

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040769.D
 Acq On : 11 Oct 2023 23:53
 Operator : SY/MD
 Sample : 04827-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Quant Time: Oct 13 01:21:25 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)

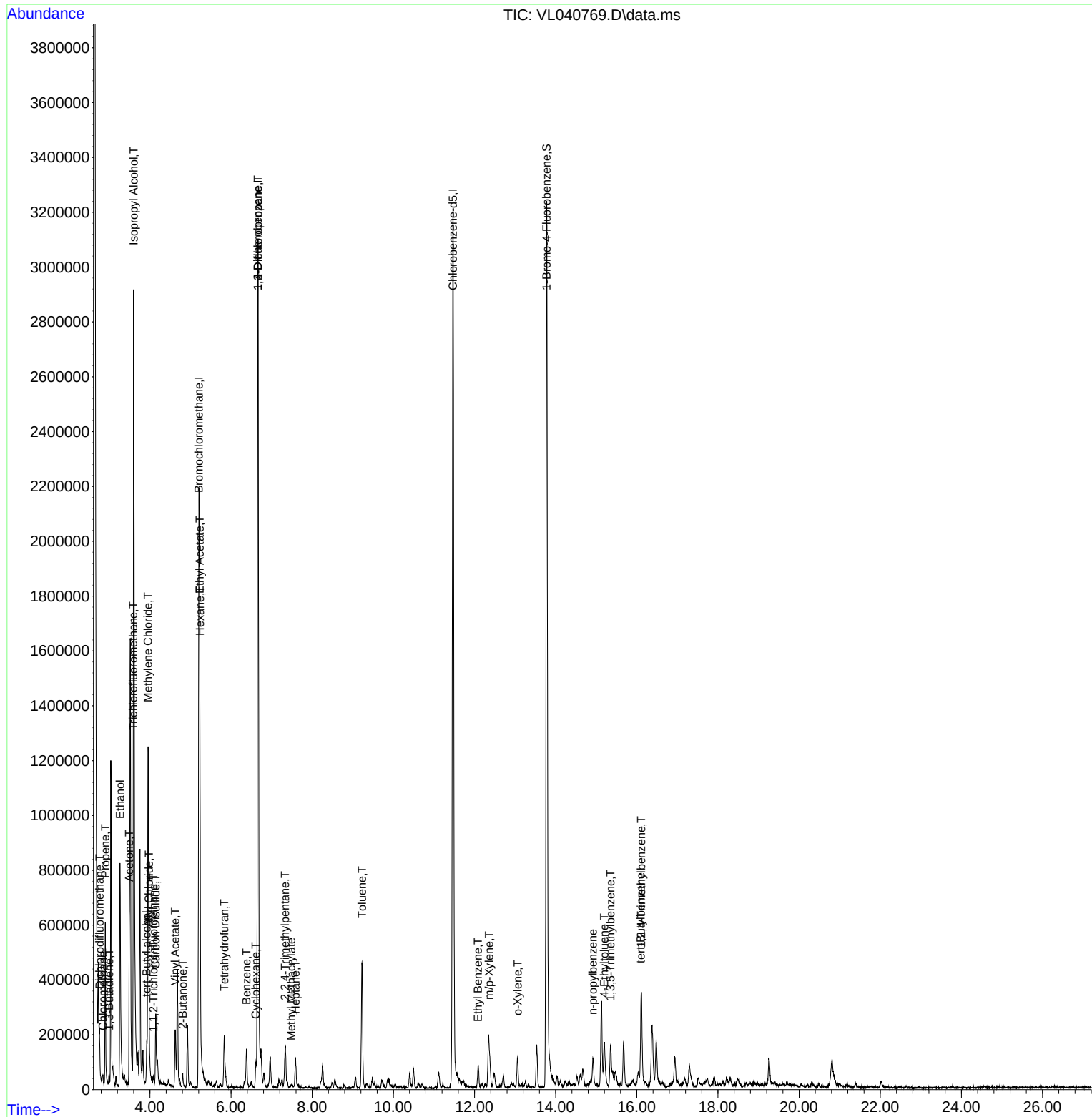
Internal Standards						
1) Bromochloromethane	5.205	49	914480	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2565934	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2296764	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1710333	10.120	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	85376	0.530	ppbv	93
4) Chloromethane	2.841	50	26181	0.493	ppbv	94
9) Propene	2.899	41	138264	2.770	ppbv	93
10) Heptane	7.587	43	53083	0.423	ppbv	98
11) Trichlorofluoromethane	3.587	101	29288	0.236	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.089	101	3850	0.043	ppbv #	13
13) Ethanol	3.262	45	854401	75.824	ppbv	97
15) Acetone	3.491	43	482925	5.108	ppbv #	89
16) 1,3-Butadiene	2.996	39	7086	0.143	ppbv #	10
17) tert-Butyl alcohol	3.922	59	9648	0.100	ppbv #	1
19) Isopropyl Alcohol	3.600	45	3269596	53.725	ppbv #	39
20) Methylene Chloride	3.954	84	389014	9.879	ppbv	98
21) Allyl Chloride	3.973	41	23995	0.385	ppbv #	52
23) Vinyl Acetate	4.623	43	79513	0.660	ppbv #	1
25) Ethyl Acetate	5.227	43	349848	1.689	ppbv #	81
26) Hexane	5.230	57	475199	5.020	ppbv #	42
27) Carbon Disulfide	4.143	76	290060	2.777	ppbv #	85
30) Cyclohexane	6.610	84	18285	0.227	ppbv #	24
34) 2-Butanone	4.809	43	48093	0.414	ppbv #	89
36) Benzene	6.378	78	110056	0.558	ppbv	99
39) 1,2-Dichloropropane	6.664	63	597605	7.750	ppbv #	26
41) Tetrahydrofuran	5.832	42	16567	0.206	ppbv #	37
43) Methyl Methacrylate	7.484	69	2648	0.034	ppbv #	1
44) 2,2,4-Trimethylpentane	7.333	57	70808	0.212	ppbv #	3
53) Toluene	9.227	91	350811	1.494	ppbv	99
58) Ethyl Benzene	12.085	91	31788	0.110	ppbv #	86
59) m/p-Xylene	12.359	91	86851	0.365	ppbv #	30
60) o-Xylene	13.063	91	82458	0.364	ppbv	98
64) n-propylbenzene	14.915	120	10682	0.114	ppbv #	1
65) tert-Butylbenzene	16.098	119	11537	0.037	ppbv #	20
72) 4-Ethyltoluene	15.198	105	98384	0.370	ppbv #	74
73) 1,3,5-Trimethylbenzene	15.352	105	111712	0.478	ppbv	95
74) 1,2,4-Trimethylbenzene	16.108	105	194138	0.760	ppbv #	73

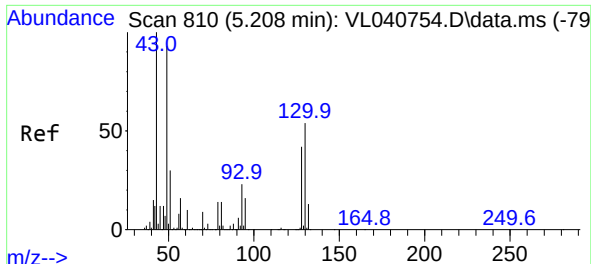
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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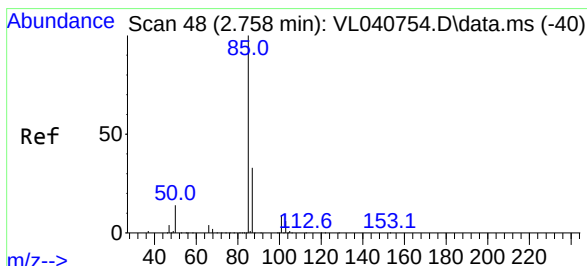
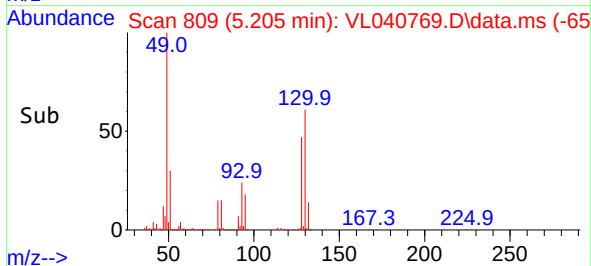
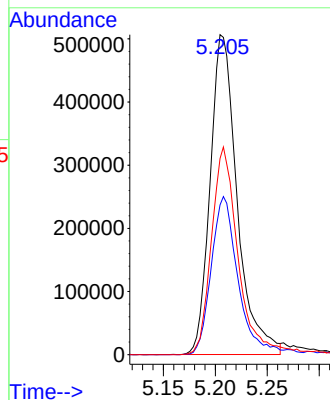
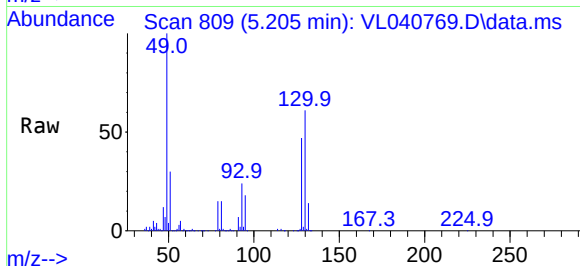




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 810
 Delta R.T. -0.003 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

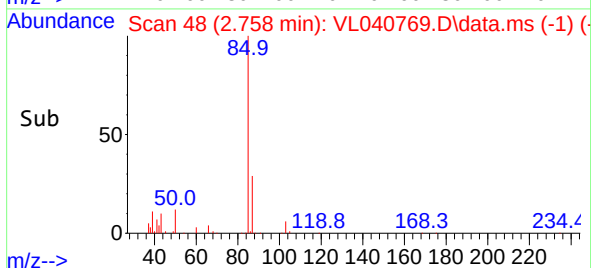
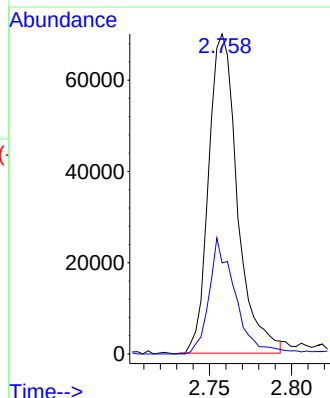
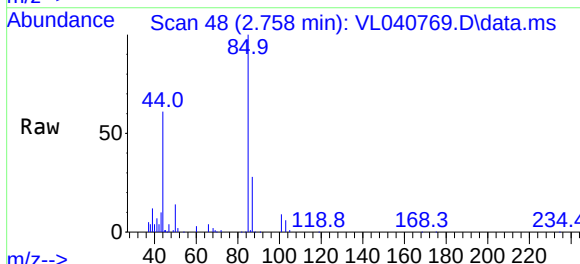
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 MSVOA_L
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 IA3

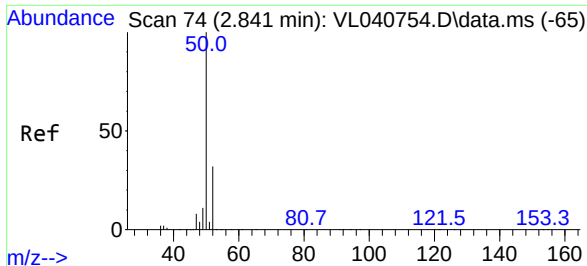
Tgt Ion: 49 Resp: 914480
 Ion Ratio Lower Upper
 49 100
 128 51.2 23.9 71.7
 130 65.9 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.530 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. -0.000 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

Tgt Ion: 85 Resp: 85376
 Ion Ratio Lower Upper
 85 100
 87 28.5 26.0 39.0

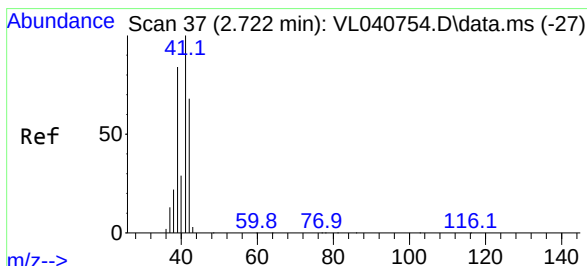
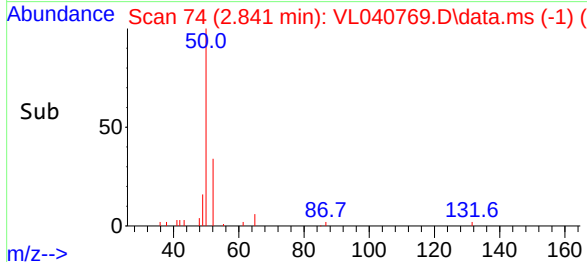
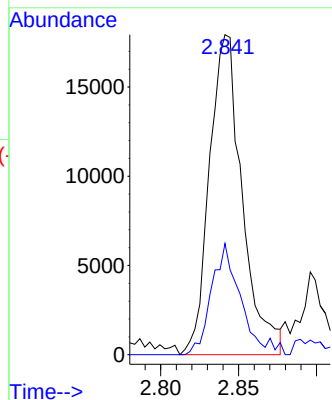
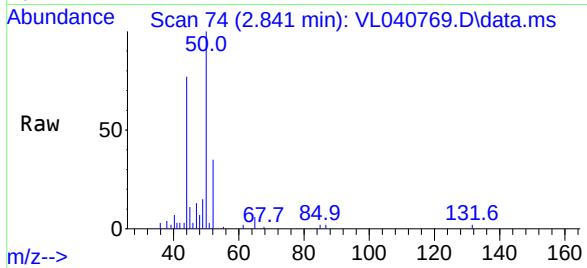




#4
Chloromethane
Concen: 0.493 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

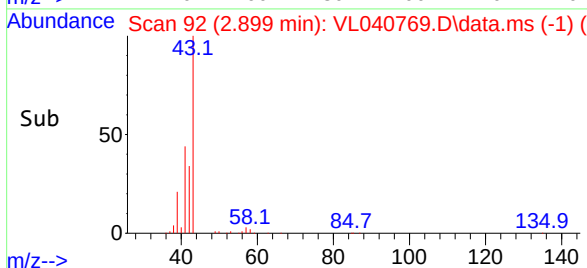
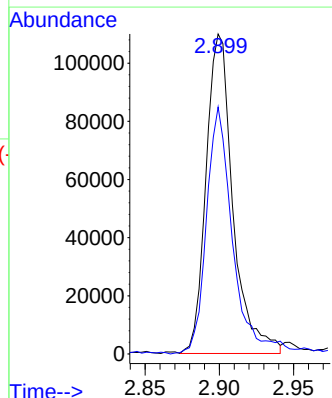
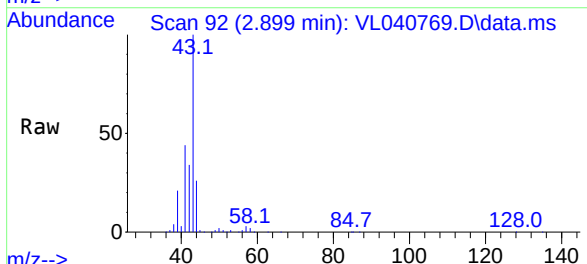
Instrument :
MSVOA_L
ClientSampleId :
IA3

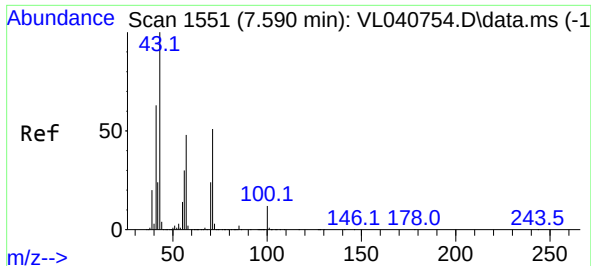
Tgt Ion: 50 Resp: 26181
Ion Ratio Lower Upper
50 100
52 34.8 25.3 37.9



#9
Propene
Concen: 2.770 ppbv
RT: 2.899 min Scan# 92
Delta R.T. 0.177 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 41 Resp: 138264
Ion Ratio Lower Upper
41 100
42 76.8 57.1 85.7

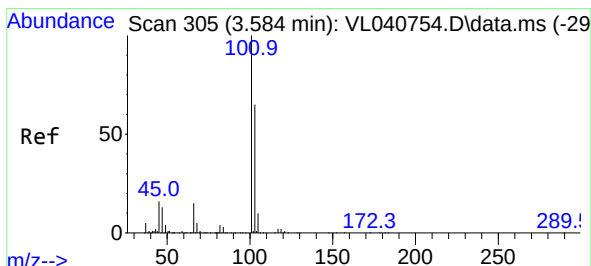
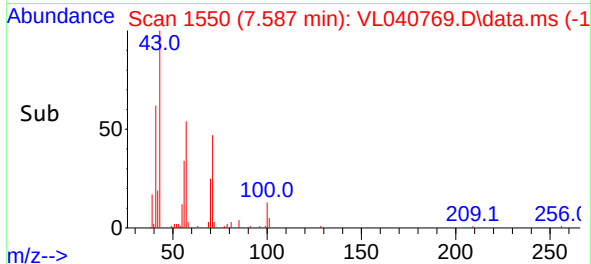
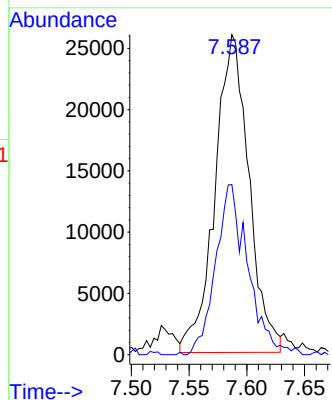
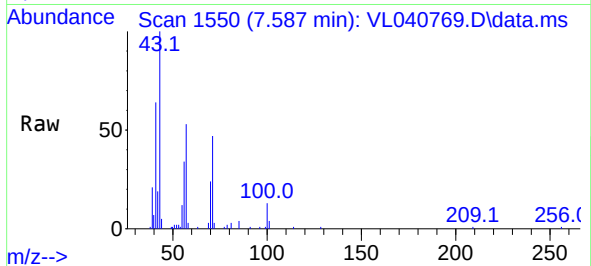




#10
Heptane
Concen: 0.423 ppbv
RT: 7.587 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

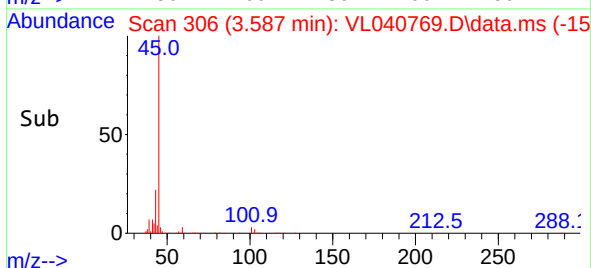
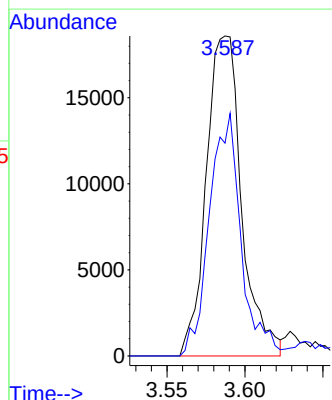
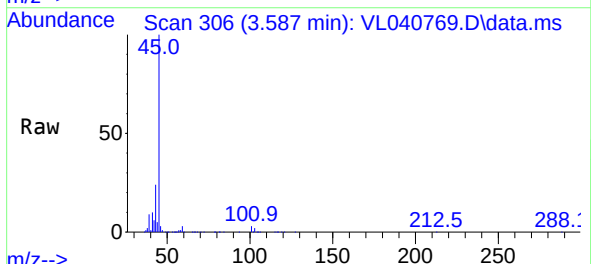
Instrument :
MSVOA_L
ClientSampleId :
IA3

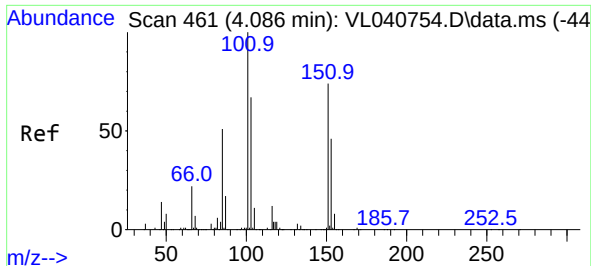
Tgt Ion: 43 Resp: 53083
Ion Ratio Lower Upper
43 100
57 51.1 40.0 60.0



#11
Trichlorofluoromethane
Concen: 0.236 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 101 Resp: 29288
Ion Ratio Lower Upper
101 100
103 66.5 52.2 78.2

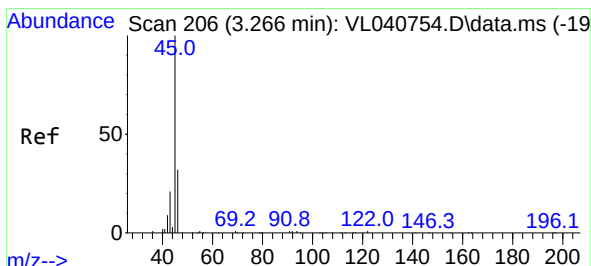
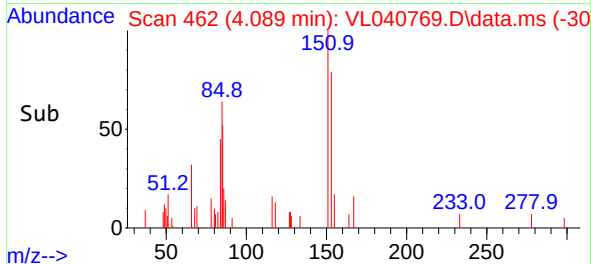
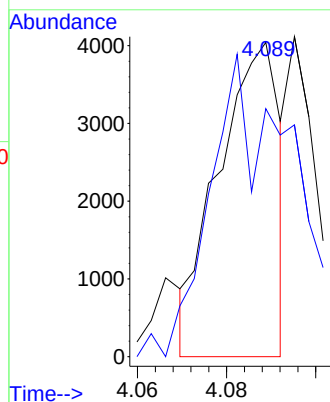
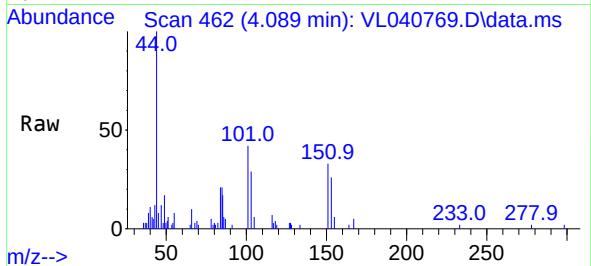




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 4.089 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

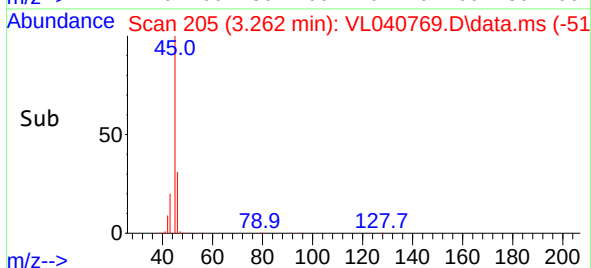
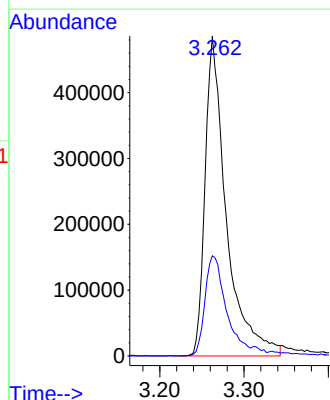
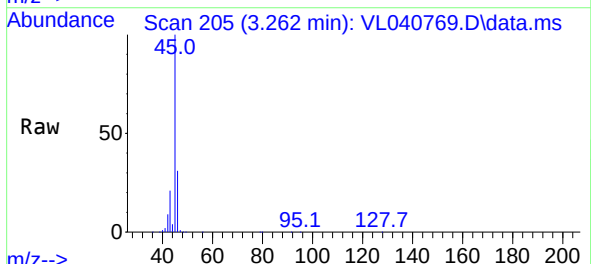
Instrument :
MSVOA_L
ClientSampleId :
IA3

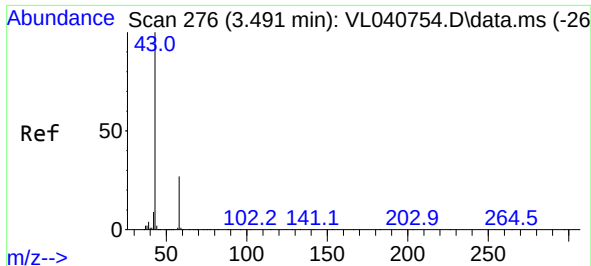
Tgt Ion:101 Resp: 3850
Ion Ratio Lower Upper
101 100
151 145.2 58.1 87.1#



#13
Ethanol
Concen: 75.824 ppbv
RT: 3.262 min Scan# 205
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 45 Resp: 854401
Ion Ratio Lower Upper
45 100
46 34.8 14.6 58.2

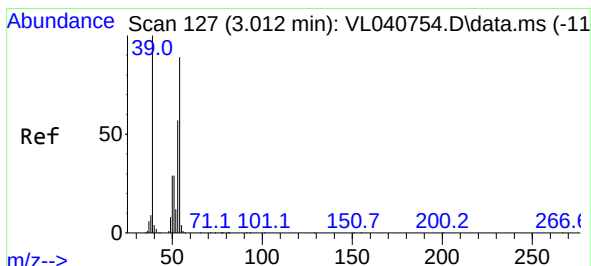
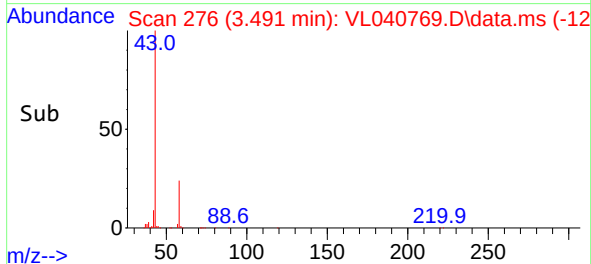
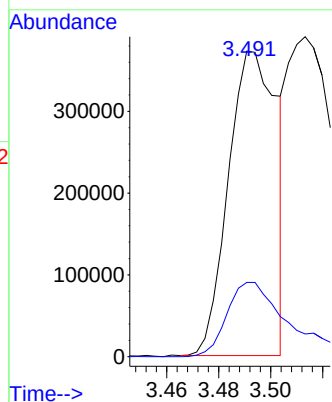
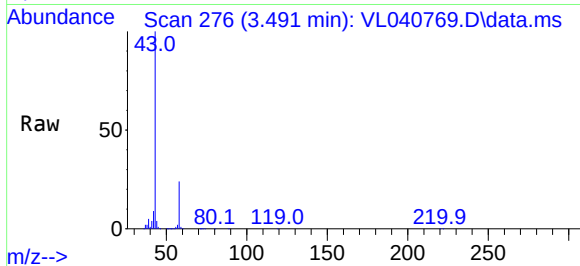




#15
Acetone
Concen: 5.108 ppbv
RT: 3.491 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

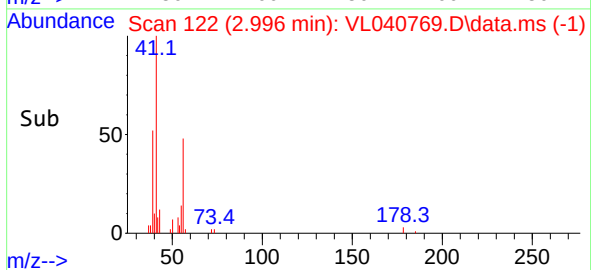
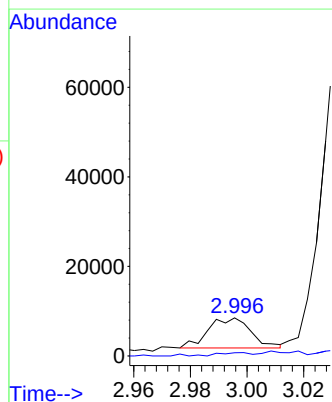
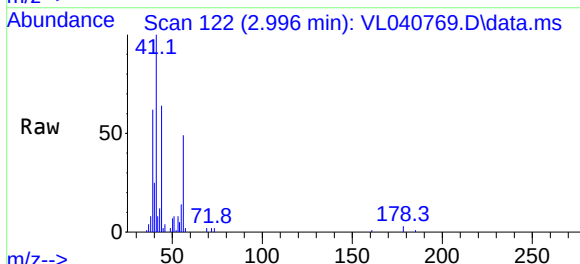
Instrument :
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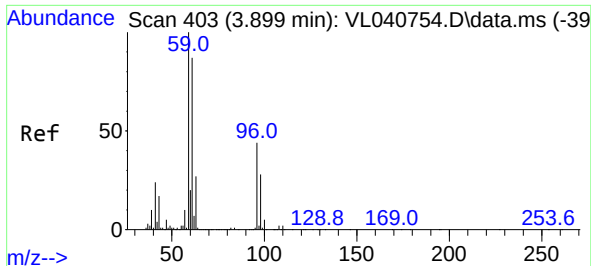
Tgt Ion: 43 Resp: 482925
Ion Ratio Lower Upper
43 100
58 32.5 21.6 32.4#



#16
1,3-Butadiene
Concen: 0.143 ppbv
RT: 2.996 min Scan# 122
Delta R.T. -0.016 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 39 Resp: 7086
Ion Ratio Lower Upper
39 100
54 0.0 63.0 94.6#

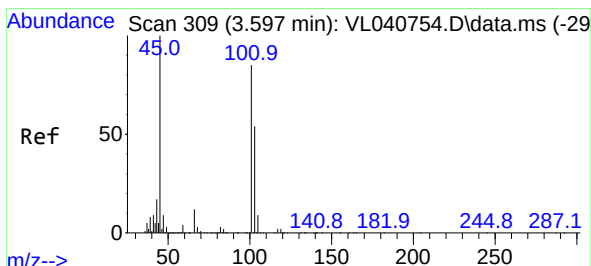
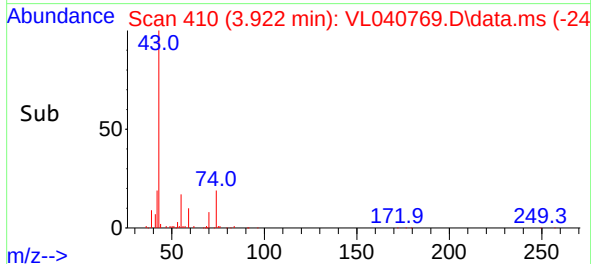
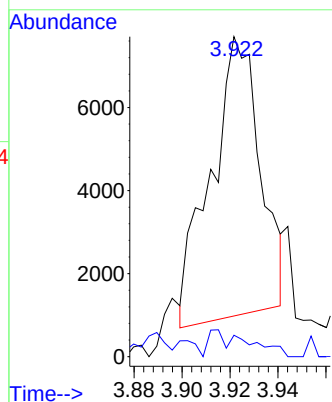
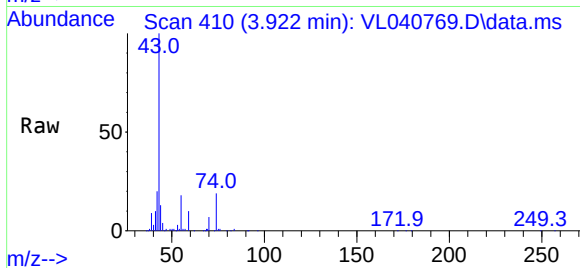




#17
tert-Butyl alcohol
Concen: 0.100 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.022 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

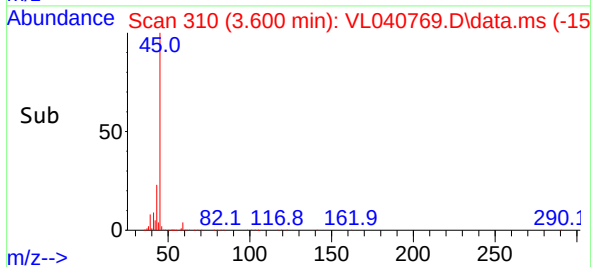
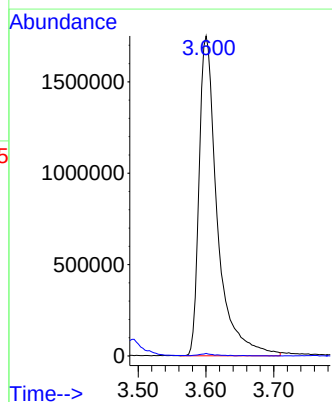
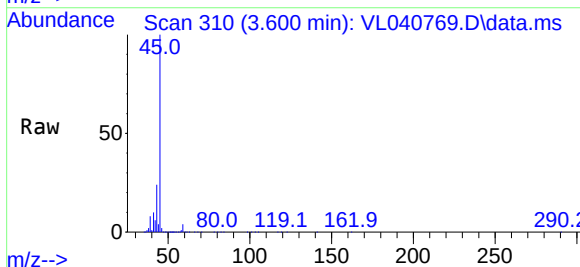
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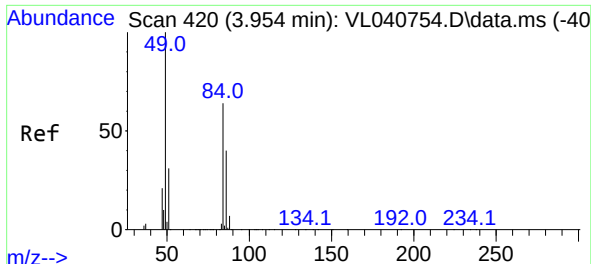
Tgt Ion: 59 Resp: 9648
Ion Ratio Lower Upper
59 100
57 696.5 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 53.725 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 45 Resp: 3269596
Ion Ratio Lower Upper
45 100
58 0.9 30.3 45.5#



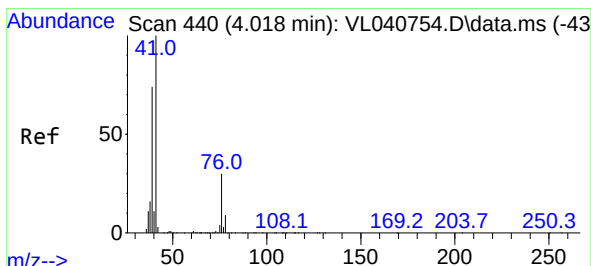
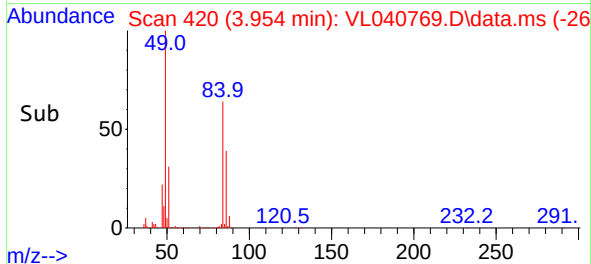
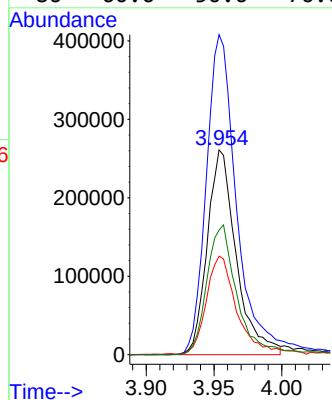
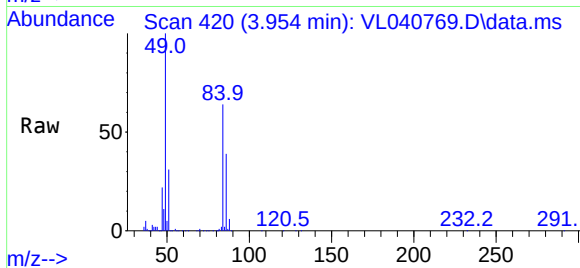


#20
Methylene Chloride
Concen: 9.879 ppbv
RT: 3.954 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 84 Resp: 389014

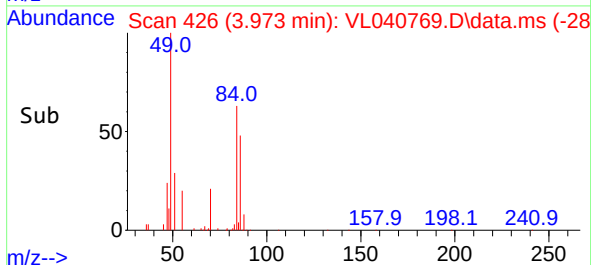
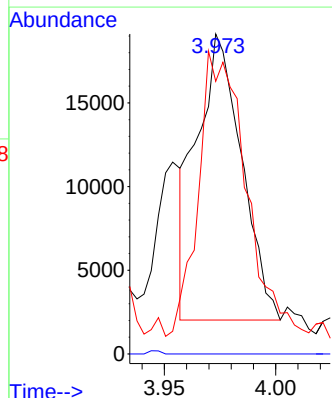
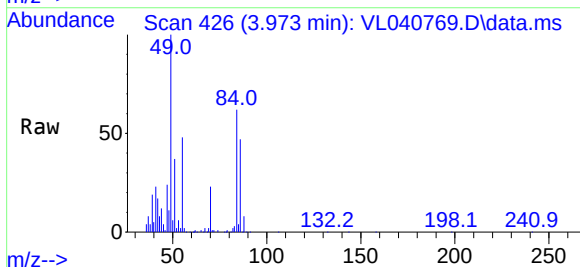
Ion	Ratio	Lower	Upper
84	100		
49	155.9	125.6	188.4
51	47.9	38.9	58.3
86	60.6	50.6	76.0

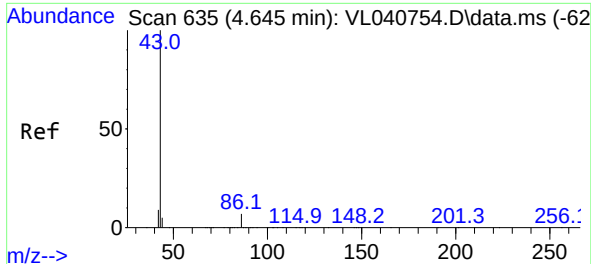


#21
Allyl Chloride
Concen: 0.385 ppbv
RT: 3.973 min Scan# 426
Delta R.T. -0.045 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 41 Resp: 23995

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.1	36.1#
39	119.0	63.8	95.6#





#23

Vinyl Acetate

Concen: 0.660 ppbv

RT: 4.623 min Scan# 61

Delta R.T. -0.023 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 43 Resp: 79513

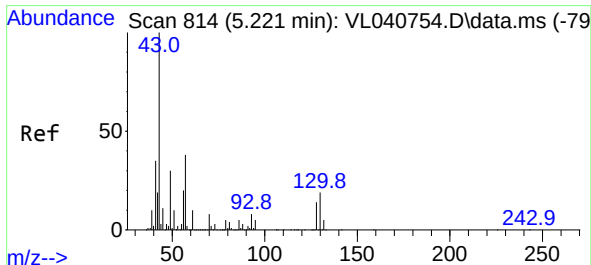
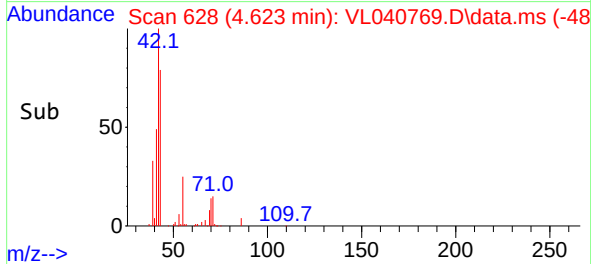
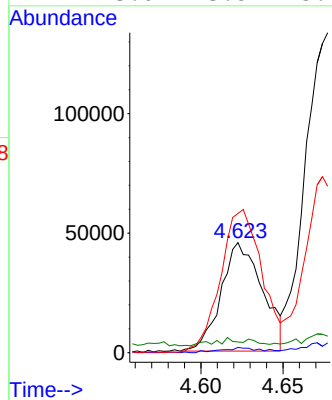
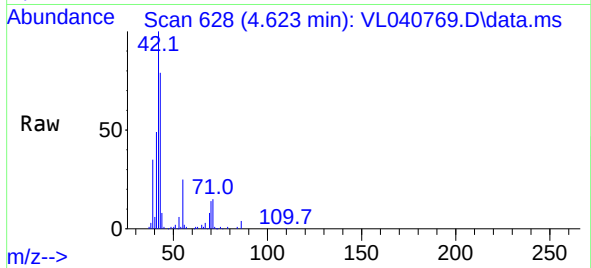
Ion Ratio Lower Upper

43 100

86 4.9 4.9 7.3

42 127.9 7.8 11.6#

44 3.6 3.8 5.6#



#25

Ethyl Acetate

Concen: 1.689 ppbv

RT: 5.227 min Scan# 816

Delta R.T. 0.006 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

Tgt Ion: 43 Resp: 349848

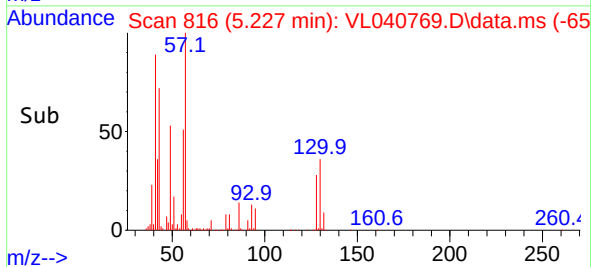
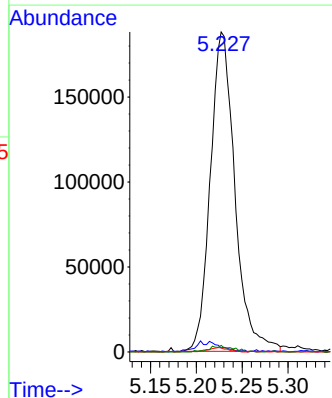
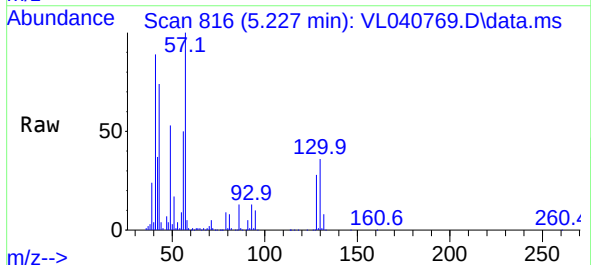
Ion Ratio Lower Upper

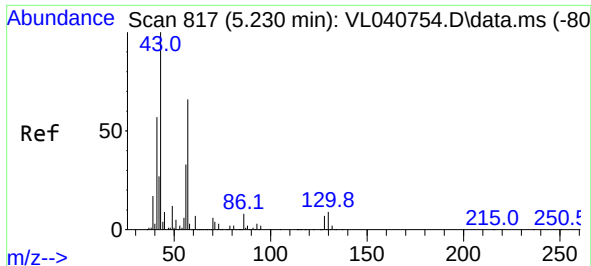
43 100

45 3.7 8.2 12.4#

61 1.3 8.2 12.2#

70 1.9 5.8 8.6#

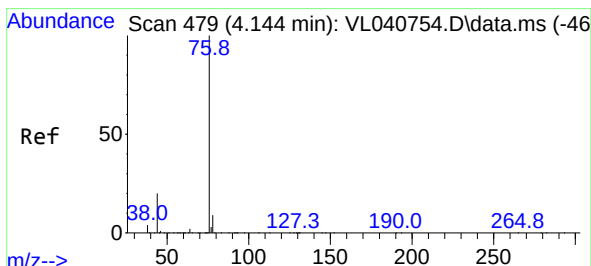
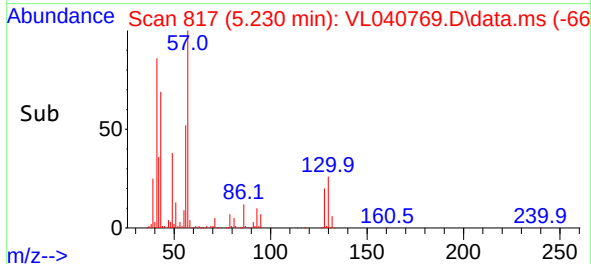
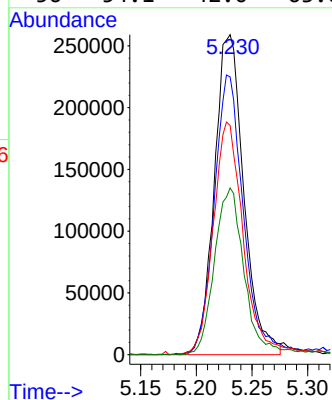
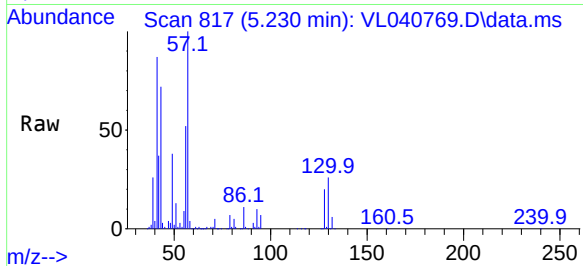




#26
Hexane
Concen: 5.020 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

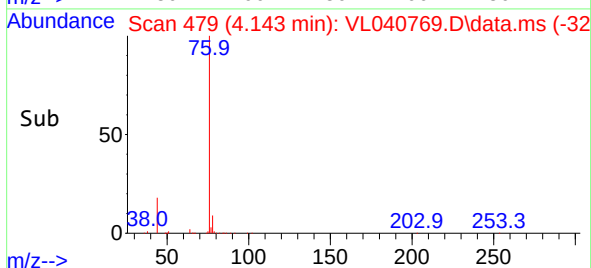
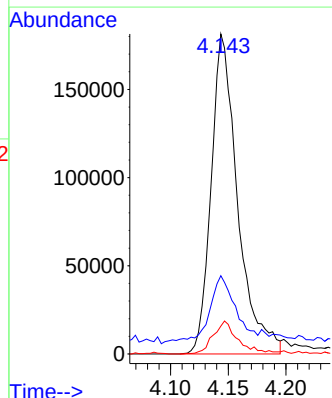
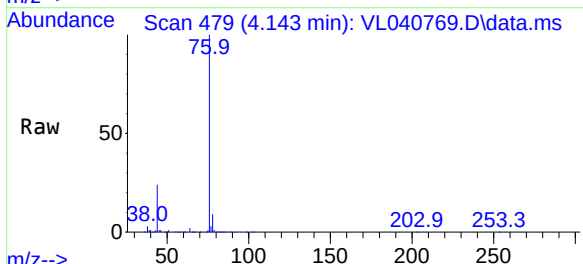
Instrument :
MSVOA_L
ClientSampleId :
IA3

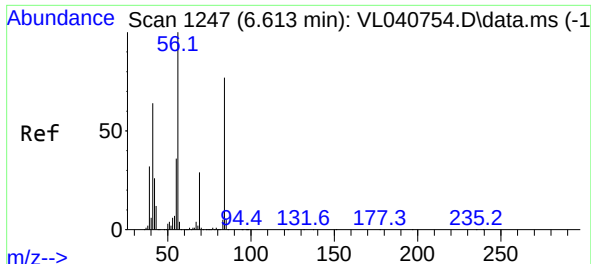
Tgt Ion: 57 Resp: 475199
Ion Ratio Lower Upper
57 100
41 89.3 71.4 107.2
43 74.9 182.3 273.5#
56 54.1 42.0 63.0



#27
Carbon Disulfide
Concen: 2.777 ppbv
RT: 4.143 min Scan# 479
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 76 Resp: 290060
Ion Ratio Lower Upper
76 100
44 30.6 16.6 25.0#
78 10.6 7.8 11.6

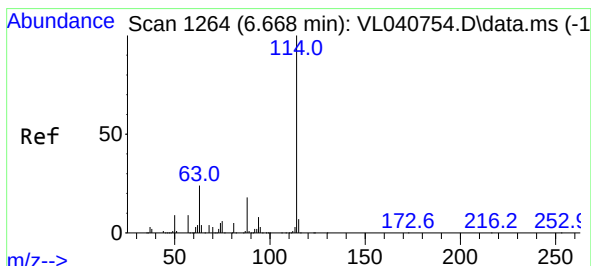
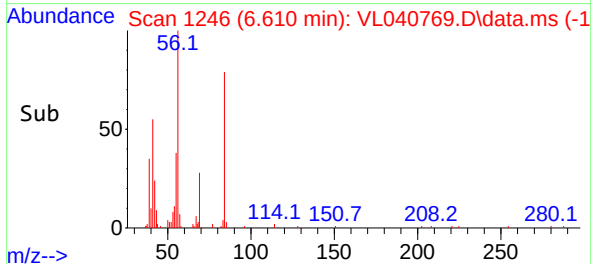
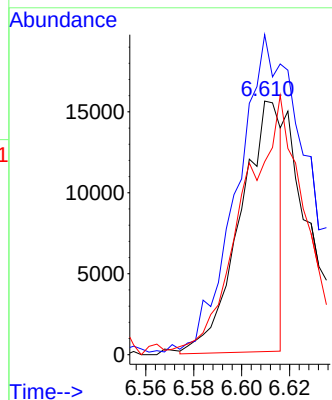
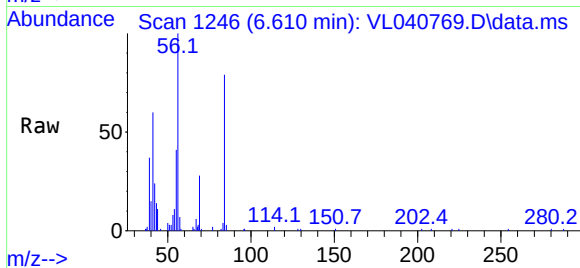




#30
Cyclohexane
Concen: 0.227 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

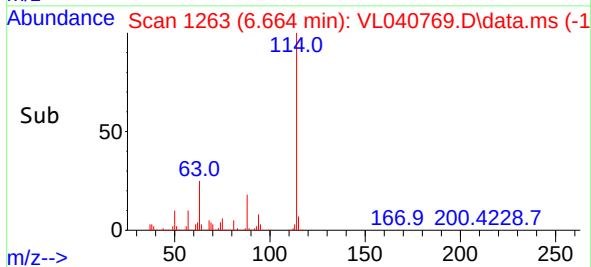
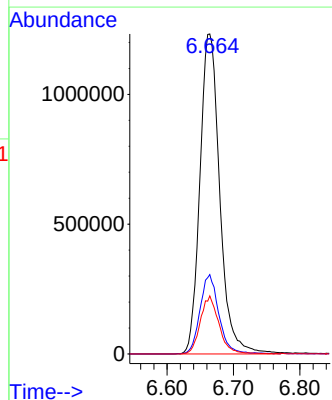
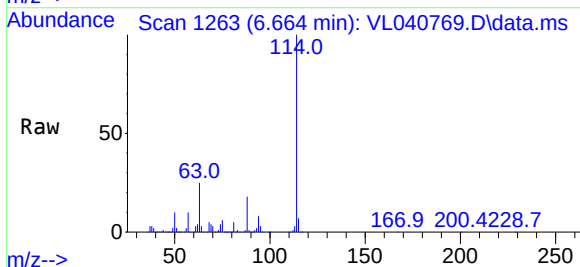
Instrument :
MSVOA_L
ClientSampleId :
IA3

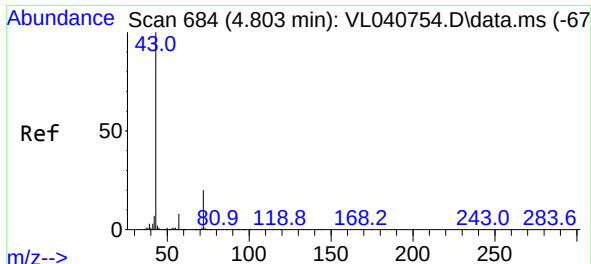
Tgt Ion: 84 Resp: 18285
Ion Ratio Lower Upper
84 100
56 217.1 110.3 165.5#
41 0.0 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 114 Resp: 2565934
Ion Ratio Lower Upper
114 100
63 23.8 19.8 29.6
88 17.1 14.2 21.2

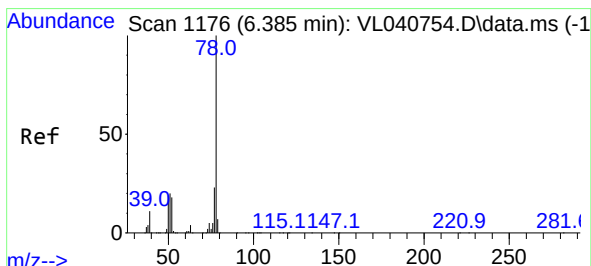
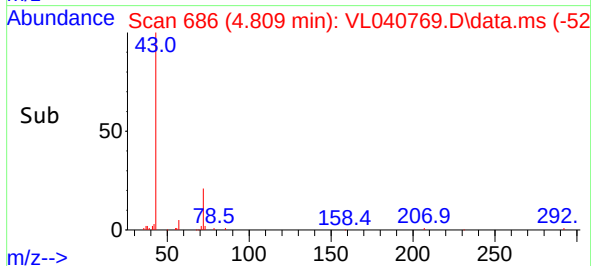
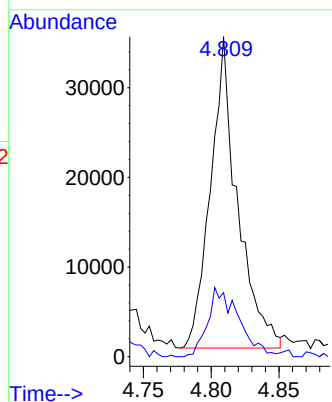
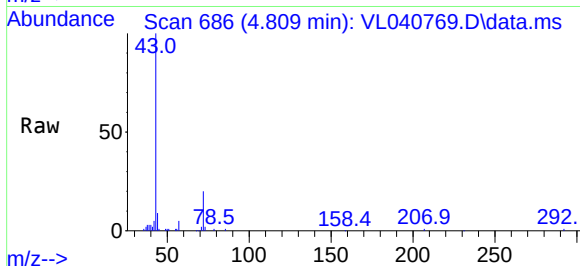




#34
2-Butanone
Concen: 0.414 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

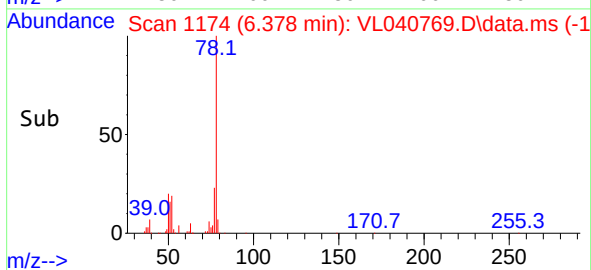
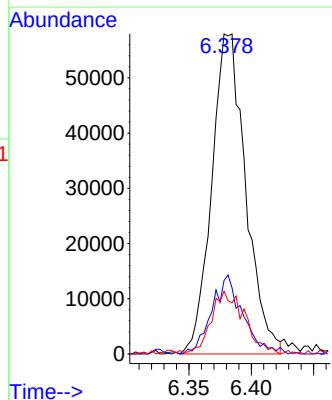
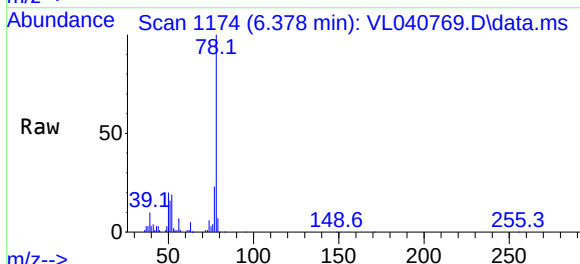
Instrument :
MSVOA_L
ClientSampleId :
IA3

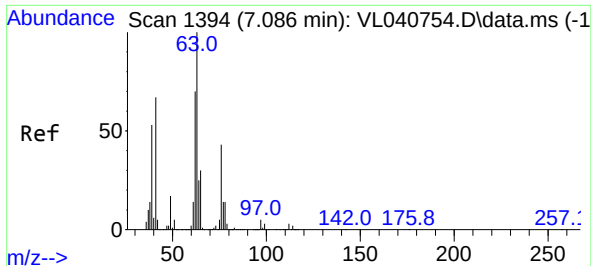
Tgt Ion: 43 Resp: 48093
Ion Ratio Lower Upper
43 100
72 26.1 16.8 25.2#



#36
Benzene
Concen: 0.558 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 78 Resp: 110056
Ion Ratio Lower Upper
78 100
77 22.9 18.4 27.6
50 19.5 15.0 22.4





#39

1,2-Dichloropropane

Concen: 7.750 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

Instrument :

MSVOA_L

ClientSampleId :

IA3

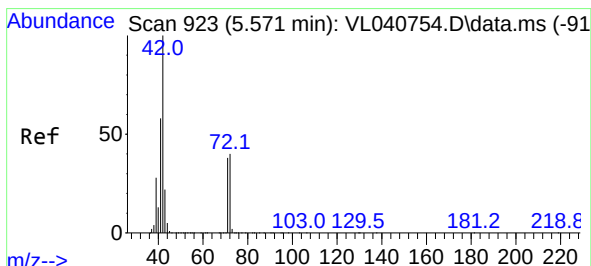
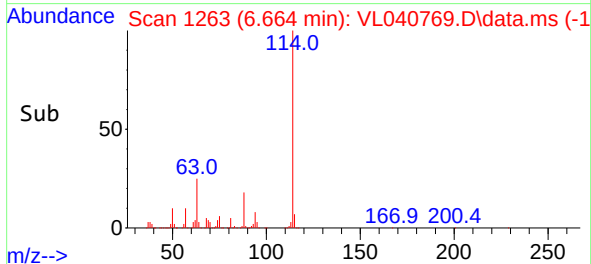
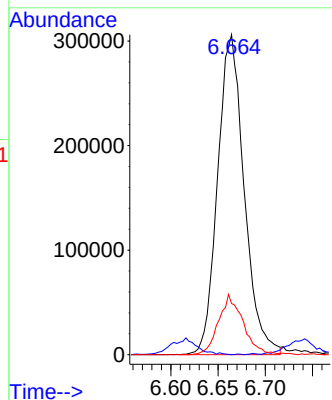
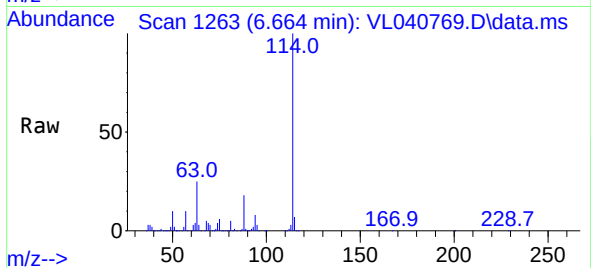
Tgt Ion: 63 Resp: 597605

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.0 55.7 83.5#



#41

Tetrahydrofuran

Concen: 0.206 ppbv

RT: 5.832 min Scan# 1004

Delta R.T. 0.260 min

Lab File: VL040769.D

Acq: 11 Oct 2023 23:53

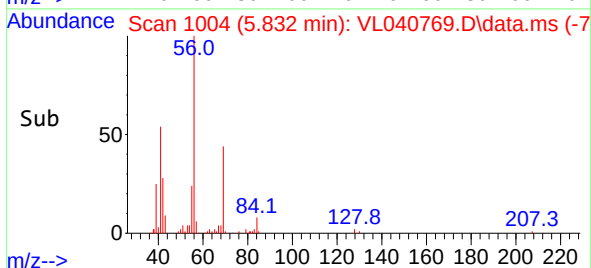
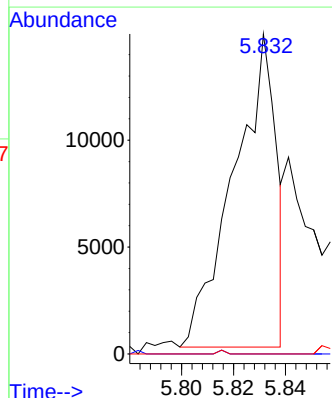
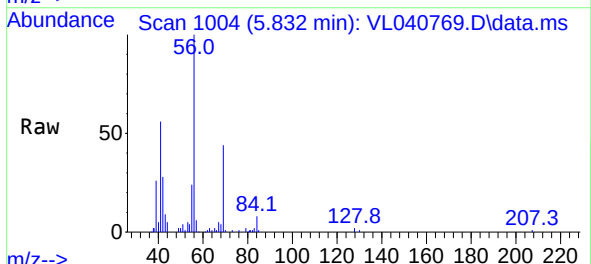
Tgt Ion: 42 Resp: 16567

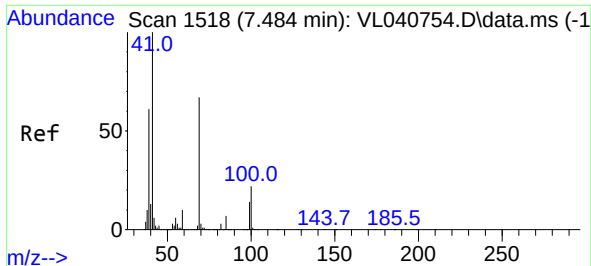
Ion Ratio Lower Upper

42 100

72 0.0 31.1 46.7#

71 0.0 29.7 44.5#

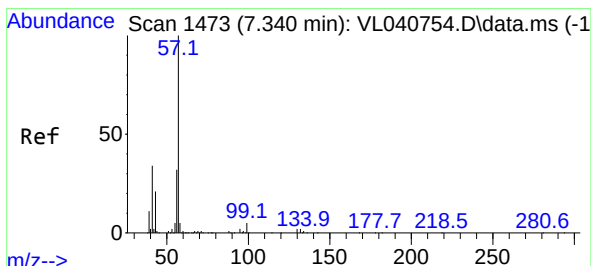
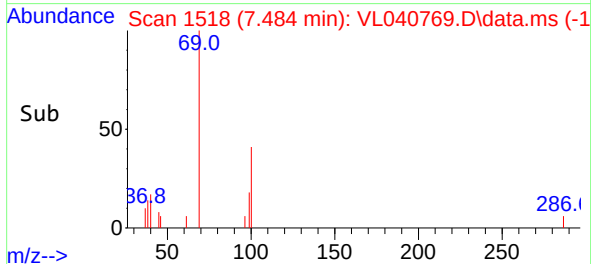
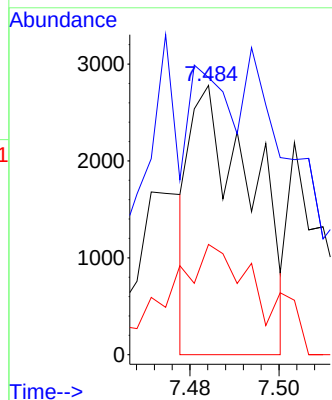
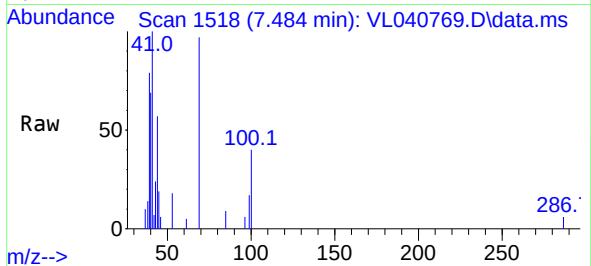




#43
Methyl Methacrylate
Concen: 0.034 ppbv
RT: 7.484 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

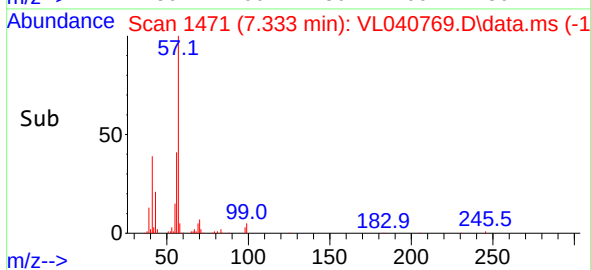
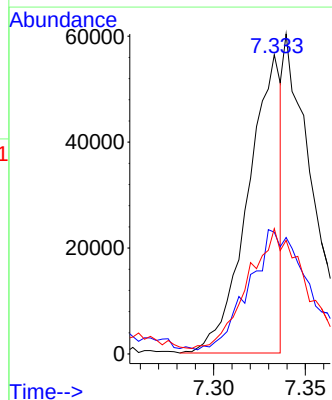
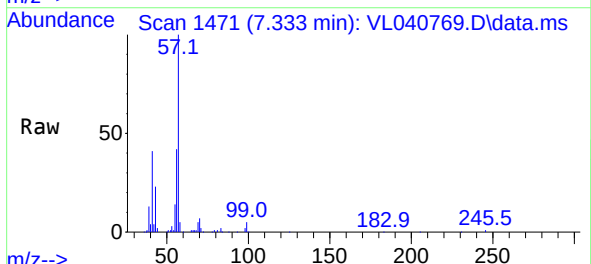
Instrument :
MSVOA_L
ClientSampleId :
IA3

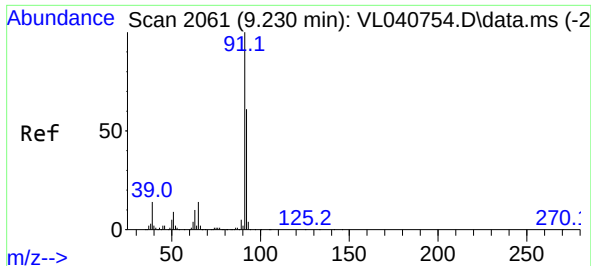
Tgt Ion: 69 Resp: 2648
Ion Ratio Lower Upper
69 100
41 0.0 120.6 181.0#
100 64.5 27.1 40.7#



#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 57 Resp: 70808
Ion Ratio Lower Upper
57 100
41 90.8 27.4 41.0#
56 84.1 25.0 37.6#

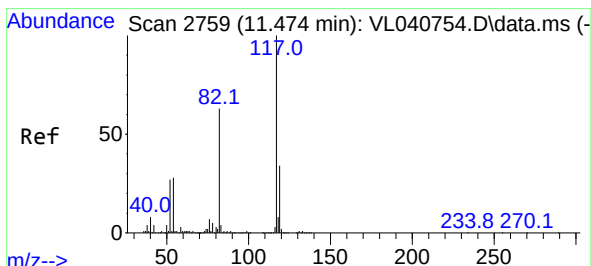
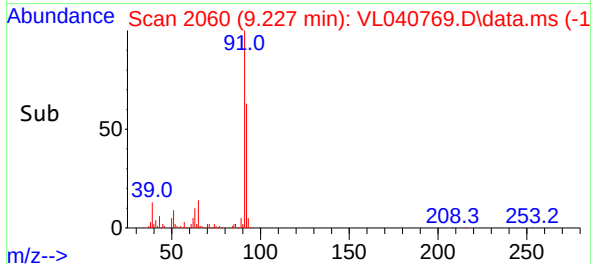
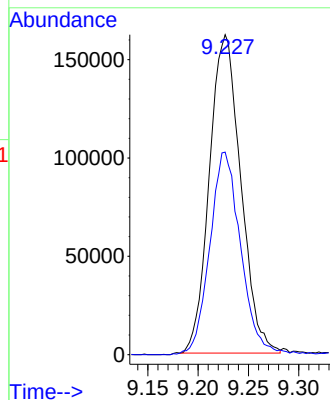
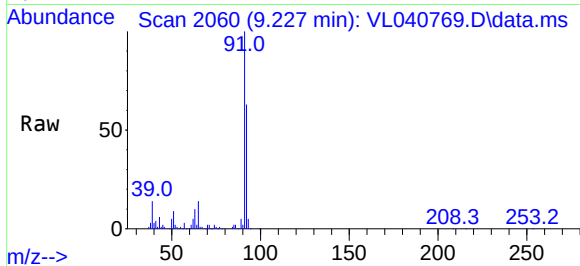




#53
Toluene
Concen: 1.494 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

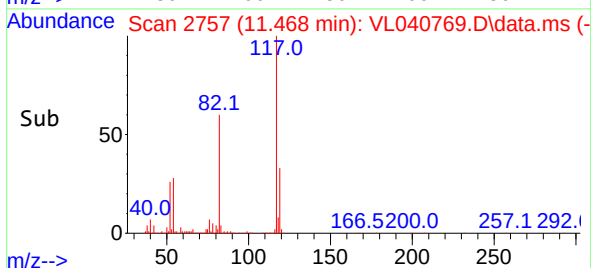
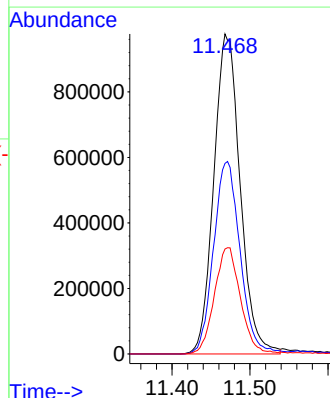
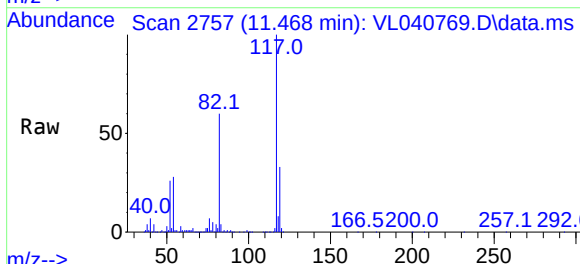
Instrument :
MSVOA_L
ClientSampleId :
IA3

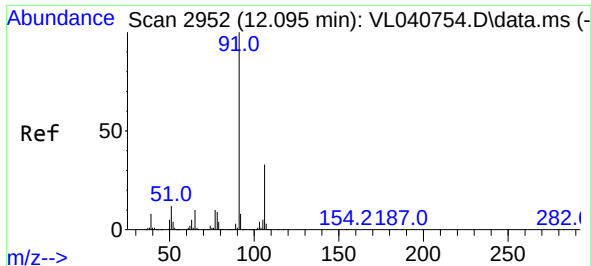
Tgt Ion: 91 Resp: 350811
Ion Ratio Lower Upper
91 100
92 63.2 50.2 75.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.007 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 117 Resp: 2296764
Ion Ratio Lower Upper
117 100
82 60.6 46.6 70.0
119 33.6 26.0 39.0

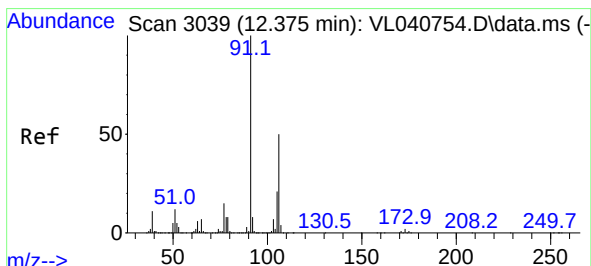
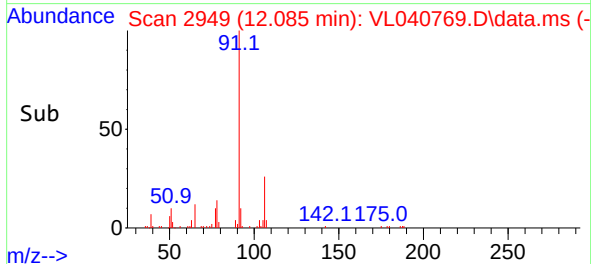
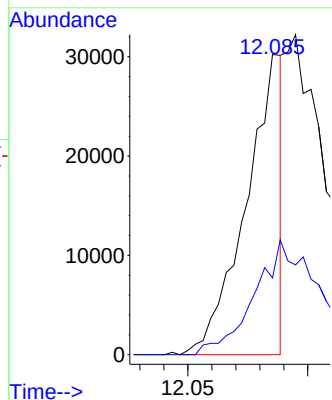
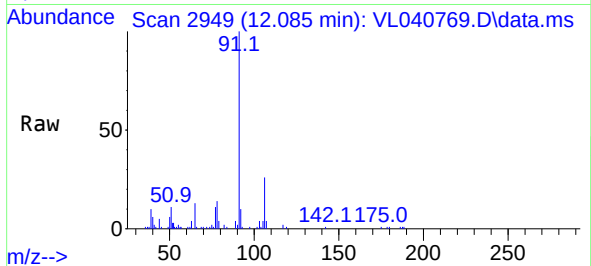




#58
Ethyl Benzene
Concen: 0.110 ppbv
RT: 12.085 min Scan# 2952
Delta R.T. -0.010 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

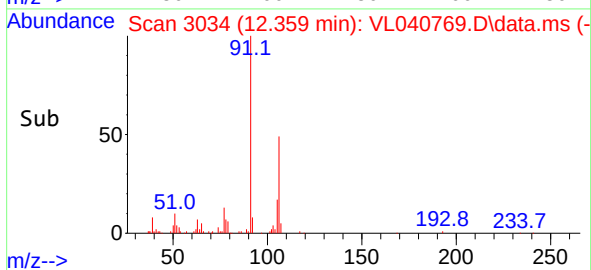
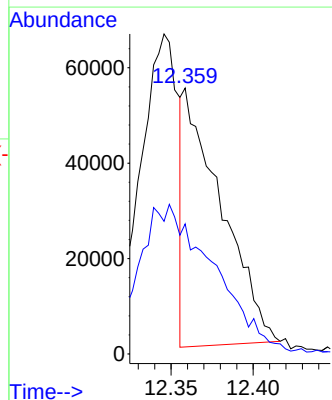
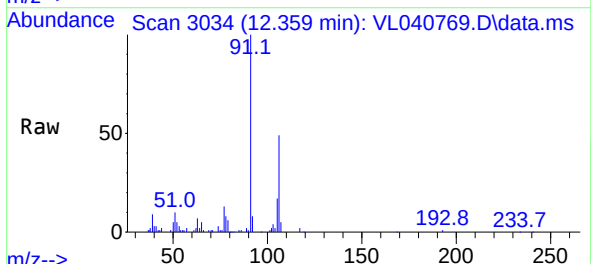
Instrument :
MSVOA_L
ClientSampleId :
IA3

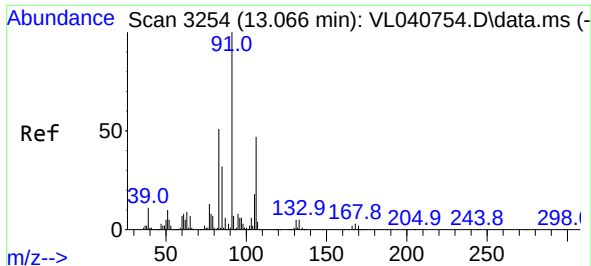
Tgt Ion: 91 Resp: 31788
Ion Ratio Lower Upper
91 100
106 25.6 26.7 40.1#



#59
m/p-Xylene
Concen: 0.365 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. -0.016 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 91 Resp: 86851
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#

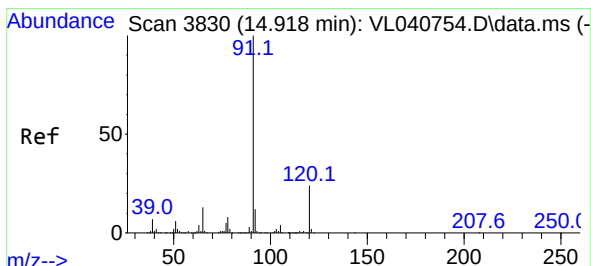
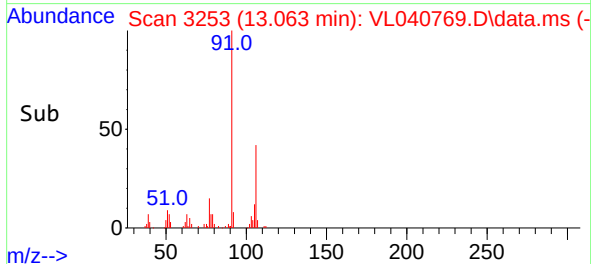
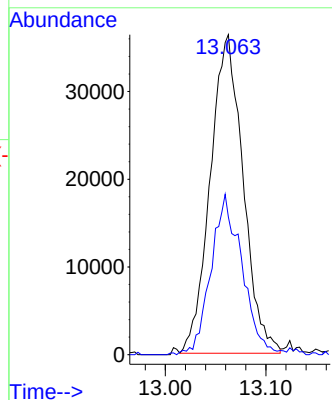
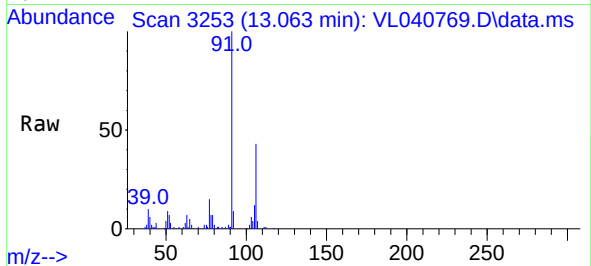




#60
o-Xylene
Concen: 0.364 ppbv
RT: 13.063 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

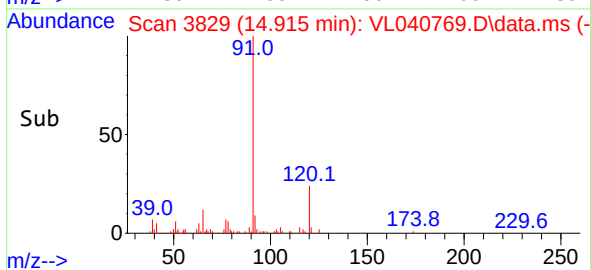
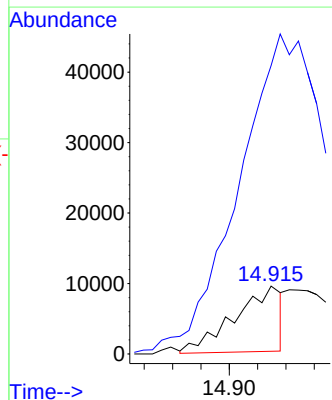
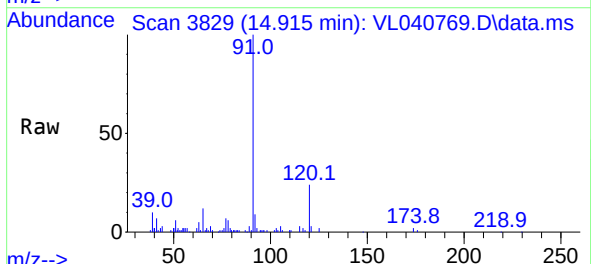
Instrument :
MSVOA_L
ClientSampleId :
IA3

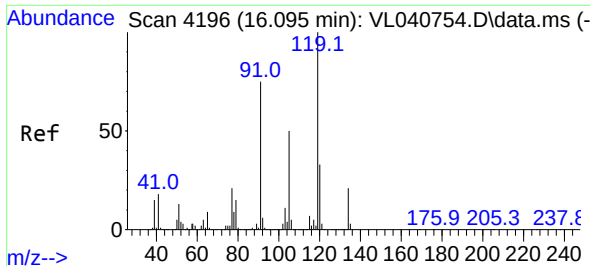
Tgt Ion: 91 Resp: 82458
Ion Ratio Lower Upper
91 100
106 48.4 23.5 70.5



#64
n-propylbenzene
Concen: 0.114 ppbv
RT: 14.915 min Scan# 3829
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 120 Resp: 10682
Ion Ratio Lower Upper
120 100
91 0.0 345.9 518.9#

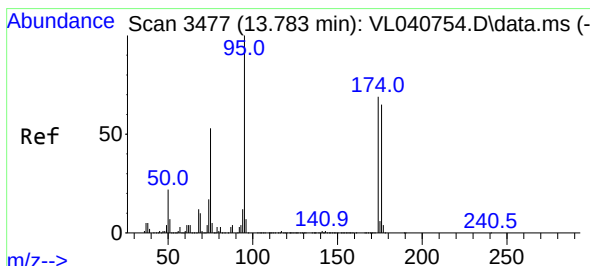
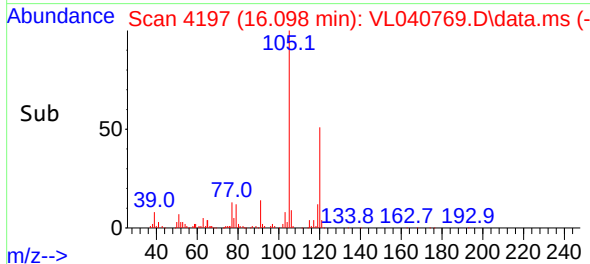
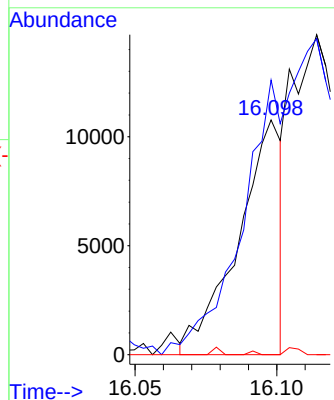
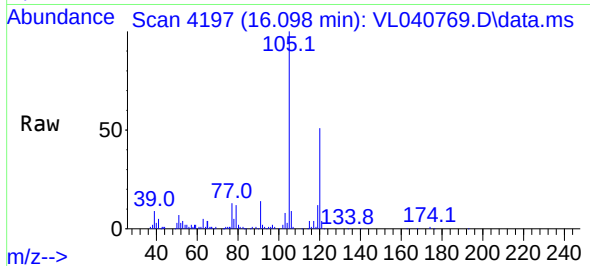




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 16.098 min Scan# 4196
Delta R.T. 0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

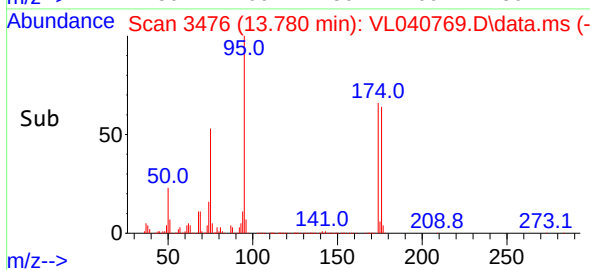
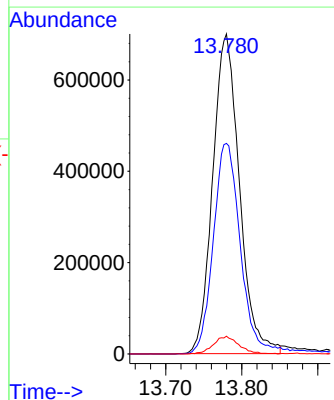
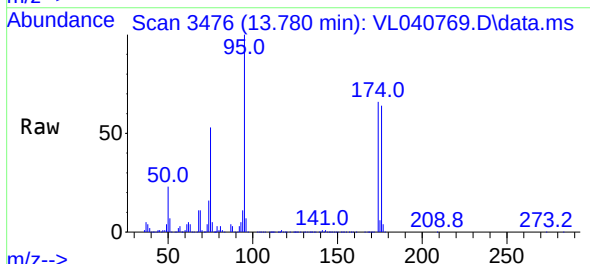
Instrument :
MSVOA_L
ClientSampleId :
IA3

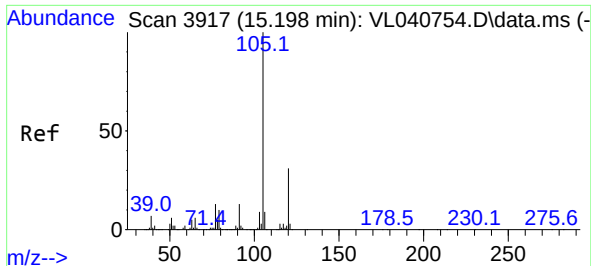
Tgt Ion:119 Resp: 11537
Ion Ratio Lower Upper
119 100
91 0.0 62.2 93.2#
134 0.0 16.1 24.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.120 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

Tgt Ion: 95 Resp: 1710333
Ion Ratio Lower Upper
95 100
174 68.4 54.7 82.1
175 5.3 4.2 6.4

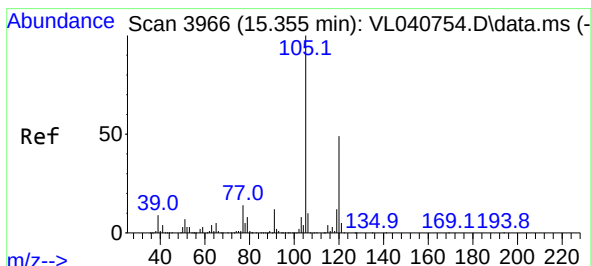
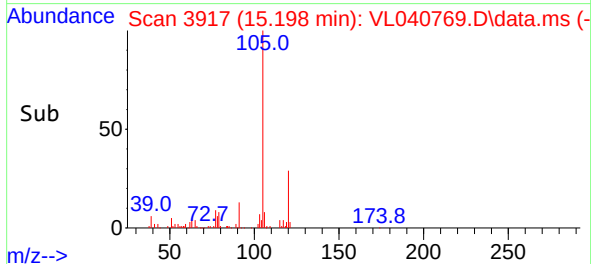
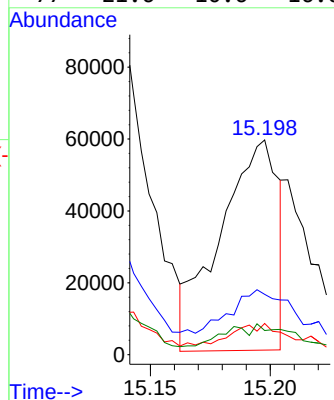
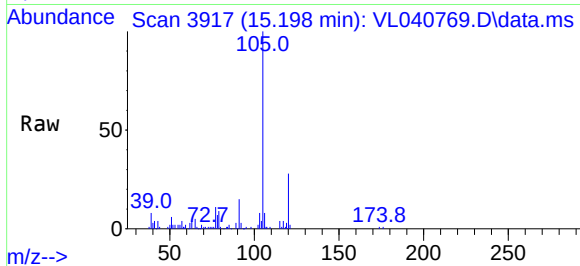




#72
4-Ethyltoluene
Concen: 0.370 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.000 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

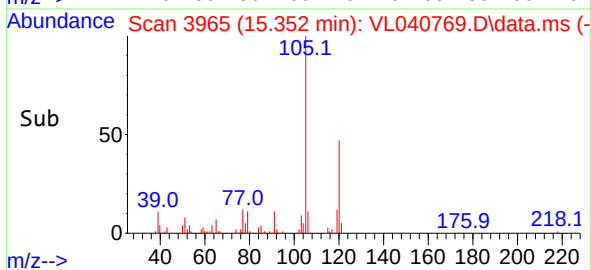
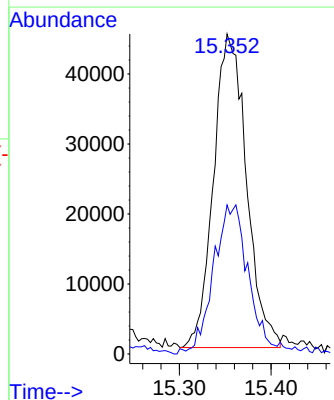
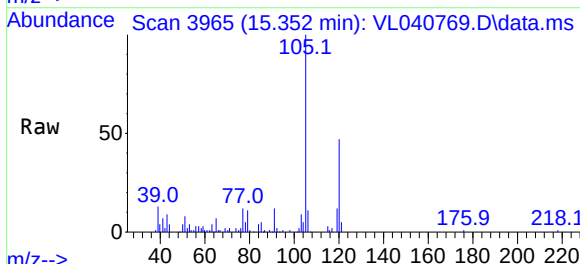
Instrument :
MSVOA_L
ClientSampleId :
IA3

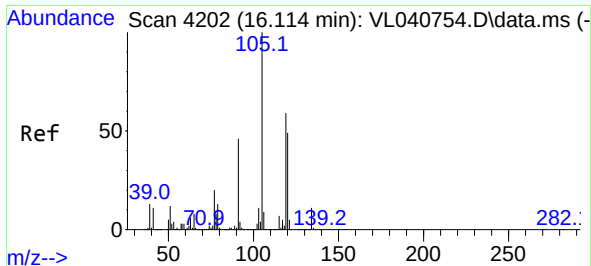
Tgt Ion:105 Resp: 98384
Ion Ratio Lower Upper
105 100
120 47.9 25.0 37.4#
91 21.1 9.8 14.8#
77 21.6 10.6 16.0#



#73
1,3,5-Trimethylbenzene
Concen: 0.478 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. -0.003 min
Lab File: VL040769.D
Acq: 11 Oct 2023 23:53

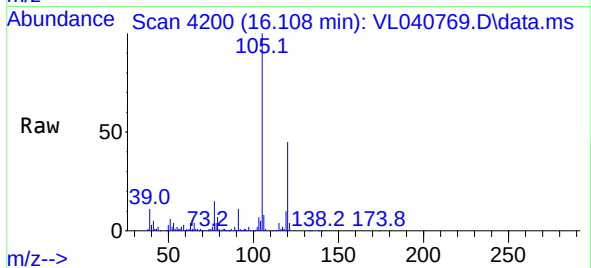
Tgt Ion:105 Resp: 111712
Ion Ratio Lower Upper
105 100
120 45.8 39.4 59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.760 ppbv
 RT: 16.108 min Scan# 41
 Delta R.T. -0.007 min
 Lab File: VL040769.D
 Acq: 11 Oct 2023 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion:105 Resp: 194138

Ion	Ratio	Lower	Upper
105	100		
120	45.3	39.4	59.2
91	10.9	38.6	58.0#
77	14.5	16.6	25.0#

