

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040814.D
 Acq On : 8 Nov 2023 17:18
 Operator : SY/MD
 Sample : 05290-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Nov 09 00:31:30 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 Nov 09 00:25:02 2023
 Response via : Initial Calibration

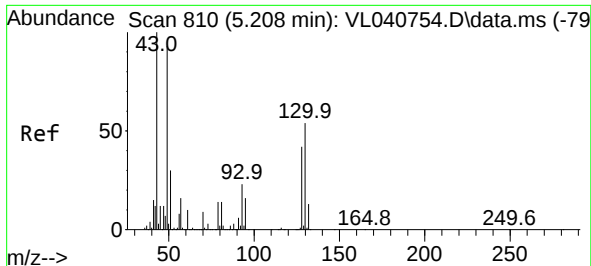
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	1007500	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2602377	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2055351	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1484356	9.815	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.768	85	105002	0.592	ppbv	97
3) Chlorodifluoromethane	2.690	51	673247	4.547	ppbv #	64
4) Chloromethane	2.848	50	32843	0.562	ppbv #	81
7) Chloroethane	2.809	64	25607	1.302	ppbv #	43
9) Propene	2.906	41	125528	2.283	ppbv	94
10) Heptane	7.578	43	26166	0.189	ppbv	93
11) Trichlorofluoromethane	3.594	101	40587	0.296	ppbv	98
12) 1,1,2-Trichlorotri fluo...	4.099	101	8872	0.091	ppbv	99
13) Ethanol	3.272	45	269018	21.670	ppbv	100
15) Acetone	3.497	43	800695	7.687	ppbv	91
16) 1,3-Butadiene	3.005	39	3034	0.056	ppbv #	1
17) tert-Butyl alcohol	3.919	59	11897	0.111	ppbv #	71
19) Isopropyl Alcohol	3.610	45	372740	5.559	ppbv #	44
20) Methylene Chloride	3.960	84	396855	9.147	ppbv	96
21) Allyl Chloride	3.964	41	16882	0.246	ppbv #	51
23) Vinyl Acetate	4.645	43	6321	0.048	ppbv #	4
25) Ethyl Acetate	5.227	43	315293	1.382	ppbv #	82
26) Hexane	5.227	57	392065	3.759	ppbv #	44
27) Carbon Disulfide	4.153	76	6007	0.052	ppbv #	19
29) Chloroform	5.285	83	9418	0.062	ppbv	99
30) Cyclohexane	6.616	84	11186	0.126	ppbv #	79
34) 2-Butanone	4.809	43	79162	0.672	ppbv	98
35) Carbon Tetrachloride	6.497	117	8781	0.060	ppbv #	77
36) Benzene	6.378	78	88725	0.443	ppbv	95
39) 1,2-Dichloropropane	6.658	63	634854	8.118	ppbv #	27
44) 2,2,4-Trimethylpentane	7.330	57	48044	0.142	ppbv #	42
53) Toluene	9.214	91	124000	0.521	ppbv #	19
58) Ethyl Benzene	12.086	91	92883	0.359	ppbv	88
59) m/p-Xylene	12.368	91	54880	0.258	ppbv #	30
60) o-Xylene	13.047	91	103666	0.511	ppbv	100
61) Styrene	12.896	104	15929	0.142	ppbv #	29
72) 4-Ethyltoluene	15.191	105	10820	0.046	ppbv #	44
73) 1,3,5-Trimethylbenzene	15.343	105	6335	0.030	ppbv #	43
74) 1,2,4-Trimethylbenzene	16.105	105	49248	0.215	ppbv #	75

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

Quant Time: Nov 09 00:31:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Nov 09 00:25:02 2023
Response via : Initial Calibration

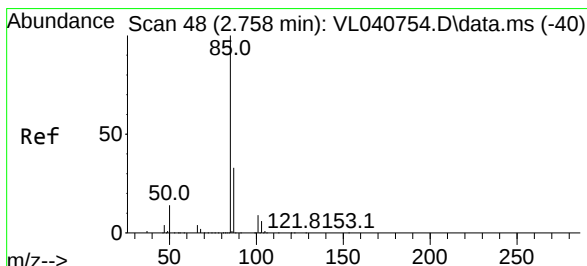
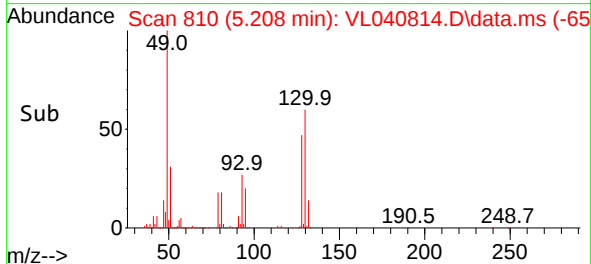
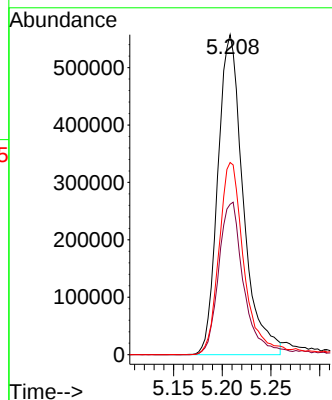
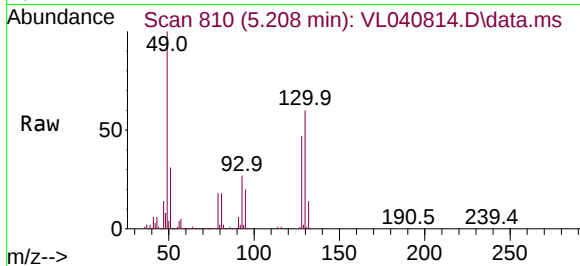




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

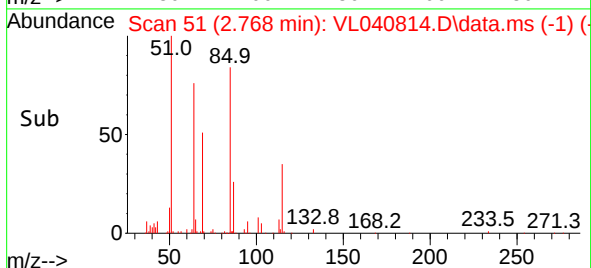
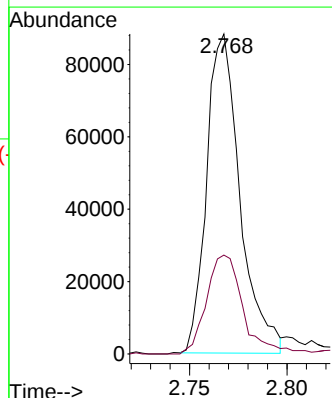
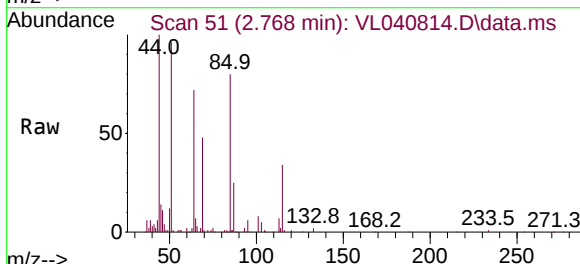
Instrument :
MSVOA_L
ClientSampleId :
IA1

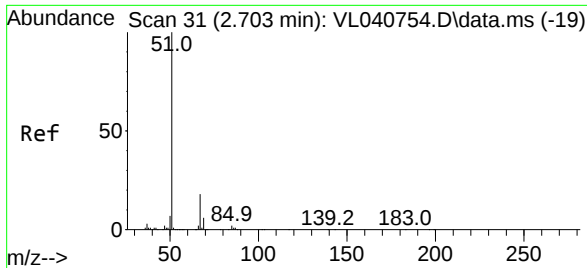
Tgt Ion: 49 Resp: 1007500
Ion Ratio Lower Upper
49 100
128 48.5 23.9 71.7
130 62.2 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.592 ppbv
RT: 2.768 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 85 Resp: 105002
Ion Ratio Lower Upper
85 100
87 31.0 26.0 39.0

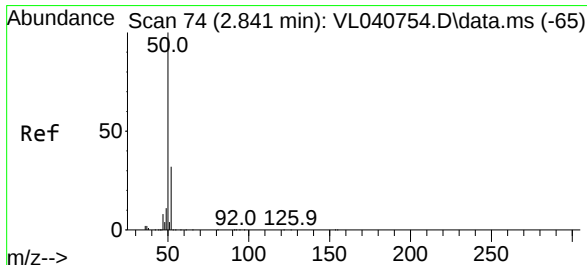
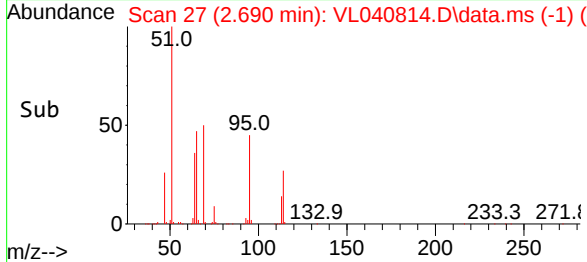
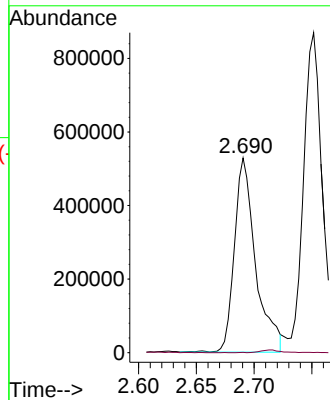
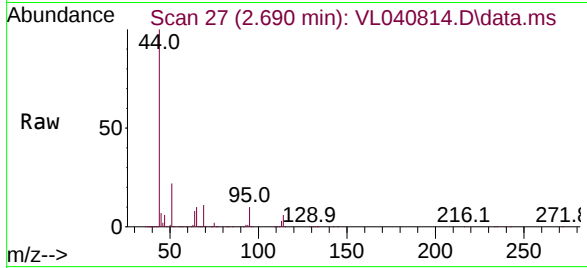




#3
Chlorodifluoromethane
Concen: 4.547 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

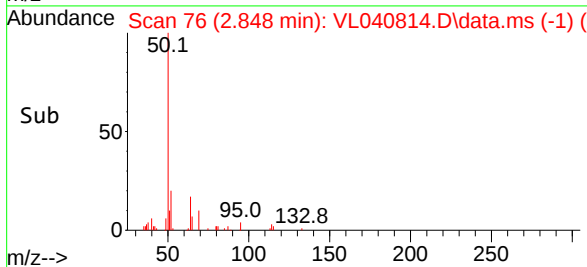
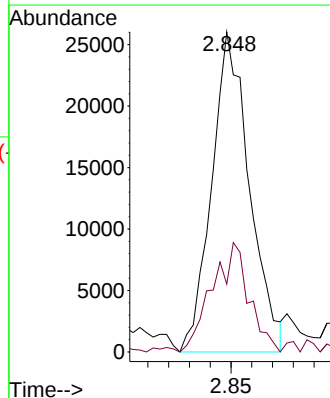
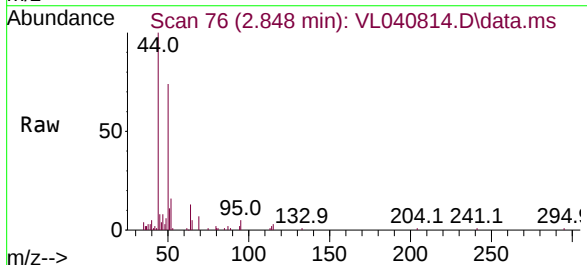
Instrument :
MSVOA_L
ClientSampleId :
IA1

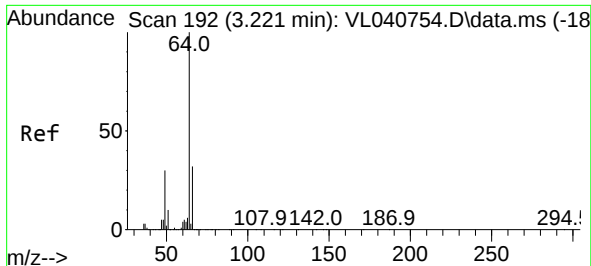
Tgt Ion: 51 Resp: 673247
Ion Ratio Lower Upper
51 100
67 1.5 13.8 20.6#



#4
Chloromethane
Concen: 0.562 ppbv
RT: 2.848 min Scan# 76
Delta R.T. -0.006 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 50 Resp: 32843
Ion Ratio Lower Upper
50 100
52 21.2 25.3 37.9#

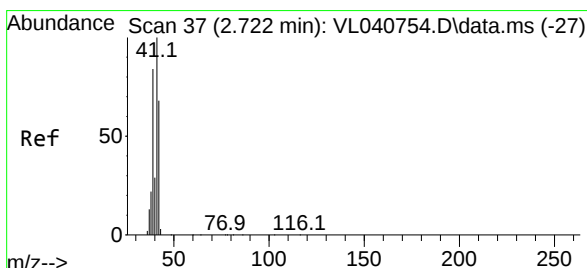
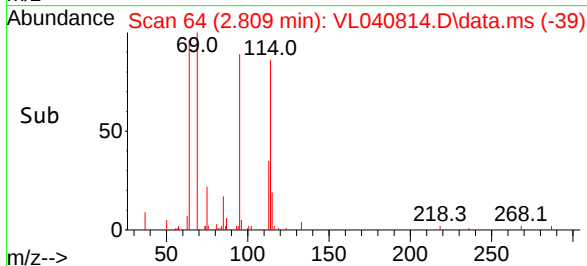
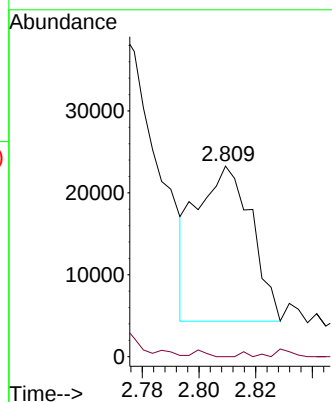
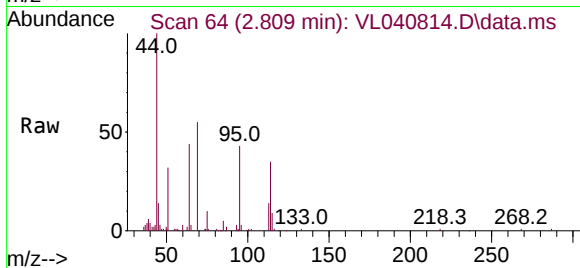




#7
Chloroethane
Concen: 1.302 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.421 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

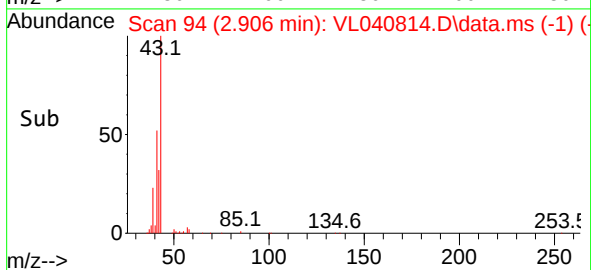
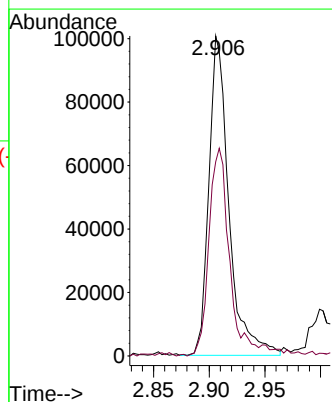
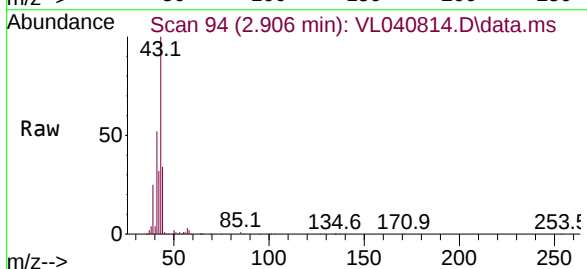
Instrument :
MSVOA_L
ClientSampleId :
IA1

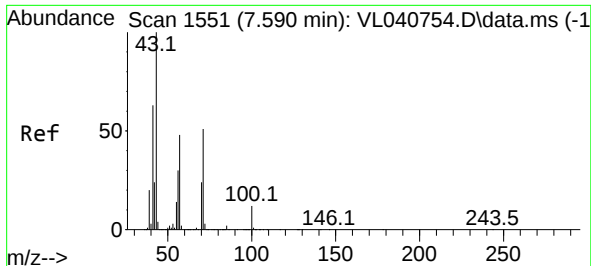
Tgt Ion: 64 Resp: 25607
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#9
Propene
Concen: 2.283 ppbv
RT: 2.906 min Scan# 94
Delta R.T. 0.171 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 41 Resp: 125528
Ion Ratio Lower Upper
41 100
42 66.6 57.1 85.7

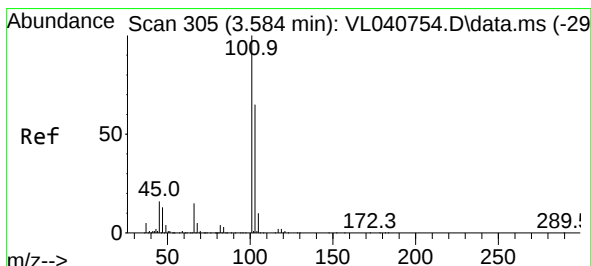
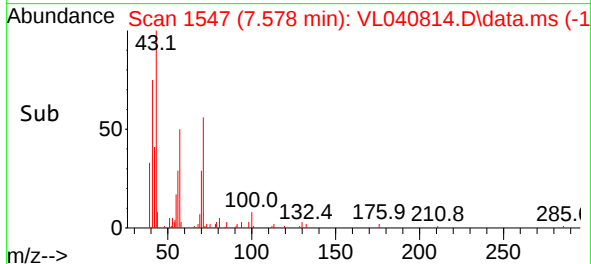
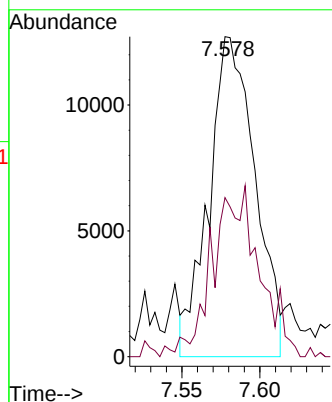
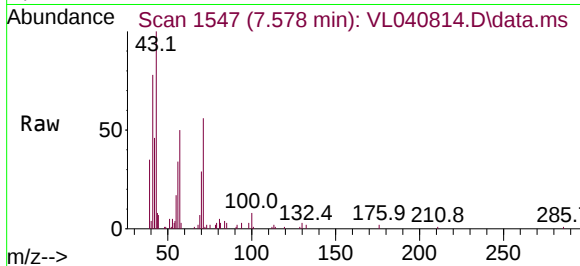




#10
Heptane
Concen: 0.189 ppbv
RT: 7.578 min Scan# 11
Delta R.T. -0.009 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

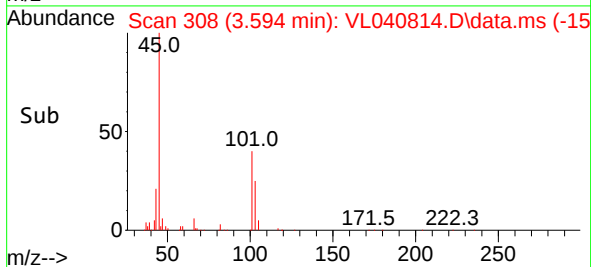
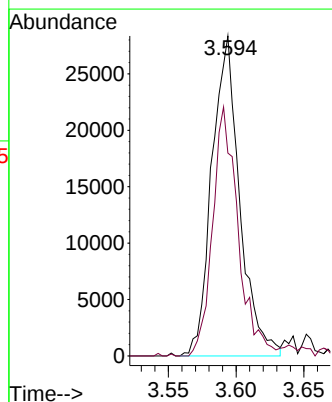
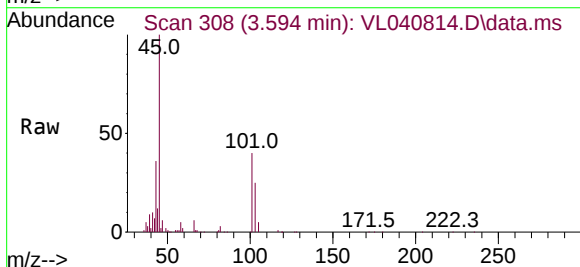
Instrument :
MSVOA_L
ClientSampleId :
IA1

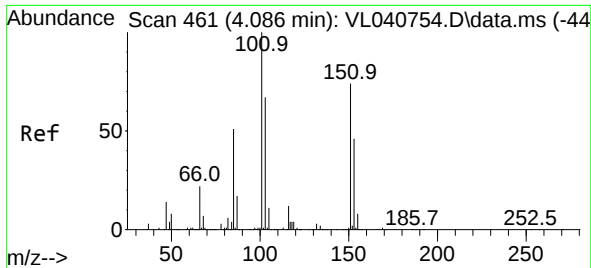
Tgt Ion: 43 Resp: 26166
Ion Ratio Lower Upper
43 100
57 55.0 40.0 60.0



#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.000 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 101 Resp: 40587
Ion Ratio Lower Upper
101 100
103 63.4 52.2 78.2

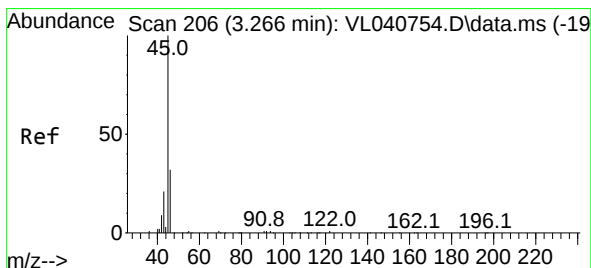
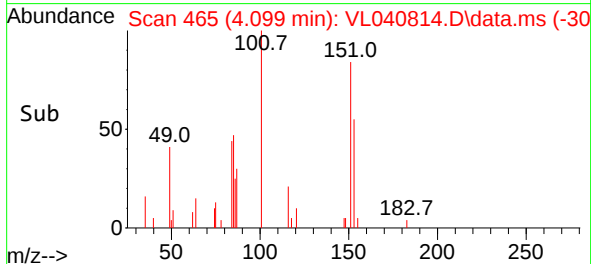
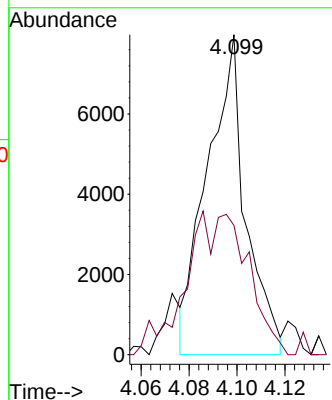
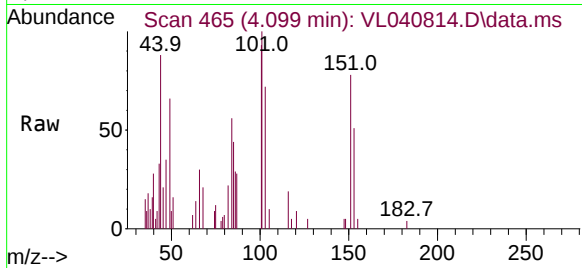




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.091 ppbv
RT: 4.099 min Scan# 409
Delta R.T. 0.007 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

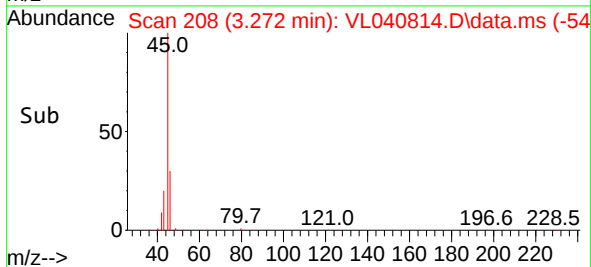
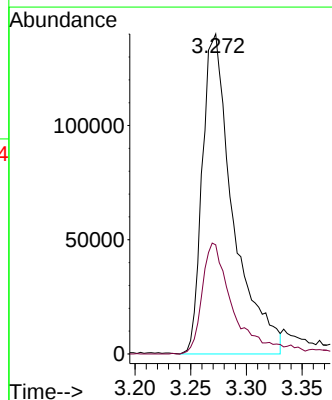
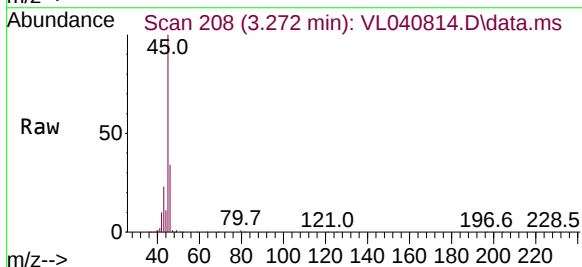
Instrument :
MSVOA_L
ClientSampleId :
IA1

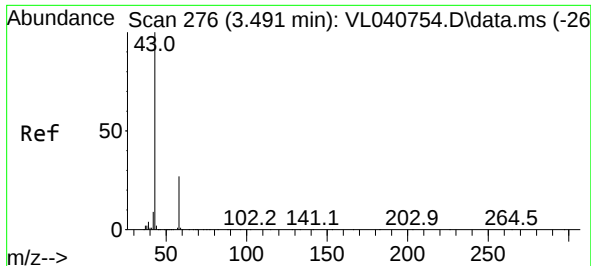
Tgt Ion:101 Resp: 8872
Ion Ratio Lower Upper
101 100
151 73.4 58.1 87.1



#13
Ethanol
Concen: 21.670 ppbv
RT: 3.272 min Scan# 208
Delta R.T. -0.006 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 45 Resp: 269018
Ion Ratio Lower Upper
45 100
46 36.5 14.6 58.2

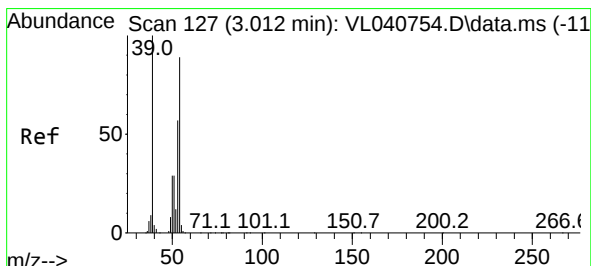
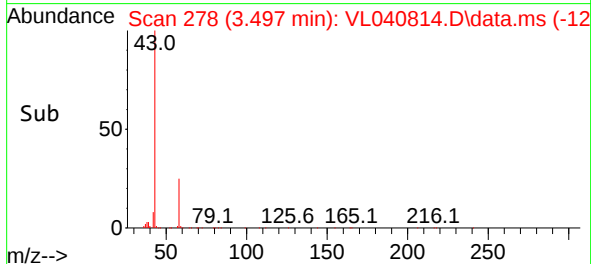
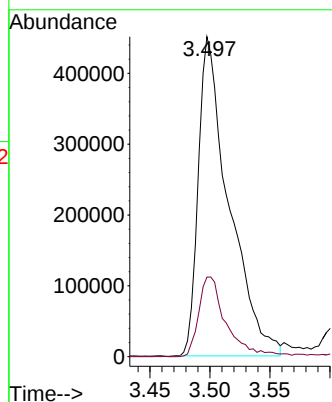
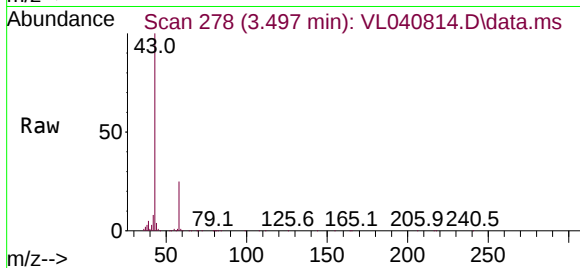




#15
Acetone
Concen: 7.687 ppbv
RT: 3.497 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

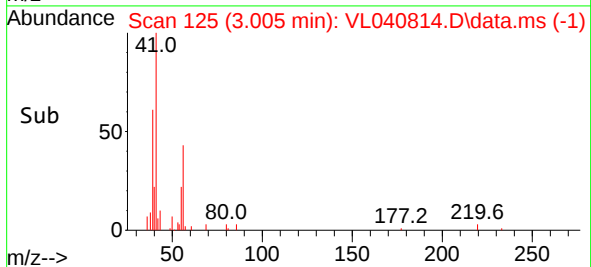
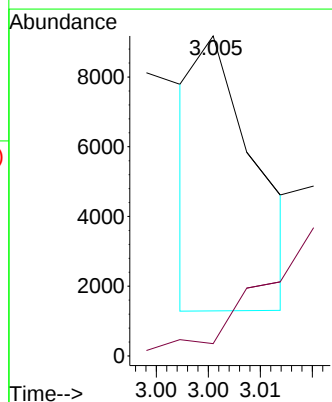
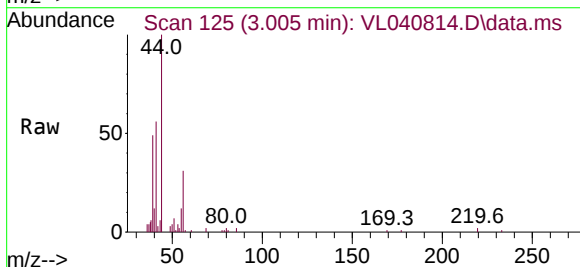
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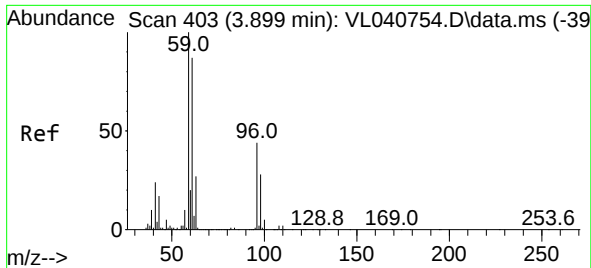
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Ion Ratio Lower Upper
43 100
58 22.5 21.6 32.4



#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 3.005 min Scan# 125
Delta R.T. -0.016 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 39 Resp: 3034
Ion Ratio Lower Upper
39 100
54 236.1 63.0 94.6#





#17

tert-Butyl alcohol

Concen: 0.111 ppbv

RT: 3.919 min Scan# 403

Delta R.T. 0.013 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

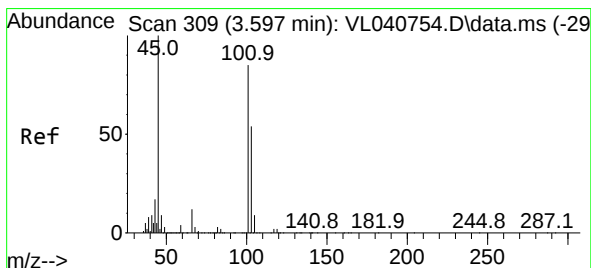
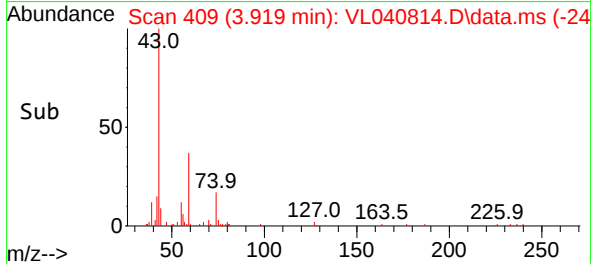
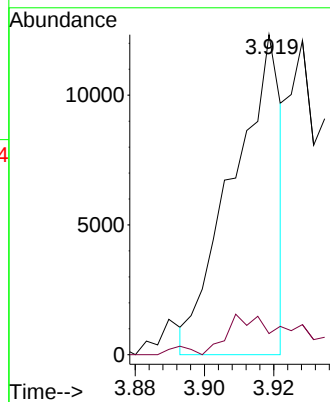
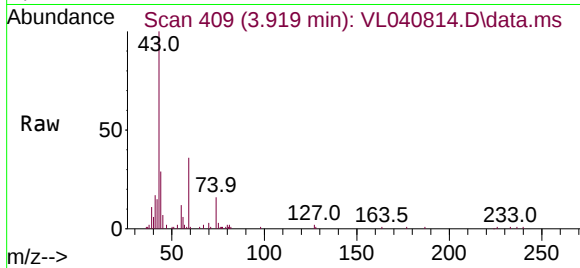
IA1

Tgt Ion: 59 Resp: 11897

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 5.559 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.003 min

Lab File: VL040814.D

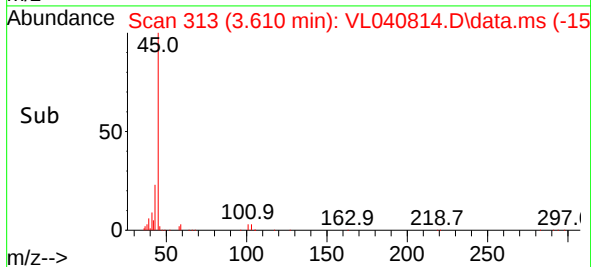
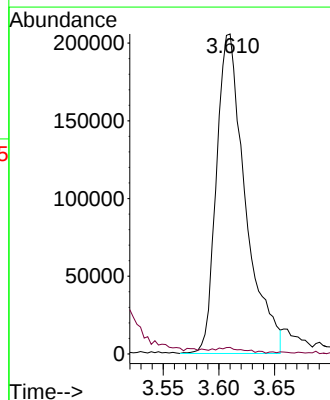
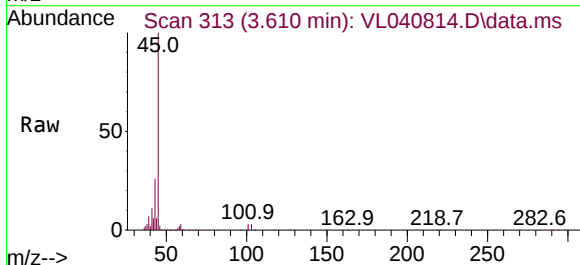
Acq: 8 Nov 2023 17:18

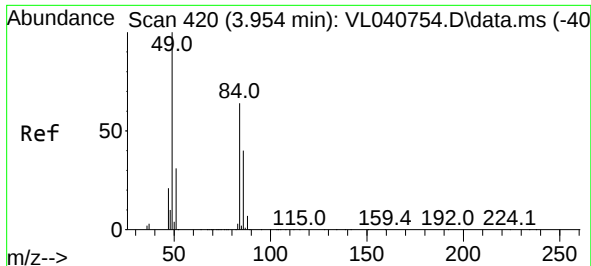
Tgt Ion: 45 Resp: 372740

Ion Ratio Lower Upper

45 100

58 4.2 30.3 45.5#





#20

Methylene Chloride

Concen: 9.147 ppbv

RT: 3.960 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 84 Resp: 396855

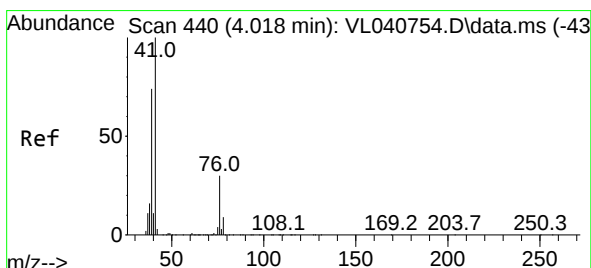
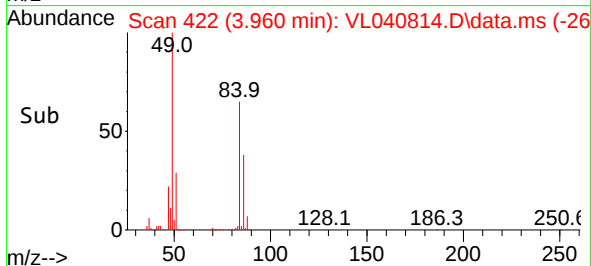
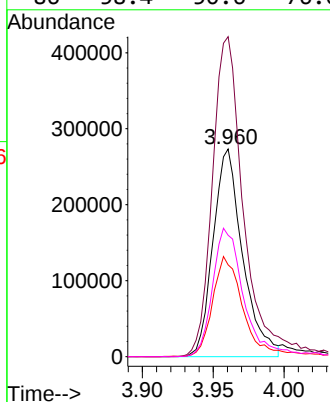
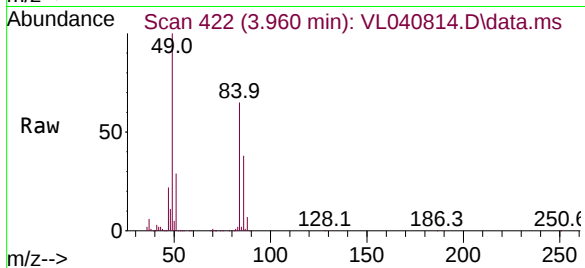
Ion Ratio Lower Upper

84 100

49 154.0 125.6 188.4

51 44.1 38.9 58.3

86 58.4 50.6 76.0



#21

Allyl Chloride

Concen: 0.246 ppbv

RT: 3.964 min Scan# 423

Delta R.T. -0.058 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

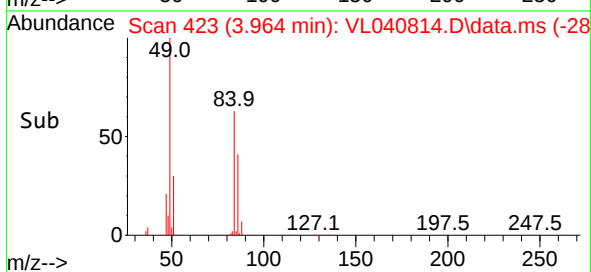
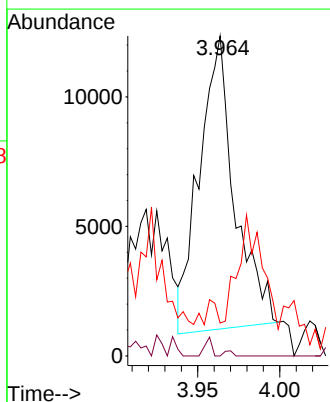
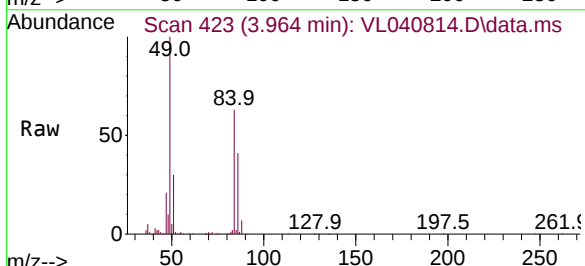
Tgt Ion: 41 Resp: 16882

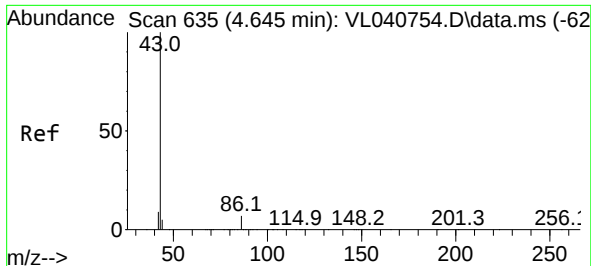
Ion Ratio Lower Upper

41 100

76 0.0 24.1 36.1#

39 38.2 63.8 95.6#

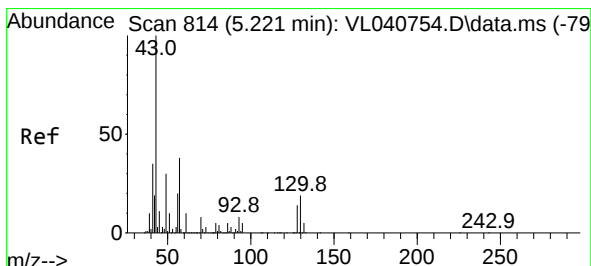
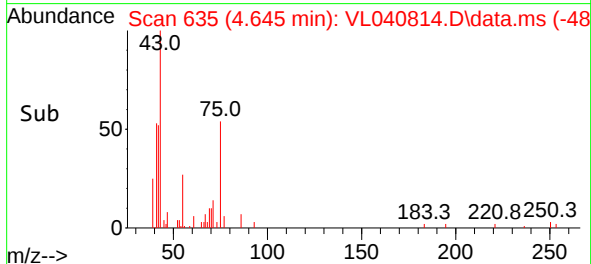
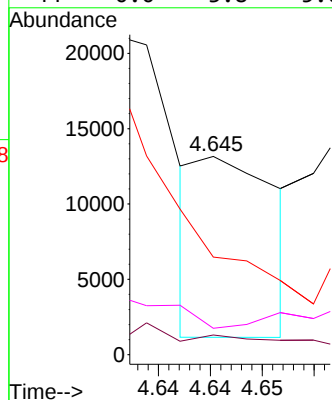
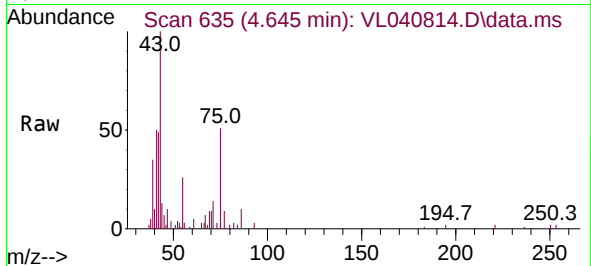




#23
 Vinyl Acetate
 Concen: 0.048 ppbv
 RT: 4.645 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL040814.D
 Acq: 8 Nov 2023 17:18

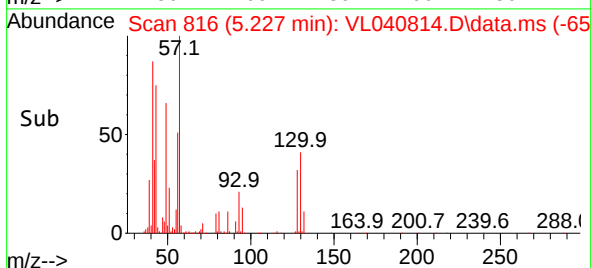
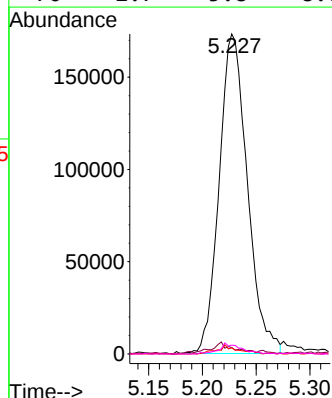
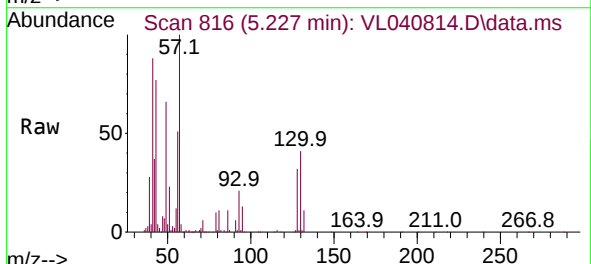
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

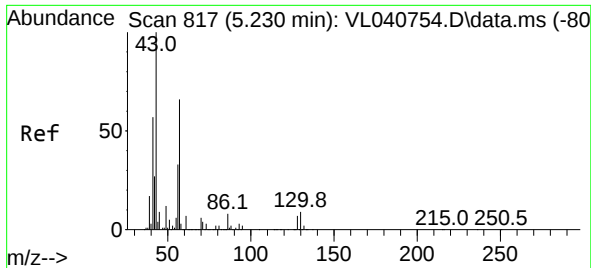
Tgt Ion:	43	Resp:	6321
Ion	Ratio	Lower	Upper
43	100		
86	19.4	4.9	7.3#
42	72.6	7.8	11.6#
44	0.0	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 1.382 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.007 min
 Lab File: VL040814.D
 Acq: 8 Nov 2023 17:18

Tgt Ion:	43	Resp:	315293
Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.2	12.4#
61	2.1	8.2	12.2#
70	2.7	5.8	8.6#

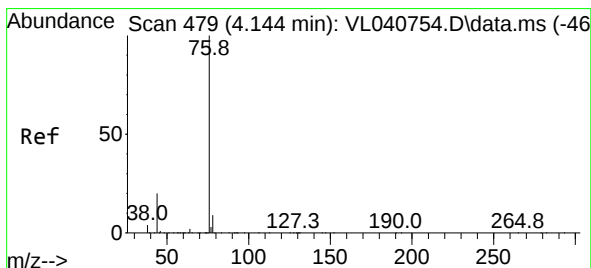
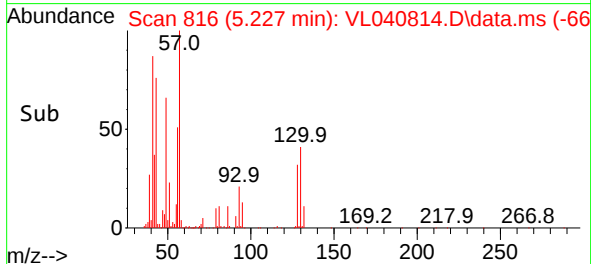
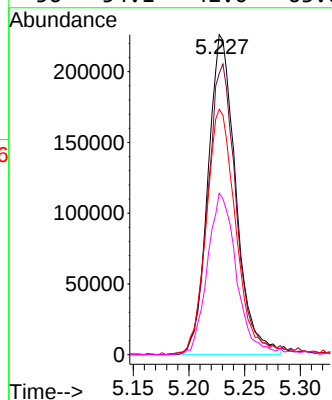
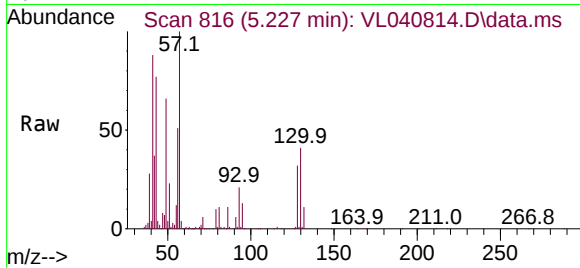




#26
Hexane
Concen: 3.759 ppbv
RT: 5.227 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

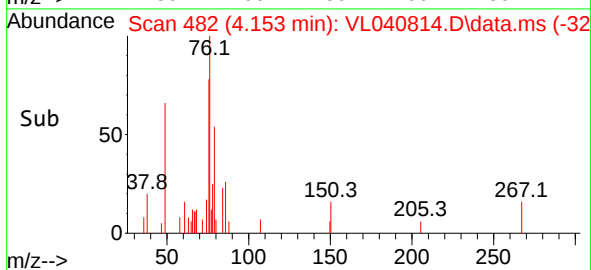
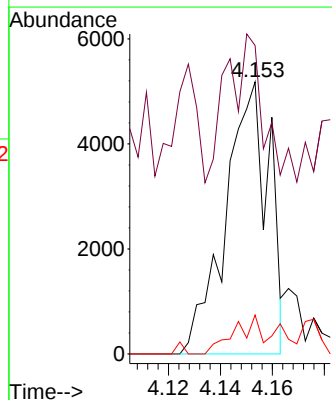
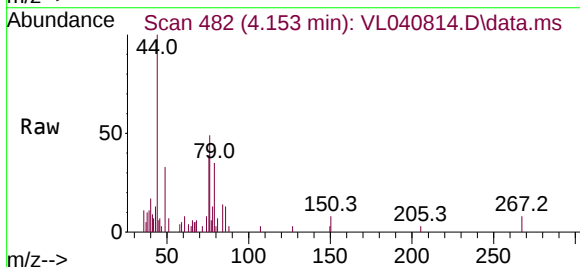
Instrument :
MSVOA_L
ClientSampleId :
IA1

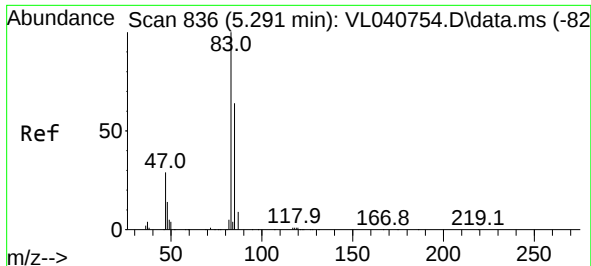
Tgt Ion: 57 Resp: 392065
Ion Ratio Lower Upper
57 100
41 95.0 71.4 107.2
43 83.5 182.3 273.5#
56 54.1 42.0 63.0



#27
Carbon Disulfide
Concen: 0.052 ppbv
RT: 4.153 min Scan# 482
Delta R.T. 0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 76 Resp: 6007
Ion Ratio Lower Upper
76 100
44 71.3 16.6 25.0#
78 17.8 7.8 11.6#





#29

Chloroform

Concen: 0.062 ppbv

RT: 5.285 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

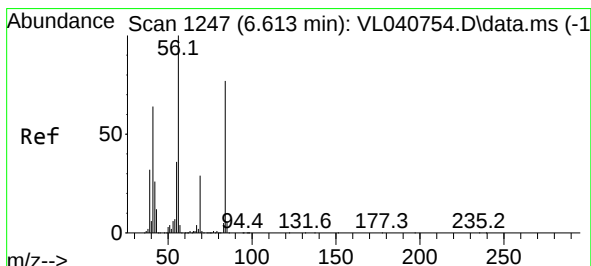
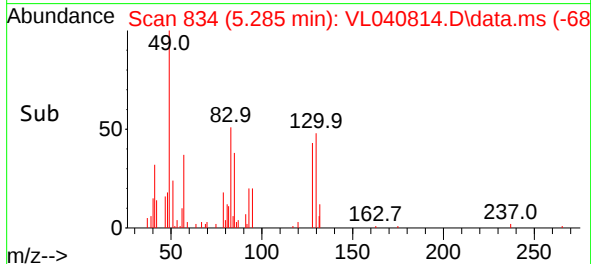
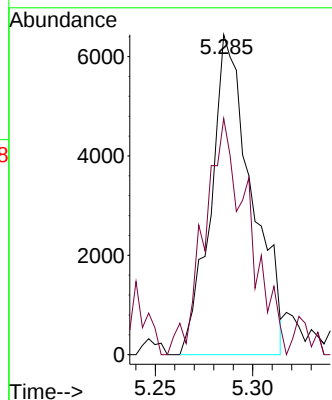
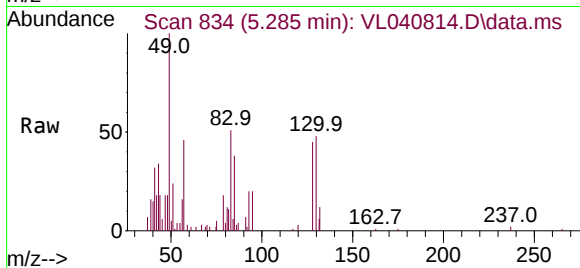
IA1

Tgt Ion: 83 Resp: 9418

Ion Ratio Lower Upper

83 100

85 64.7 51.3 76.9



#30

Cyclohexane

Concen: 0.126 ppbv

RT: 6.616 min Scan# 1248

Delta R.T. 0.007 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

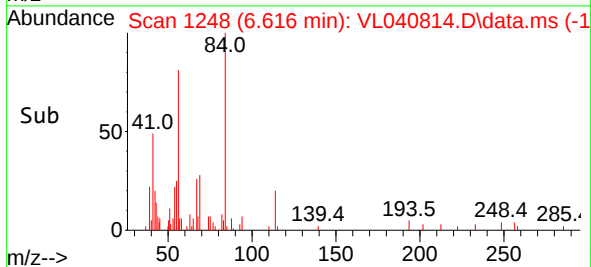
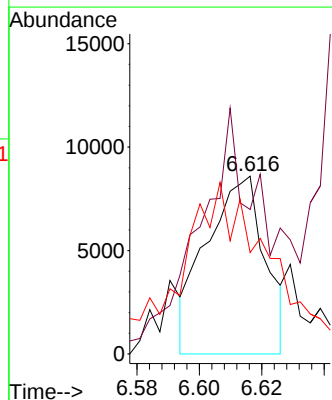
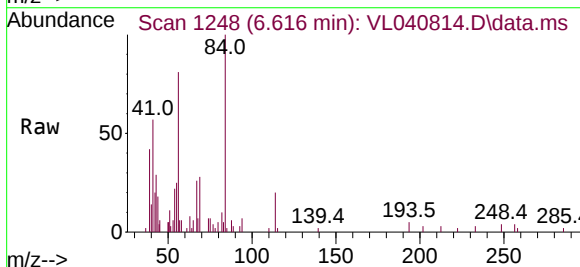
Tgt Ion: 84 Resp: 11186

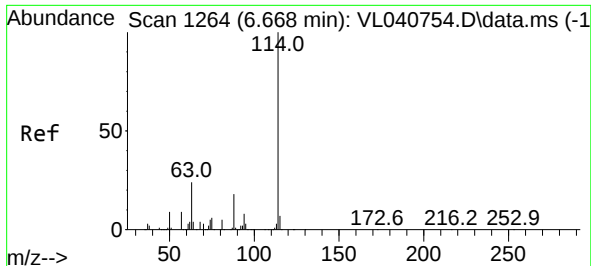
Ion Ratio Lower Upper

84 100

56 140.5 110.3 165.5

41 132.4 67.4 101.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

IA1

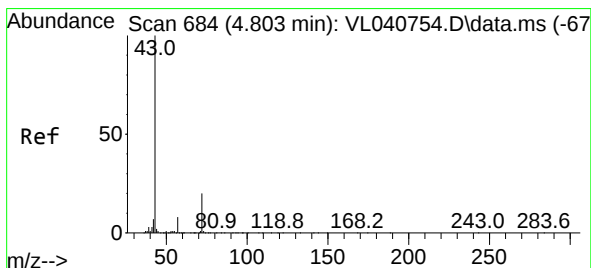
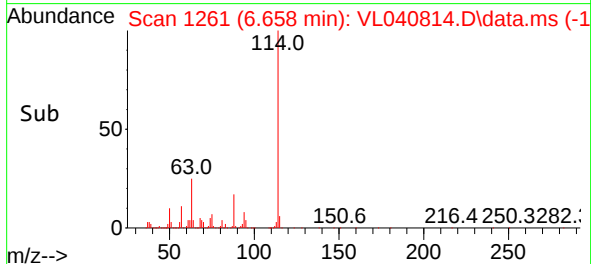
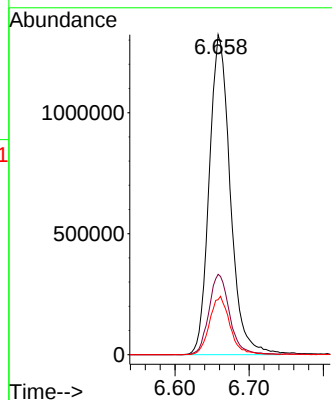
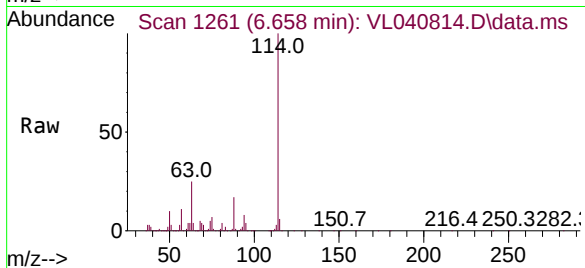
Tgt Ion:114 Resp: 2602377

Ion Ratio Lower Upper

114 100

63 25.1 19.8 29.6

88 17.8 14.2 21.2



#34

2-Butanone

Concen: 0.672 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.003 min

Lab File: VL040814.D

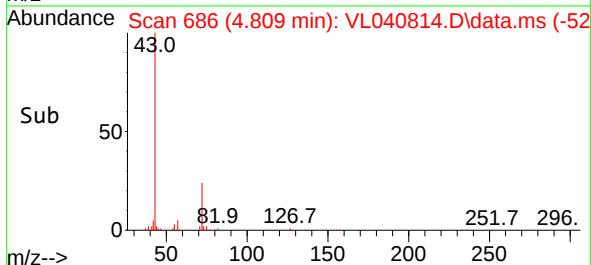
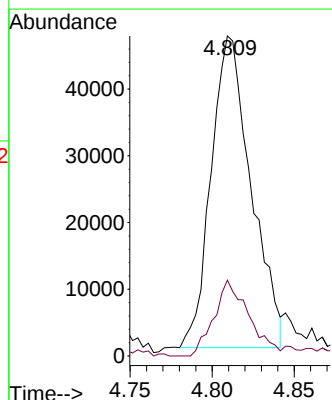
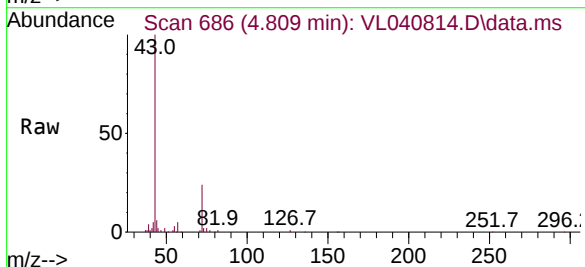
Acq: 8 Nov 2023 17:18

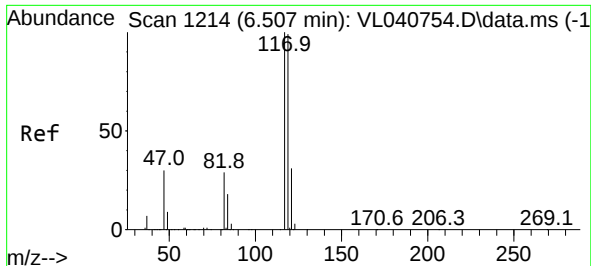
Tgt Ion: 43 Resp: 79162

Ion Ratio Lower Upper

43 100

72 22.1 16.8 25.2

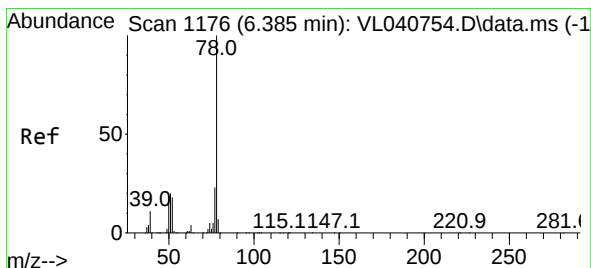
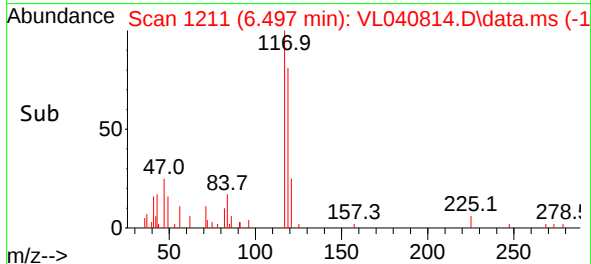
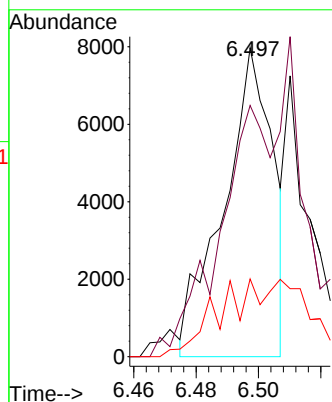
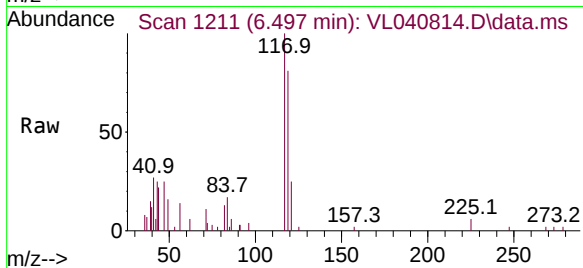




#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 6.497 min Scan# 1174
Delta R.T. -0.009 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

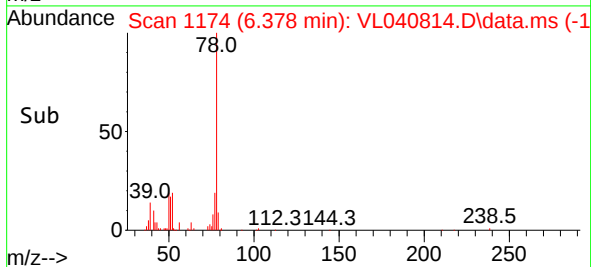
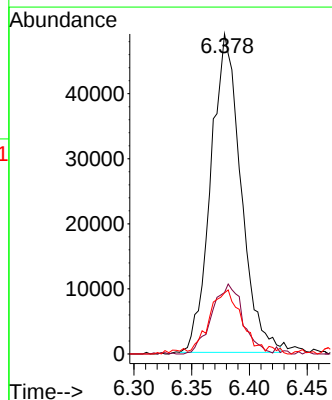
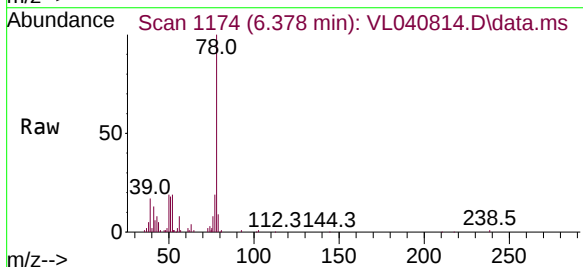
Instrument :
MSVOA_L
ClientSampleId :
IA1

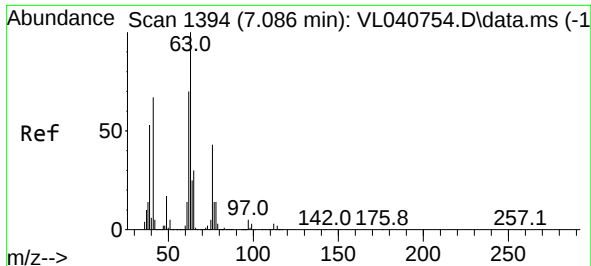
Tgt Ion:117 Resp: 8781
Ion Ratio Lower Upper
117 100
119 72.9 79.4 119.0#
121 24.1 25.0 37.4#



#36
Benzene
Concen: 0.443 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 78 Resp: 88725
Ion Ratio Lower Upper
78 100
77 19.3 18.4 27.6
50 18.3 15.0 22.4





#39

1,2-Dichloropropane

Concen: 8.118 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

IA1

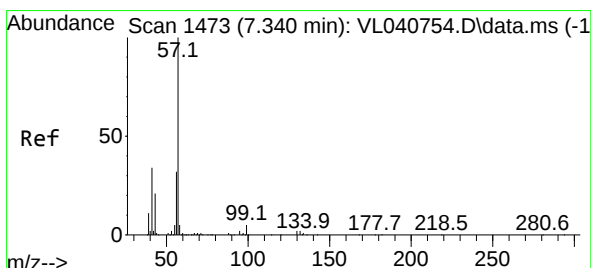
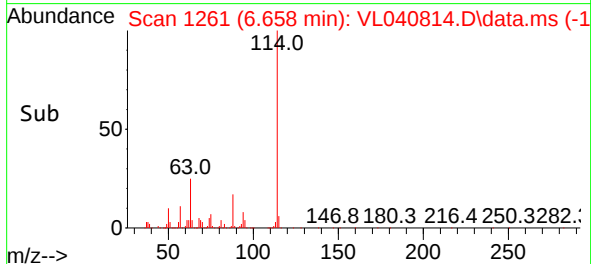
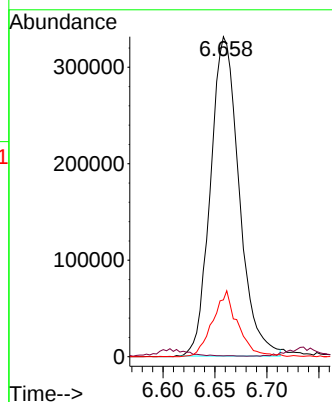
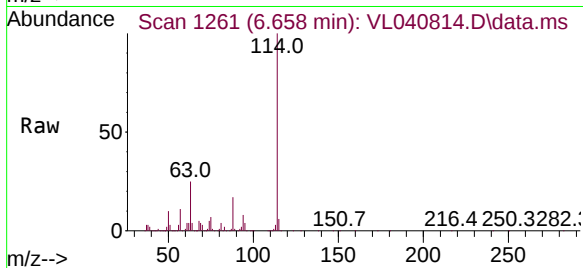
Tgt Ion: 63 Resp: 634854

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 17.8 55.7 83.5#



#44

2,2,4-Trimethylpentane

Concen: 0.142 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.003 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

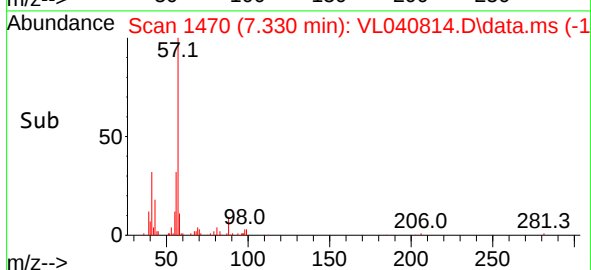
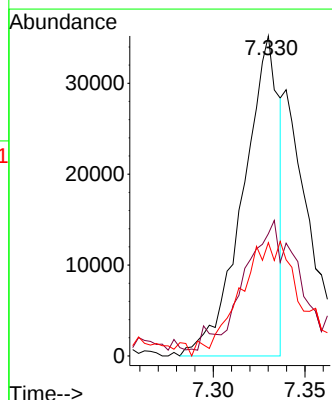
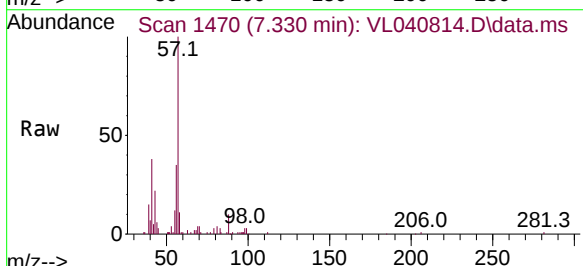
Tgt Ion: 57 Resp: 48044

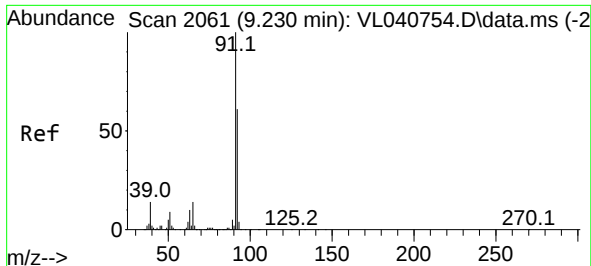
Ion Ratio Lower Upper

57 100

41 0.0 27.4 41.0#

56 0.0 25.0 37.6#





#53

Toluene

Concen: 0.521 ppbv

RT: 9.214 min Scan# 2061

Delta R.T. -0.006 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

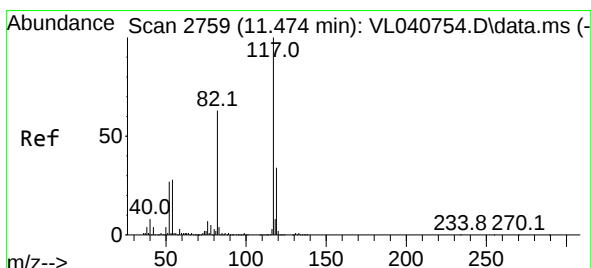
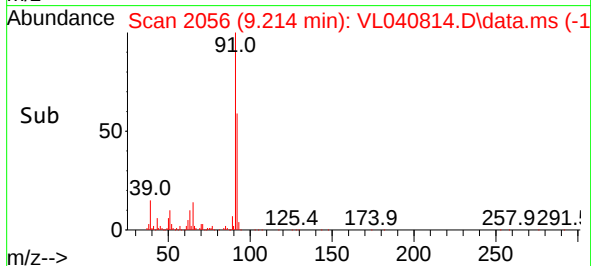
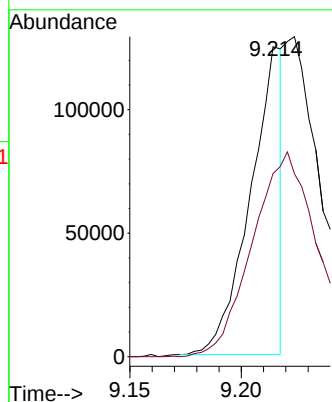
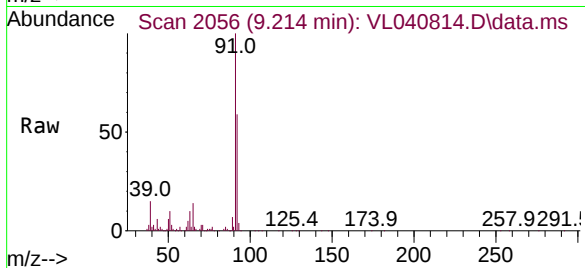
IA1

Tgt Ion: 91 Resp: 124000

Ion Ratio Lower Upper

91 100

92 0.0 50.2 75.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. 0.000 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

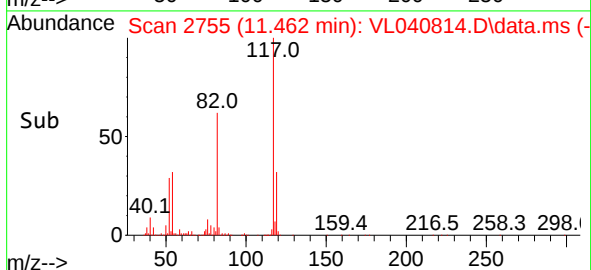
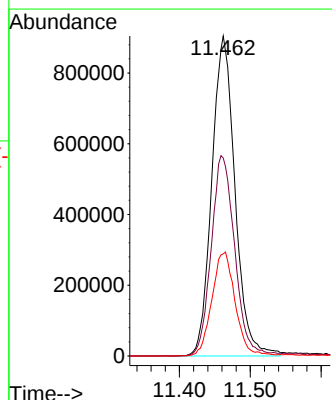
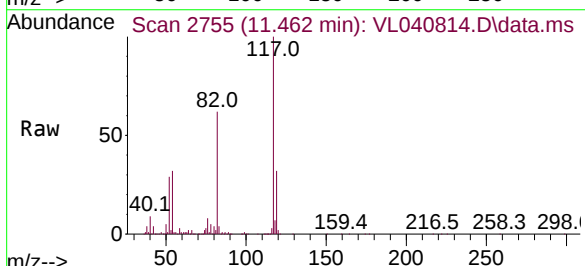
Tgt Ion: 117 Resp: 2055351

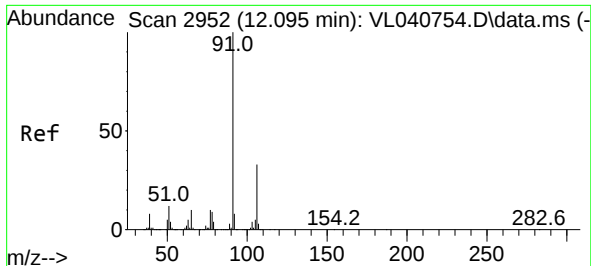
Ion Ratio Lower Upper

117 100

82 65.1 46.6 70.0

119 33.0 26.0 39.0

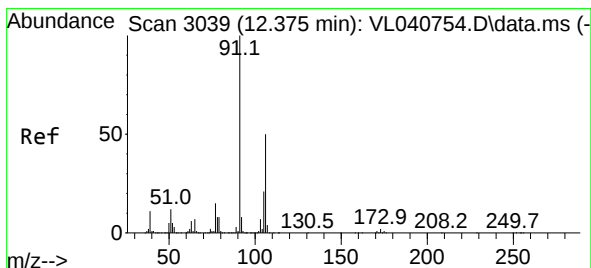
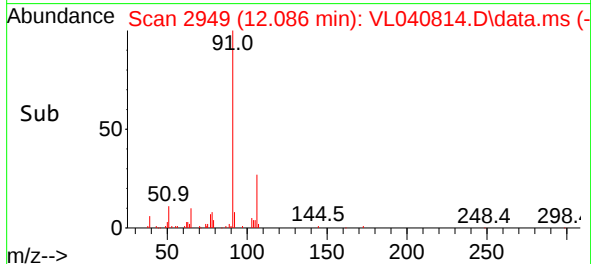
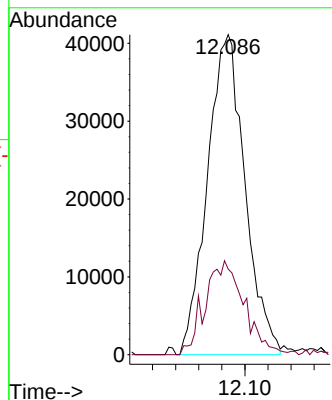
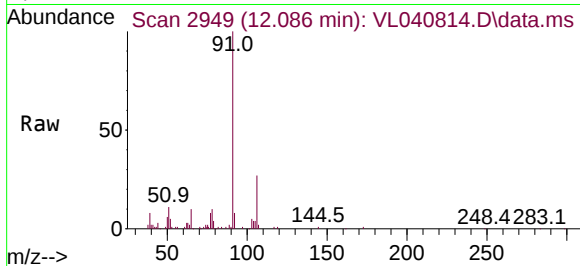




#58
Ethyl Benzene
Concen: 0.359 ppbv
RT: 12.086 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

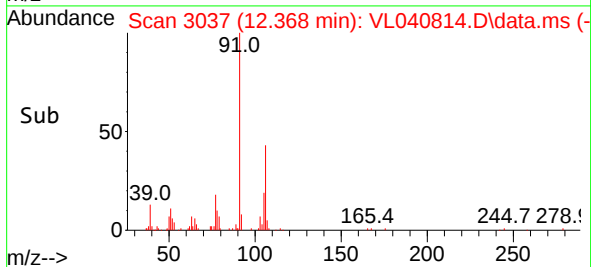
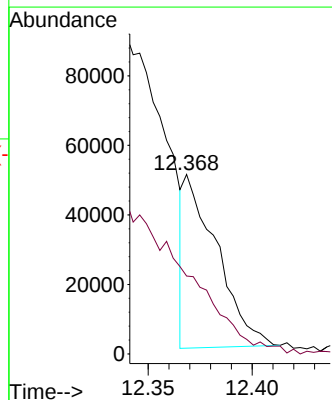
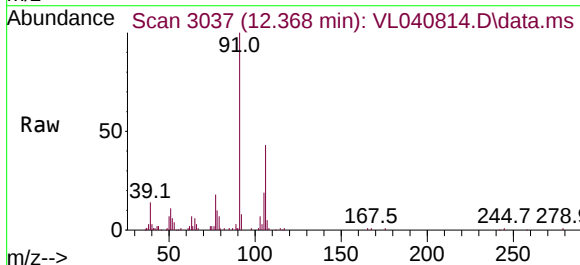
Instrument :
MSVOA_L
ClientSampleId :
IA1

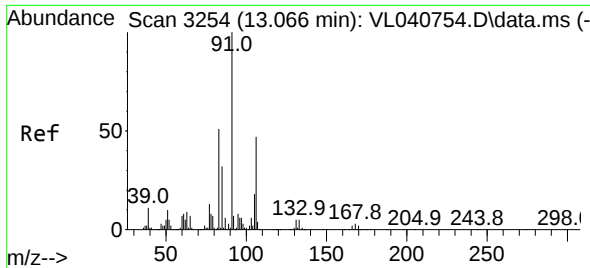
Tgt Ion: 91 Resp: 92883
Ion Ratio Lower Upper
91 100
106 26.8 26.7 40.1



#59
m/p-Xylene
Concen: 0.258 ppbv
RT: 12.368 min Scan# 3037
Delta R.T. 0.000 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 91 Resp: 54880
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#

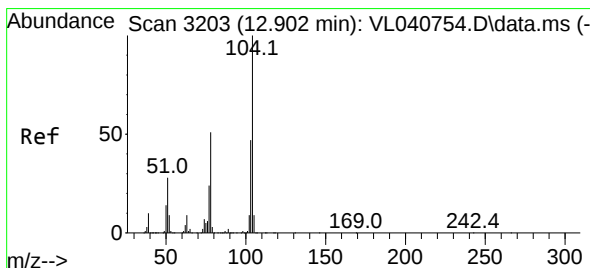
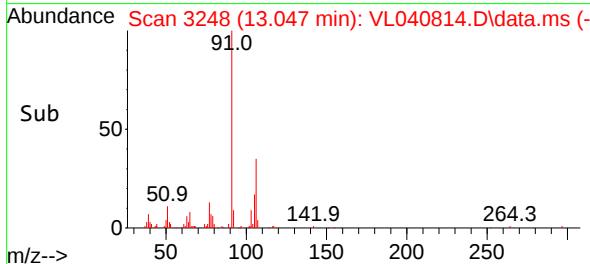
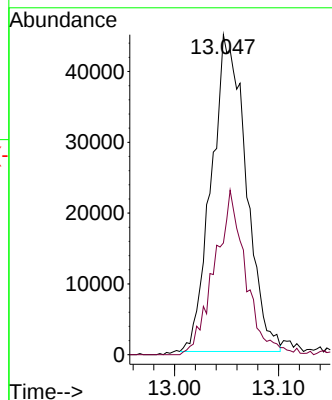
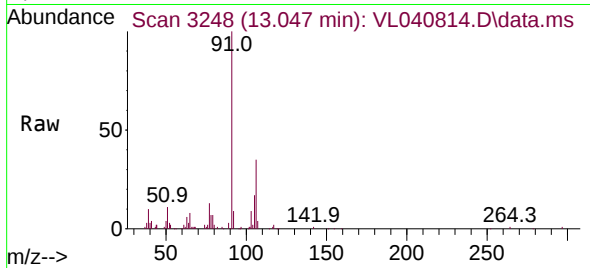




#60
o-Xylene
Concen: 0.511 ppbv
RT: 13.047 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

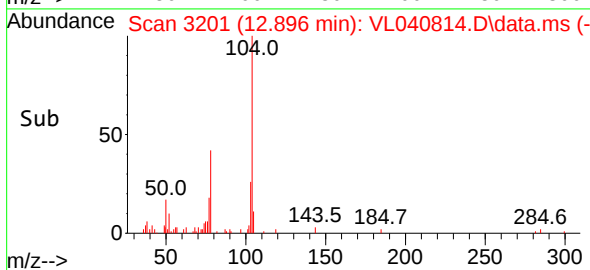
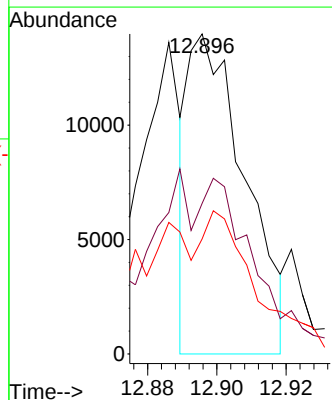
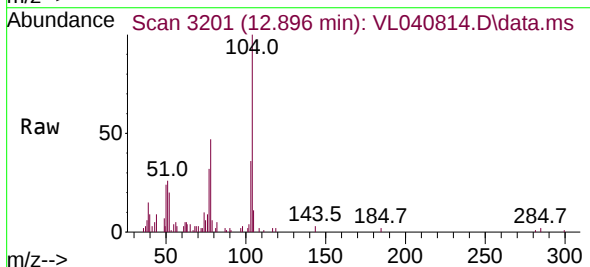
Instrument :
MSVOA_L
ClientSampleId :
IA1

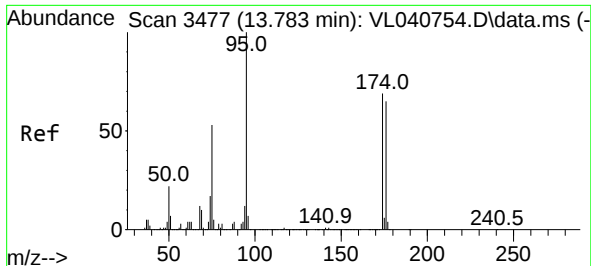
Tgt Ion: 91 Resp: 103666
Ion Ratio Lower Upper
91 100
106 46.9 23.5 70.5



#61
Styrene
Concen: 0.142 ppbv
RT: 12.896 min Scan# 3201
Delta R.T. 0.003 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 104 Resp: 15929
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 92.8 37.5 56.3#

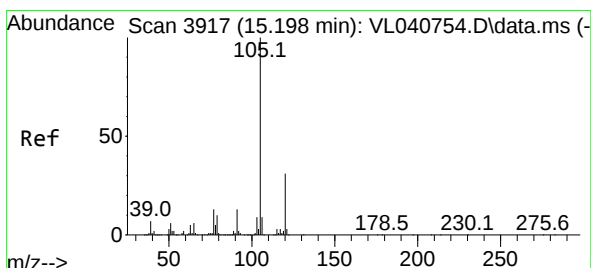
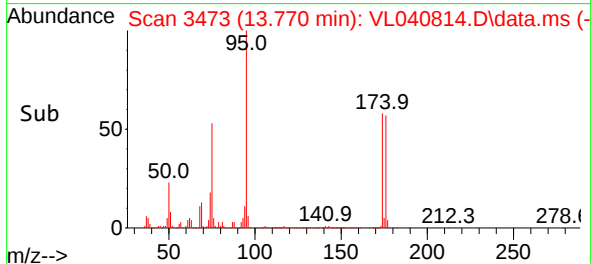
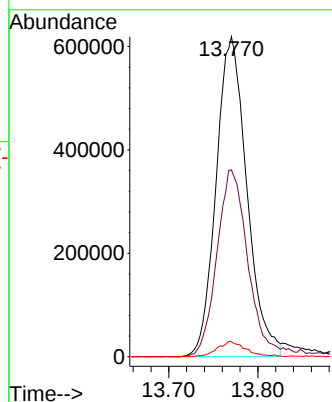
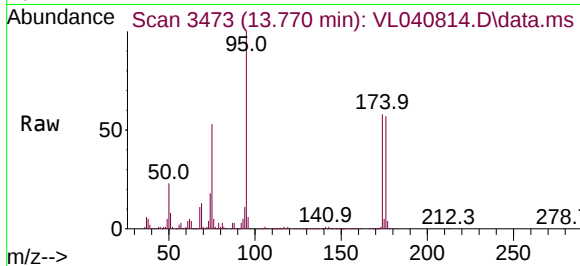




#68
1-Bromo-4-Fluorobenzene
Concen: 9.815 ppbv
RT: 13.770 min Scan# 3477
Delta R.T. 0.000 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

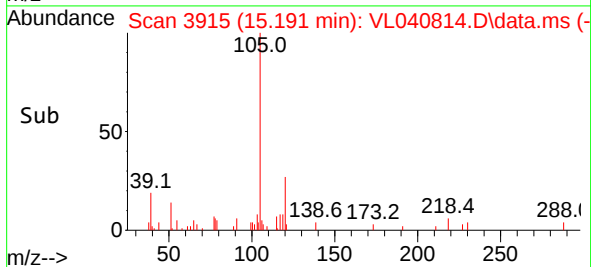
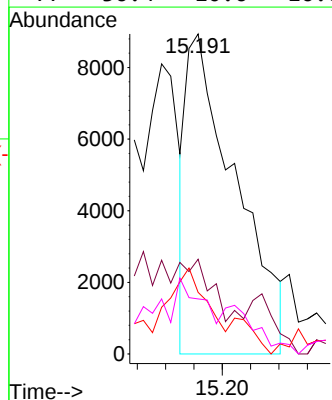
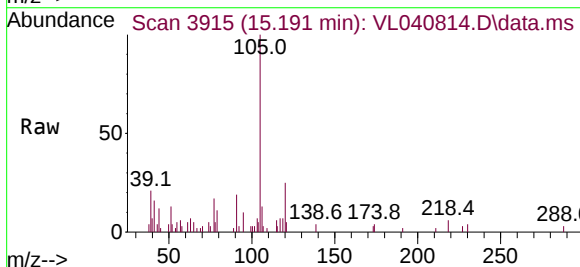
Instrument :
MSVOA_L
ClientSampleId :
IA1

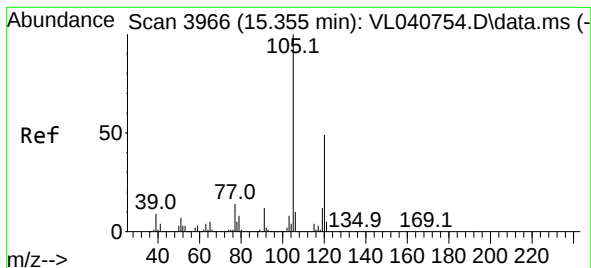
Tgt Ion: 95 Resp: 1484356
Ion Ratio Lower Upper
95 100
174 61.4 54.7 82.1
175 4.5 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.046 ppbv
RT: 15.191 min Scan# 3915
Delta R.T. 0.007 min
Lab File: VL040814.D
Acq: 8 Nov 2023 17:18

Tgt Ion: 105 Resp: 10820
Ion Ratio Lower Upper
105 100
120 0.0 25.0 37.4#
91 33.4 9.8 14.8#
77 36.4 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.030 ppbv

RT: 15.343 min Scan# 3966

Delta R.T. 0.000 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Instrument :

MSVOA_L

ClientSampleId :

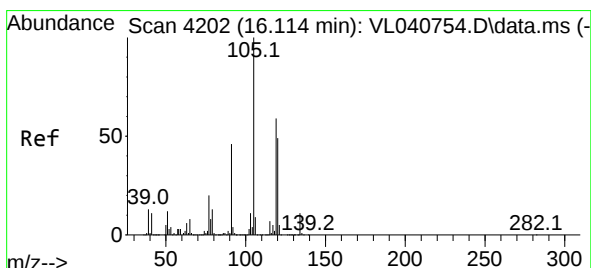
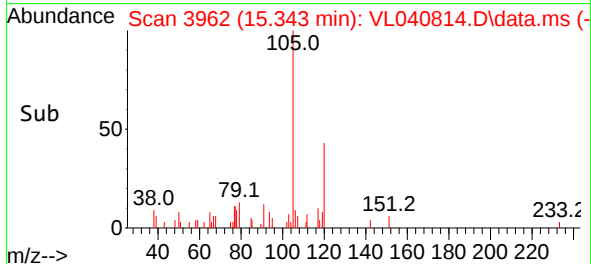
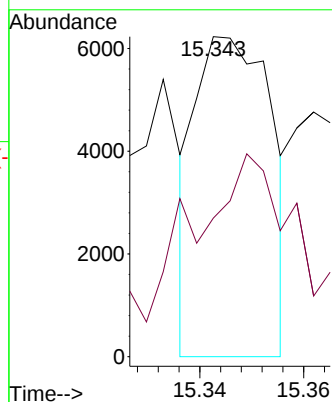
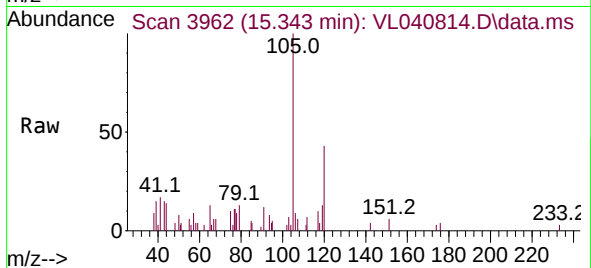
IA1

Tgt Ion:105 Resp: 6335

Ion Ratio Lower Upper

105 100

120 10.5 39.4 59.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.215 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.003 min

Lab File: VL040814.D

Acq: 8 Nov 2023 17:18

Tgt Ion:105 Resp: 49248

Ion Ratio Lower Upper

105 100

120 47.7 39.4 59.2

91 12.4 38.6 58.0#

77 13.6 16.6 25.0#

