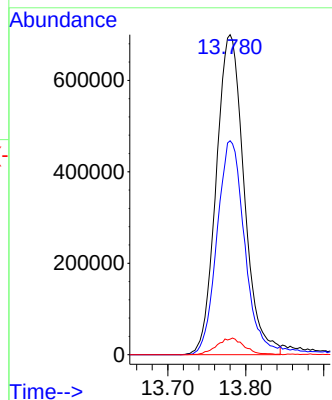
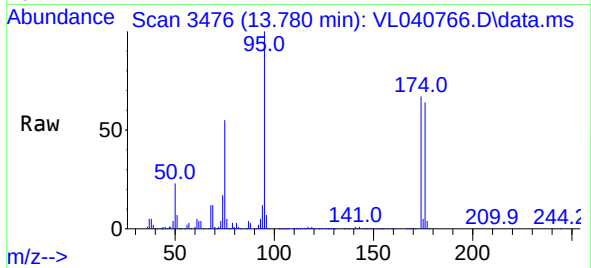




#68
1-Bromo-4-Fluorobenzene
Concen: 10.078 ppbv
RT: 13.780 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

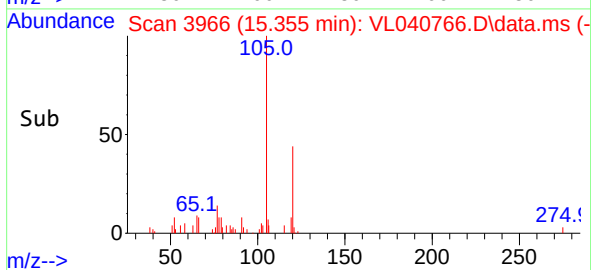
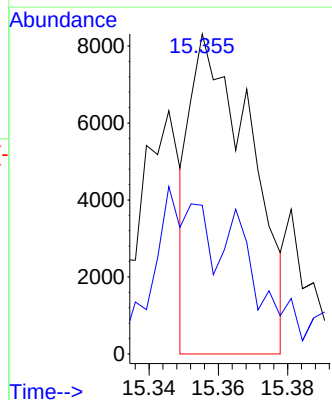
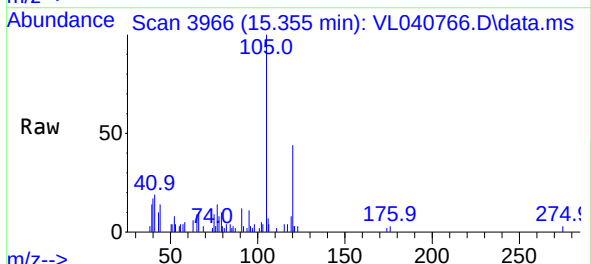
Instrument :
MSVOA_L
ClientSampleId :

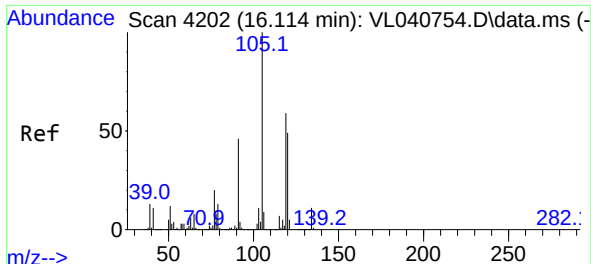
Tgt Ion: 95 Resp: 1739183
Ion Ratio Lower Upper
95 100
174 69.3 54.7 82.1
175 5.1 4.2 6.4



#73
1,3,5-Trimethylbenzene
Concen: 0.042 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

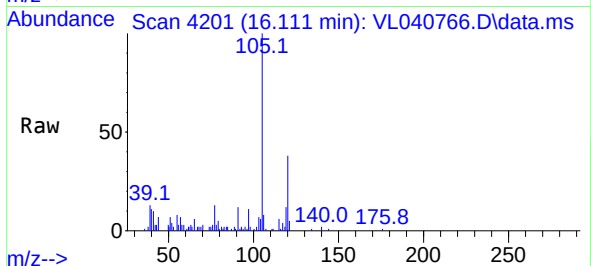
Tgt Ion: 105 Resp: 10063
Ion Ratio Lower Upper
105 100
120 52.4 39.4 59.2



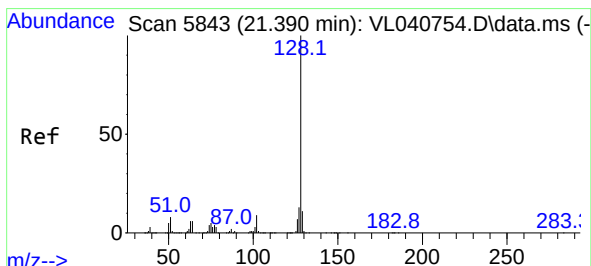
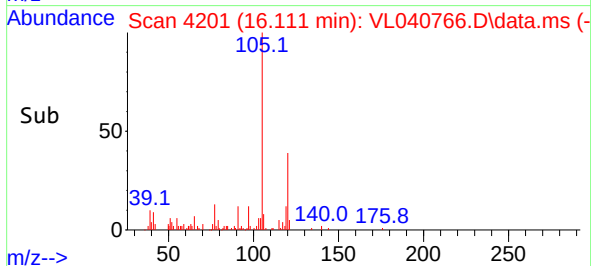
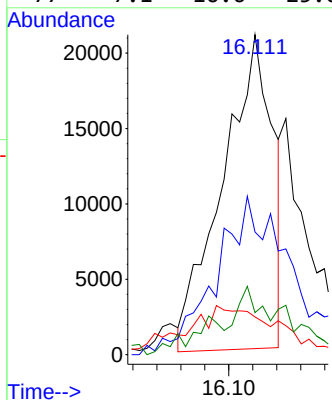


#74
1,2,4-Trimethylbenzene
Concen: 0.116 ppbv
RT: 16.111 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :

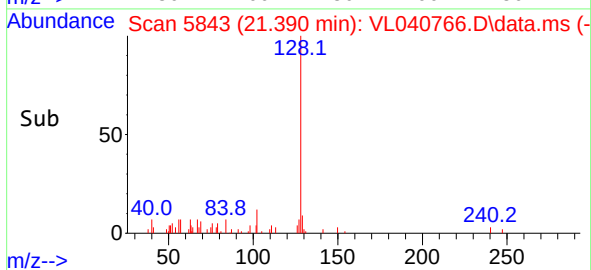
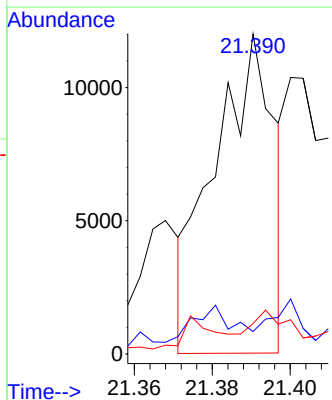
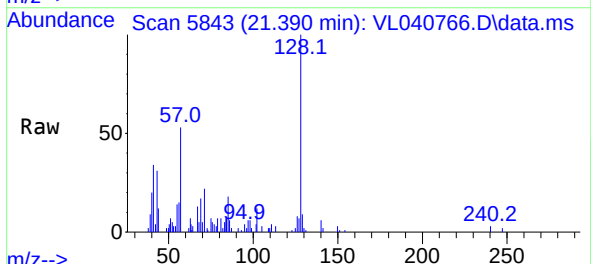


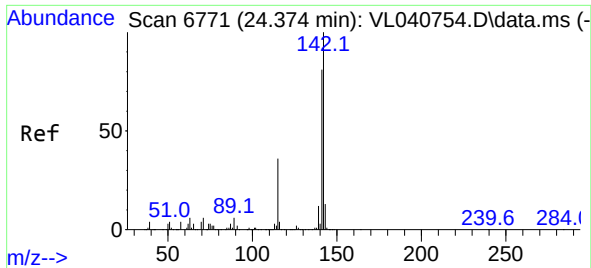
Tgt Ion:105 Resp: 30328
Ion Ratio Lower Upper
105 100
120 36.4 39.4 59.2#
91 6.1 38.6 58.0#
77 7.1 16.6 25.0#



#79
Naphthalene
Concen: 0.060 ppbv
RT: 21.390 min Scan# 5843
Delta R.T. 0.000 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

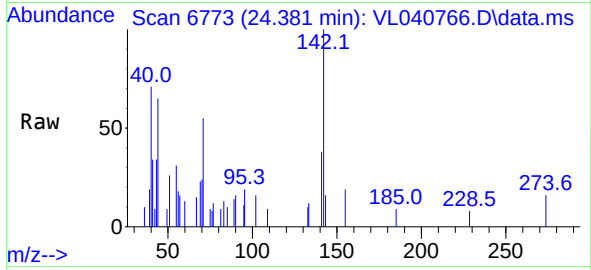
Tgt Ion:128 Resp: 12747
Ion Ratio Lower Upper
128 100
127 2.6 10.6 15.8#
129 10.9 9.0 13.4





#80
Naphthalene, 2-methyl-
Concen: 0.072 ppbv
RT: 24.381 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040766.D
Acq: 11 Oct 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:	142	Resp:	4287
Ion	Ratio	Lower	Upper
142	100		
141	71.8	66.3	99.5
115	24.4	30.0	45.0

