

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040601.D
 Acq On : 7 Aug 2023 16:34
 Operator : SY/MD
 Sample : 03907-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Quant Time: Aug 08 01:42:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

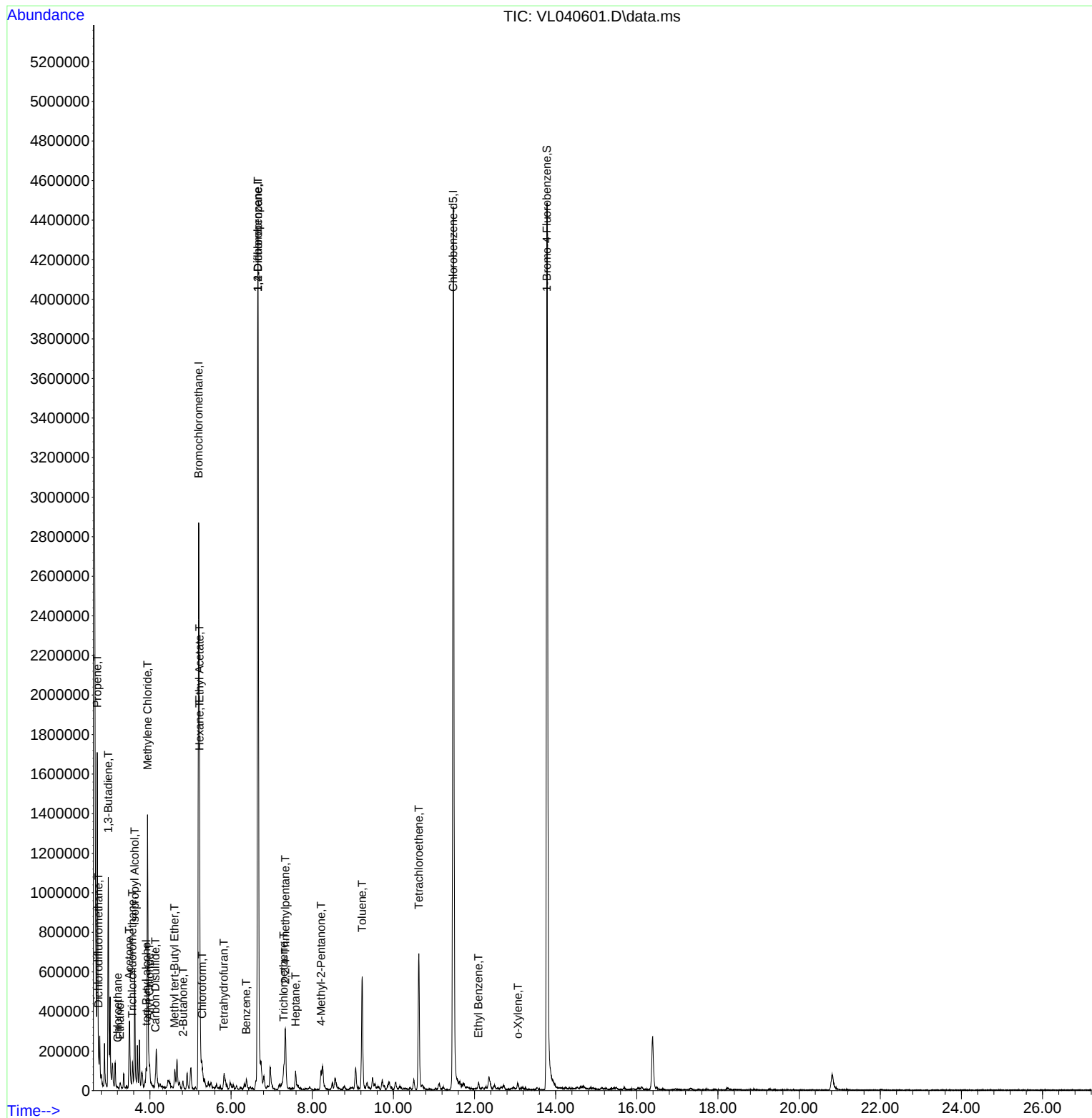
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.201	49	1255171	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3194951	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2829906	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2259868	10.090	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.732	85	7843	0.031	ppbv	91
7) Chloroethane	3.205	64	1149	0.040	ppbv #	74
9) Propene	2.700	41	636927	9.351	ppbv	96
10) Heptane	7.590	43	27861	0.185	ppbv	92
11) Trichlorofluoromethane	3.568	101	75112	0.371	ppbv	87
13) Ethanol	3.259	45	11493	0.776	ppbv #	11
15) Acetone	3.491	43	280004	1.938	ppbv	95
16) 1,3-Butadiene	2.973	39	297370	4.080	ppbv #	27
17) tert-Butyl alcohol	3.909	59	24423	0.163	ppbv #	90
19) Isopropyl Alcohol	3.623	45	67938	0.819	ppbv #	1
20) Methylene Chloride	3.941	84	477051	7.762	ppbv	99
21) Allyl Chloride	3.989	41	6208	0.075	ppbv #	1
25) Ethyl Acetate	5.221	43	256239	0.932	ppbv #	76
26) Hexane	5.224	57	356687	2.791	ppbv #	40
27) Carbon Disulfide	4.134	76	39010	0.260	ppbv #	69
28) Methyl tert-Butyl Ether	4.607	73	12963	0.126	ppbv #	52
29) Chloroform	5.285	83	33765	0.159	ppbv	85
34) 2-Butanone	4.816	43	45972	0.291	ppbv	98
36) Benzene	6.375	78	35802	0.139	ppbv #	93
38) Trichloroethene	7.298	130	12373	0.127	ppbv #	89
39) 1,2-Dichloropropane	6.661	63	811883	8.204	ppbv #	26
41) Tetrahydrofuran	5.822	42	3406	0.037	ppbv #	37
44) 2,2,4-Trimethylpentane	7.336	57	241430	0.584	ppbv #	75
50) 4-Methyl-2-Pentanone	8.217	43	55651	0.243	ppbv	93
52) Tetrachloroethene	10.629	164	155448	1.867	ppbv	97
53) Toluene	9.230	91	337727	1.209	ppbv	99
58) Ethyl Benzene	12.098	91	24598	0.069	ppbv	95
60) o-Xylene	13.073	91	11855	0.039	ppbv #	32

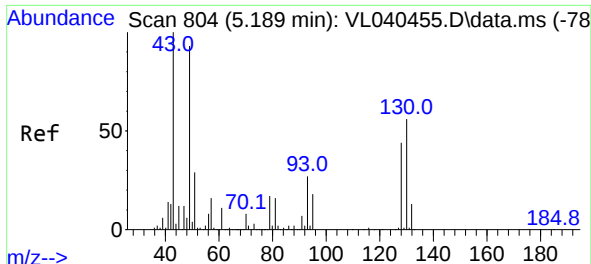
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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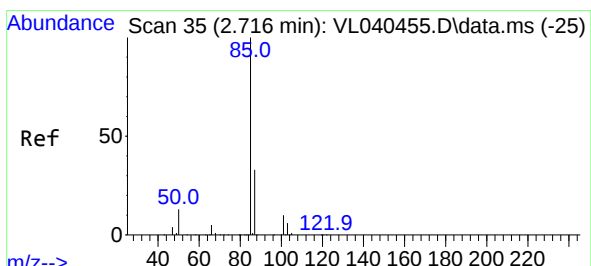
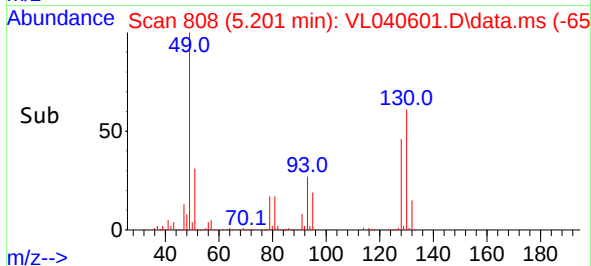
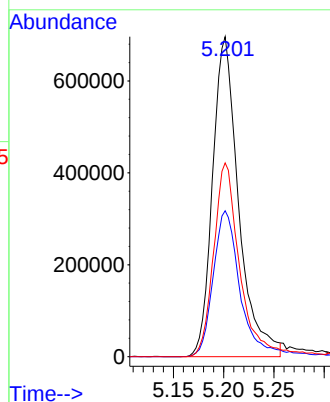
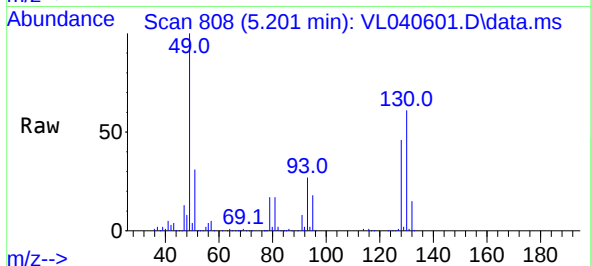




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.001 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

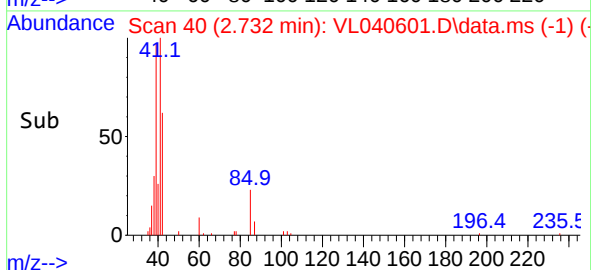
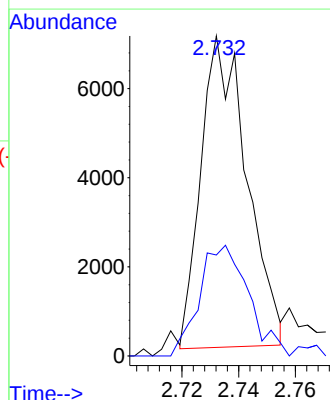
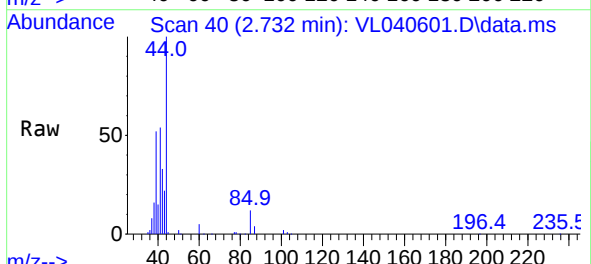
Instrument :
MSVOA_L
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SV-1DL

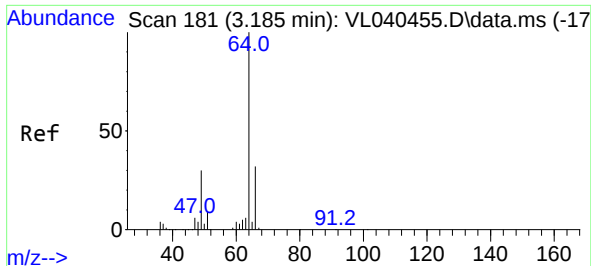
Tgt Ion: 49 Resp: 1255171
Ion Ratio Lower Upper
49 100
128 48.7 25.1 75.4
130 63.0 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 85 Resp: 7843
Ion Ratio Lower Upper
85 100
87 28.3 26.8 40.2

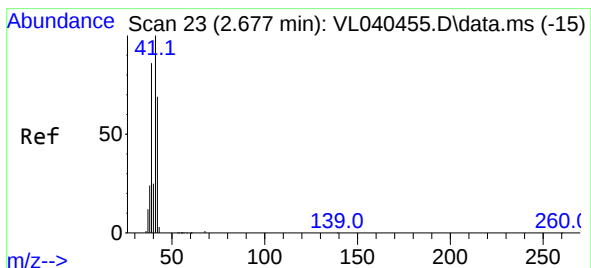
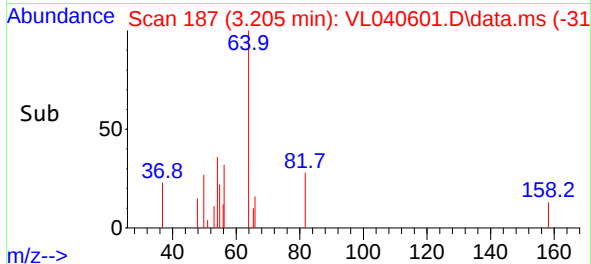
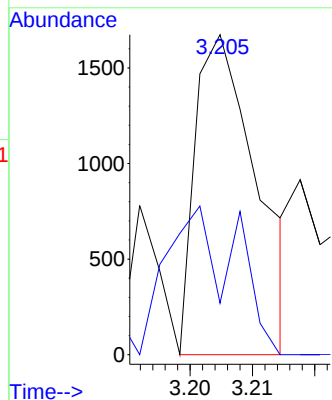
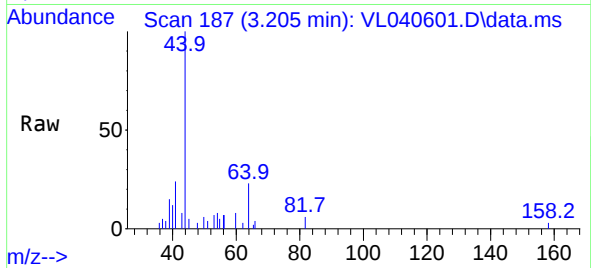




#7
Chloroethane
Concen: 0.040 ppbv
RT: 3.205 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

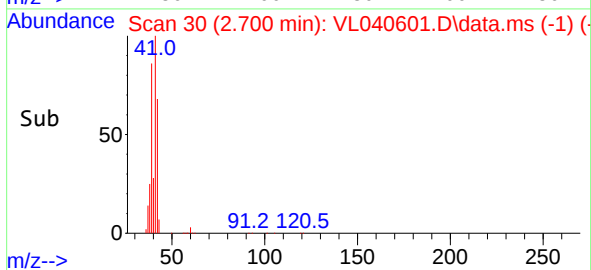
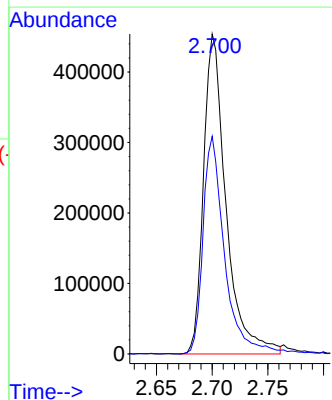
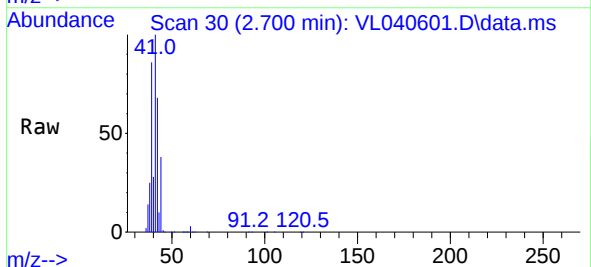
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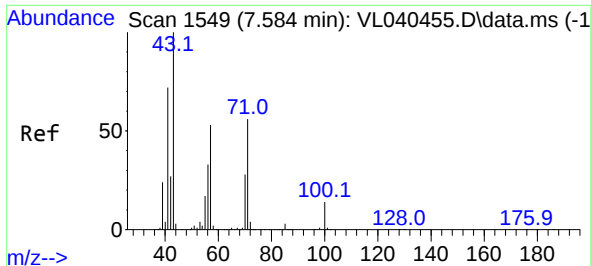
Tgt Ion: 64 Resp: 1149
Ion Ratio Lower Upper
64 100
66 16.1 24.4 36.6#



#9
Propene
Concen: 9.351 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 41 Resp: 636927
Ion Ratio Lower Upper
41 100
42 65.8 55.0 82.6

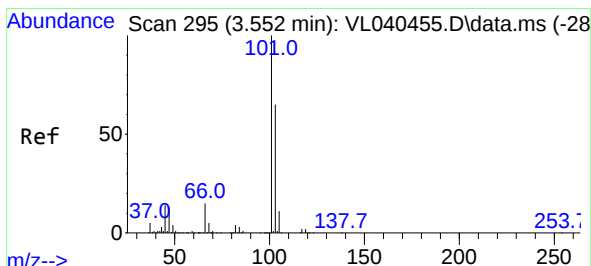
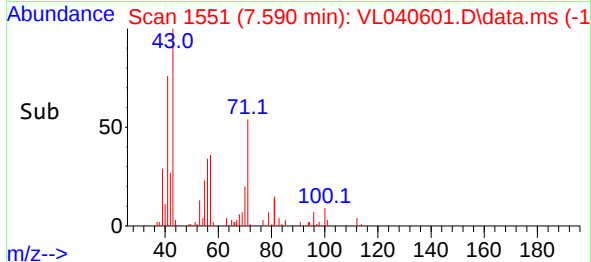
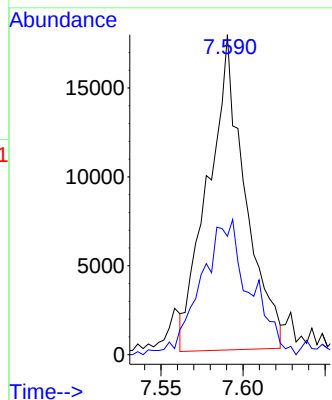
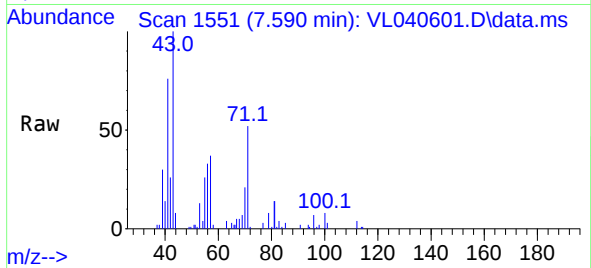




#10
Heptane
Concen: 0.185 ppbv
RT: 7.590 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

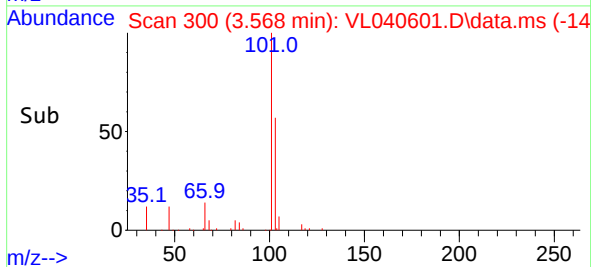
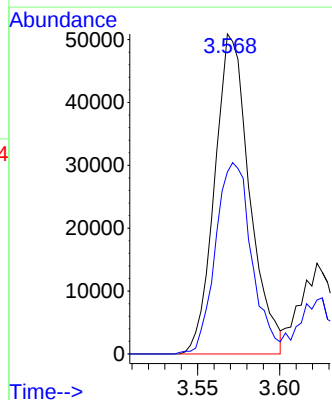
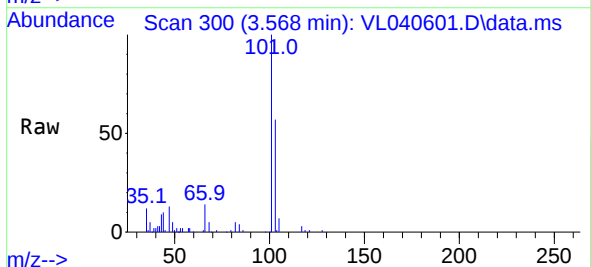
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

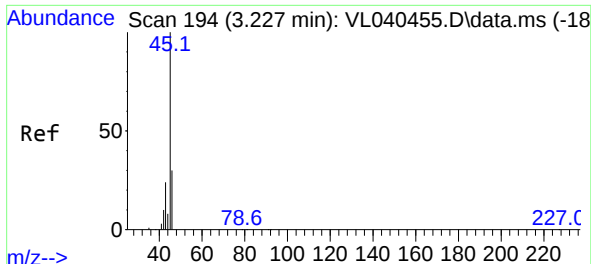
Tgt Ion: 43 Resp: 27861
Ion Ratio Lower Upper
43 100
57 58.8 42.5 63.7



#11
Trichlorofluoromethane
Concen: 0.371 ppbv
RT: 3.568 min Scan# 300
Delta R.T. -0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion:101 Resp: 75112
Ion Ratio Lower Upper
101 100
103 56.3 53.4 80.0

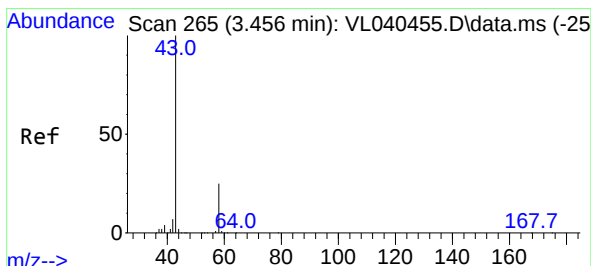
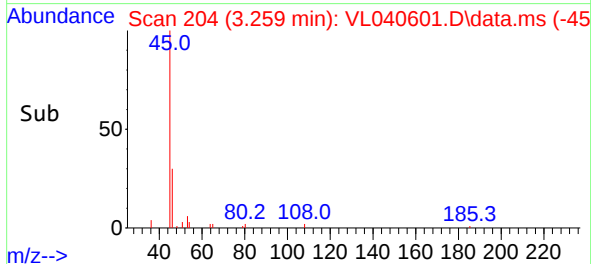
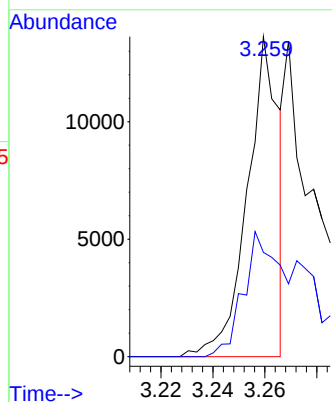
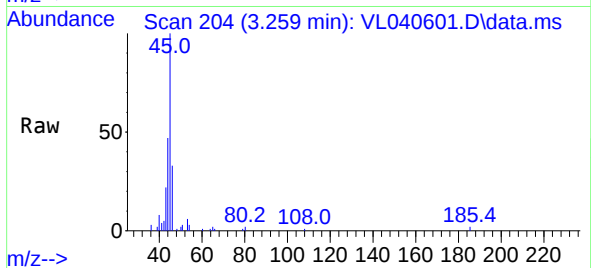




#13
Ethanol
Concen: 0.776 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.013 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

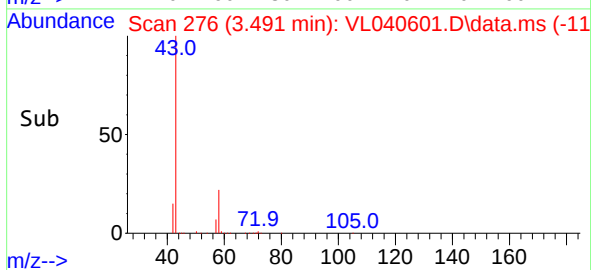
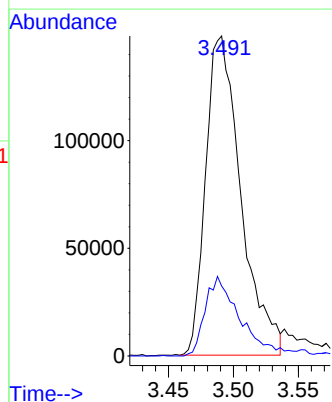
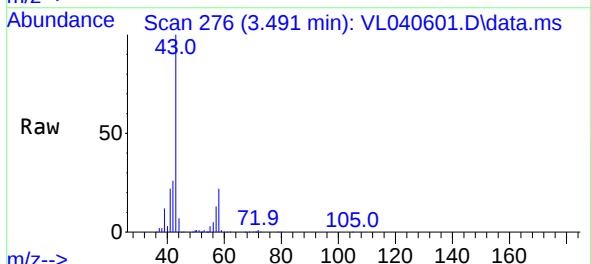
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

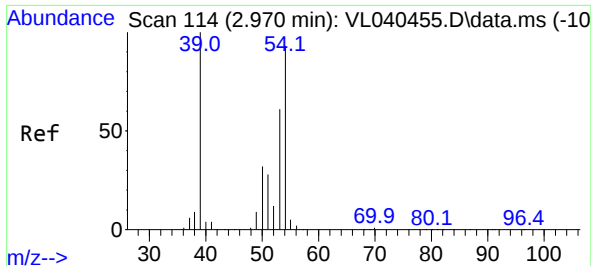
Tgt Ion: 45 Resp: 11493
Ion Ratio Lower Upper
45 100
46 91.9 15.3 61.1#



#15
Acetone
Concen: 1.938 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.016 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 43 Resp: 280004
Ion Ratio Lower Upper
43 100
58 25.8 22.9 34.3





#16

1,3-Butadiene

Concen: 4.080 ppbv

RT: 2.973 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

Instrument :

MSVOA_L

ClientSampleId :

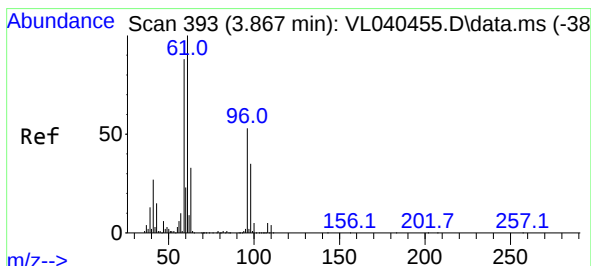
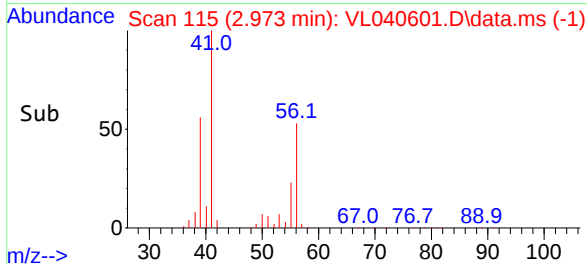
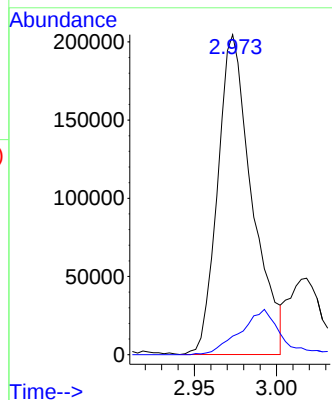
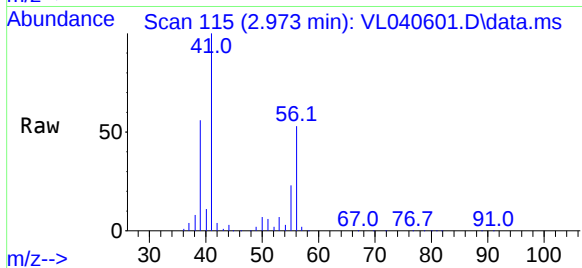
SV-1DL

Tgt Ion: 39 Resp: 297370

Ion Ratio Lower Upper

39 100

54 17.0 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.163 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.026 min

Lab File: VL040601.D

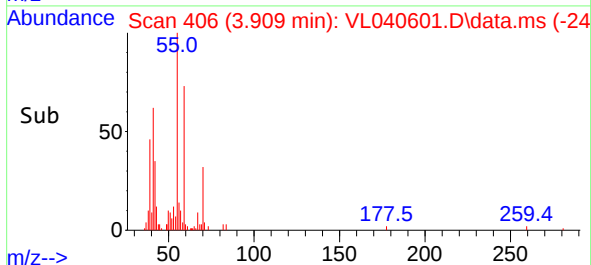
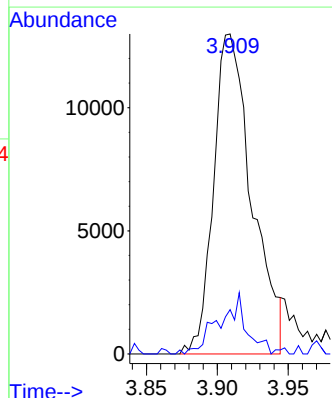
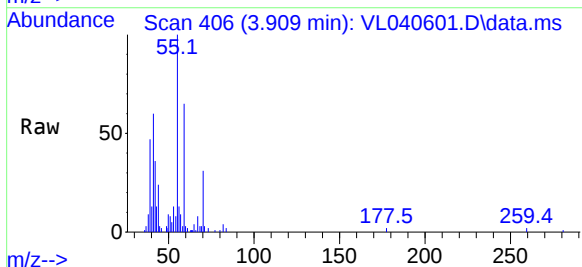
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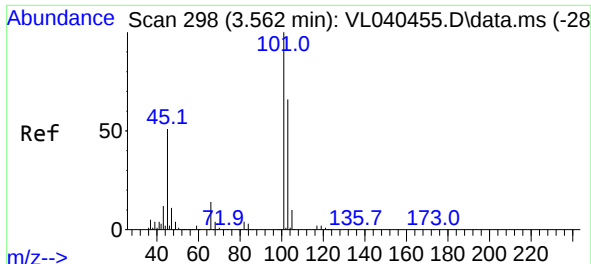
Tgt Ion: 59 Resp: 24423

Ion Ratio Lower Upper

59 100

57 14.8 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.819 ppbv

RT: 3.623 min Scan# 317

Delta R.T. 0.042 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

Instrument :

MSVOA_L

ClientSampleId :

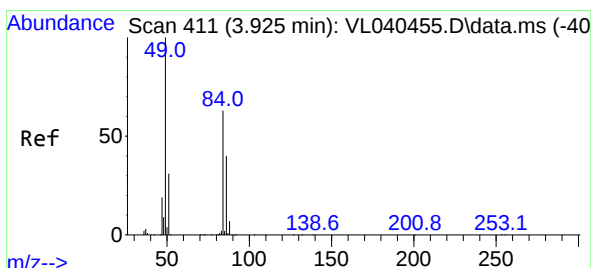
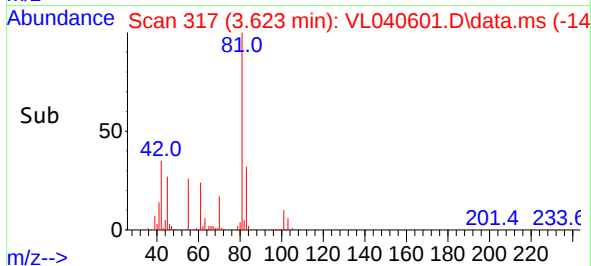
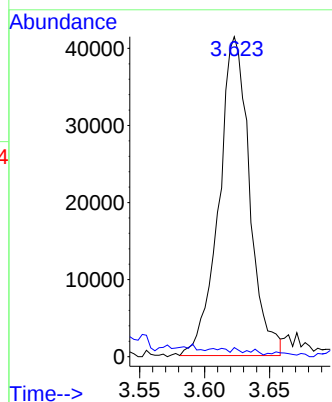
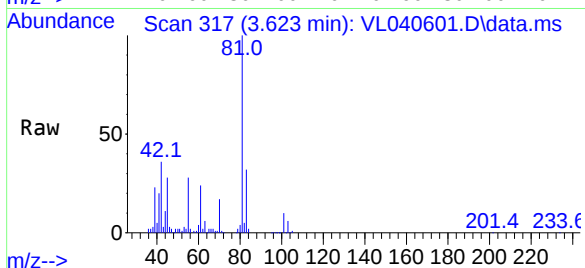
SV-1DL

Tgt Ion: 45 Resp: 67938

Ion Ratio Lower Upper

45 100

58 106.1 1.1 1.7#



#20

Methylene Chloride

Concen: 7.762 ppbv

RT: 3.941 min Scan# 416

Delta R.T. -0.000 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

Tgt Ion: 84 Resp: 477051

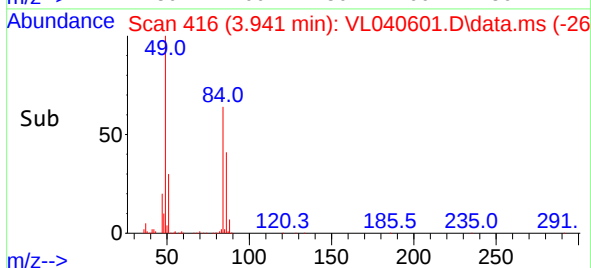
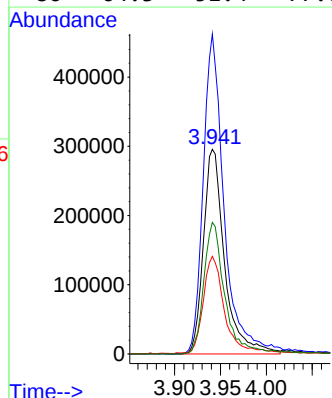
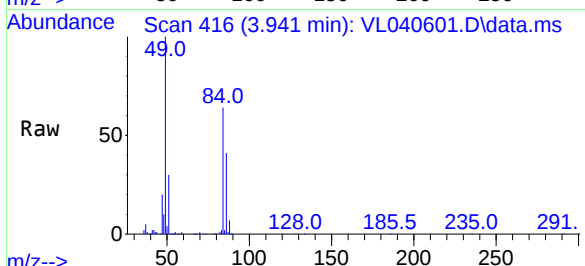
Ion Ratio Lower Upper

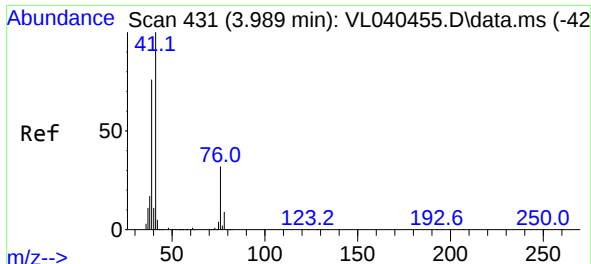
84 100

49 156.3 123.4 185.2

51 47.2 38.3 57.5

86 64.3 51.4 77.0

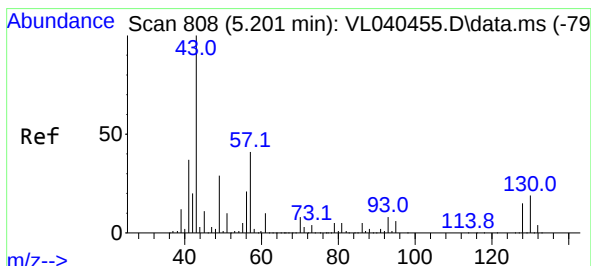
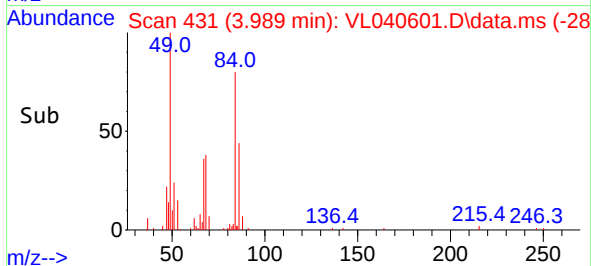
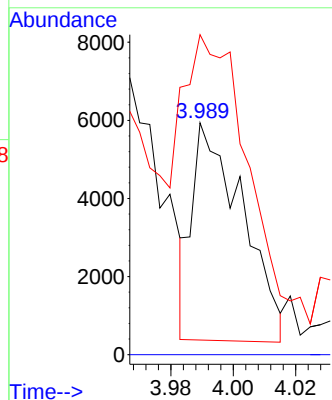
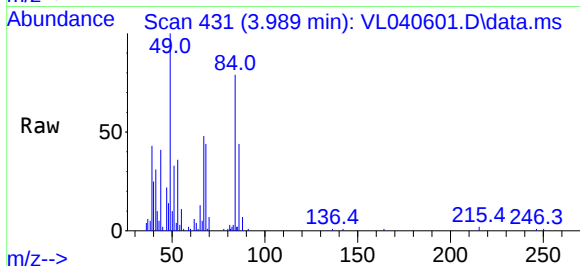




#21
 Allyl Chloride
 Concen: 0.075 ppbv
 RT: 3.989 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL040601.D
 Acq: 7 Aug 2023 16:34

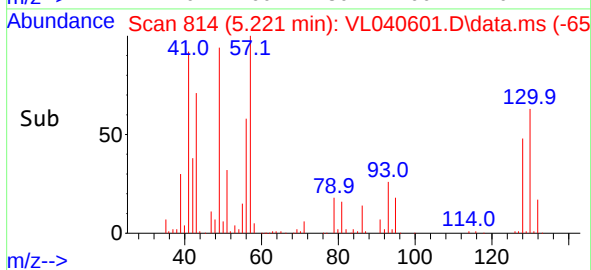
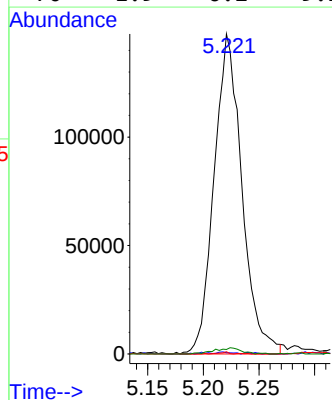
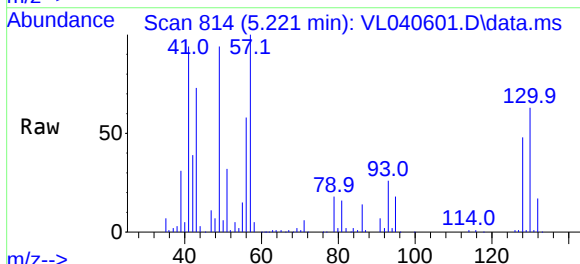
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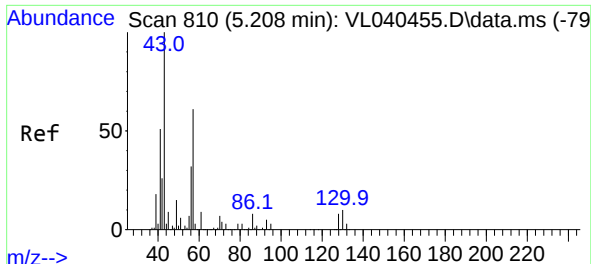
Tgt Ion:	41	Resp:	6208
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	193.4	60.6	91.0#



#25
 Ethyl Acetate
 Concen: 0.932 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.010 min
 Lab File: VL040601.D
 Acq: 7 Aug 2023 16:34

Tgt Ion:	43	Resp:	256239
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.4#
61	0.3	8.3	12.5#
70	1.9	6.2	9.2#

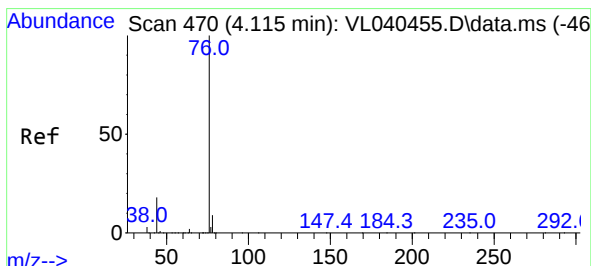
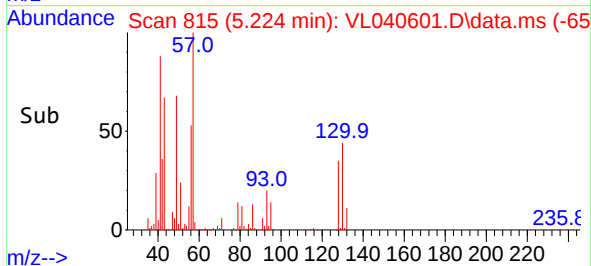
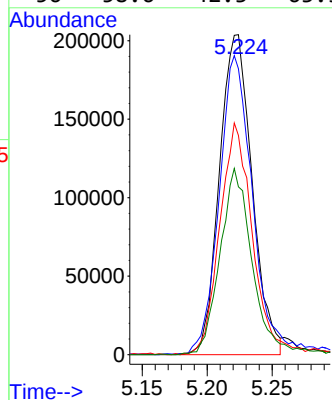
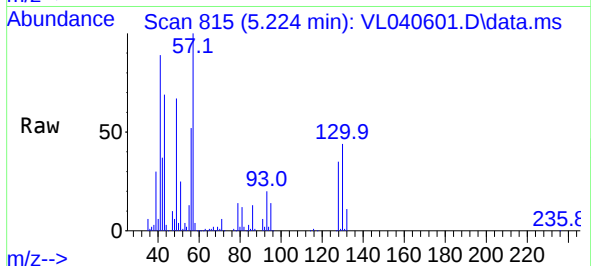




#26
Hexane
Concen: 2.791 ppbv
RT: 5.224 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

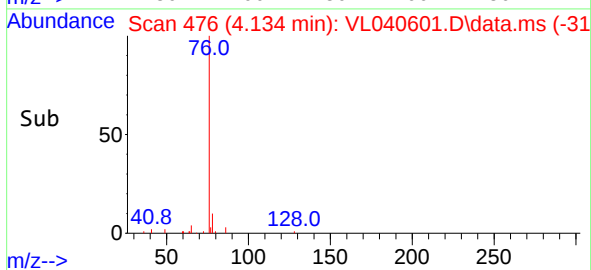
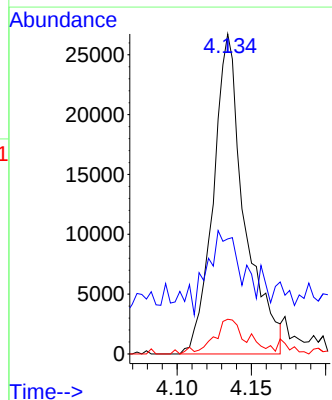
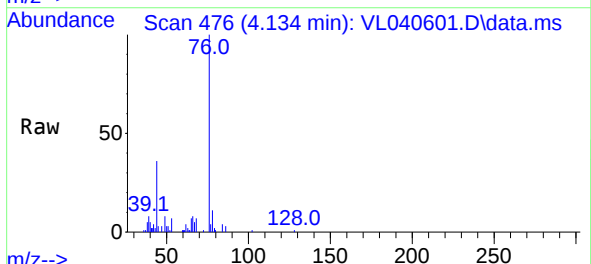
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

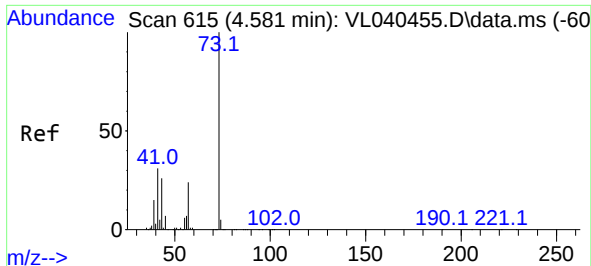
Tgt Ion: 57 Resp: 356687
Ion Ratio Lower Upper
57 100
41 98.9 69.5 104.3
43 74.8 177.1 265.7#
56 58.6 42.3 63.5



#27
Carbon Disulfide
Concen: 0.260 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 76 Resp: 39010
Ion Ratio Lower Upper
76 100
44 36.8 15.1 22.7#
78 14.6 7.5 11.3#





#28

Methyl tert-Butyl Ether

Concen: 0.126 ppbv

RT: 4.607 min Scan# 615

Delta R.T. 0.013 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

Instrument :

MSVOA_L

ClientSampleId :

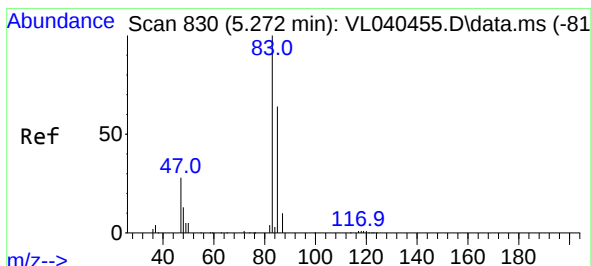
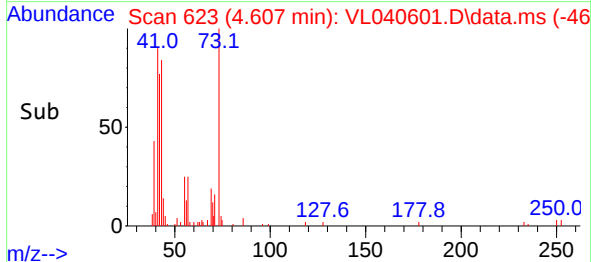
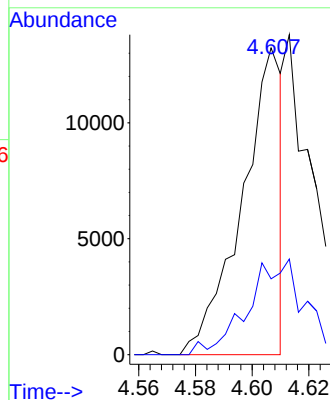
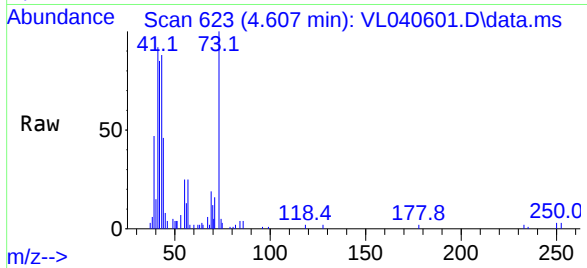
SV-1DL

Tgt Ion: 73 Resp: 12963

Ion Ratio Lower Upper

73 100

57 0.0 18.8 28.2#



#29

Chloroform

Concen: 0.159 ppbv

RT: 5.285 min Scan# 834

Delta R.T. -0.000 min

Lab File: VL040601.D

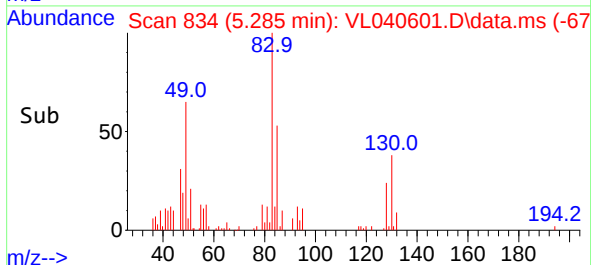
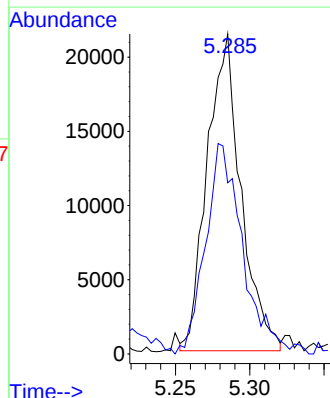
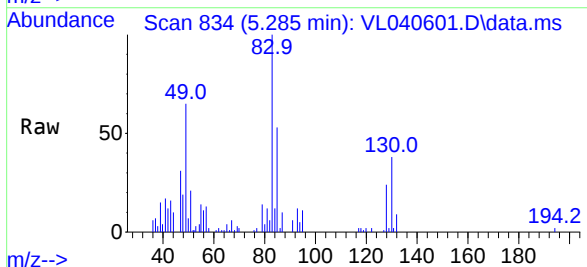
Acq: 7 Aug 2023 16:34

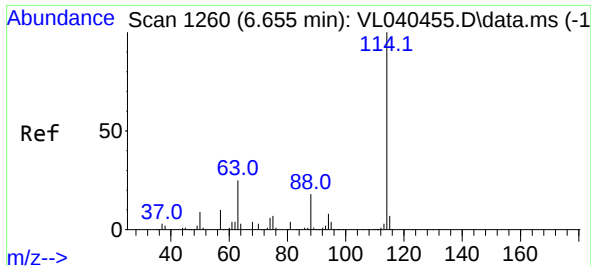
Tgt Ion: 83 Resp: 33765

Ion Ratio Lower Upper

83 100

85 52.5 51.1 76.7

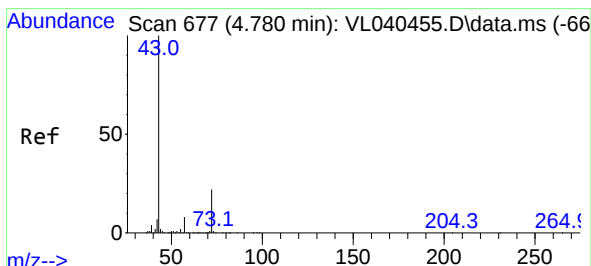
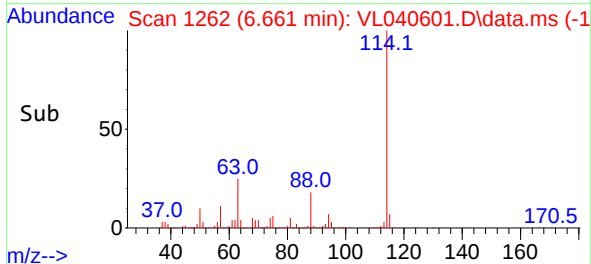
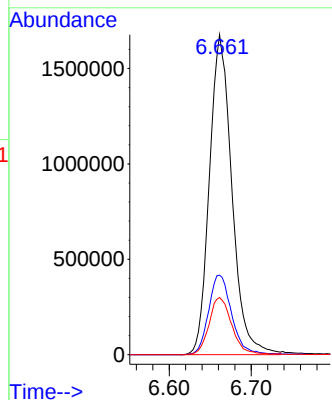
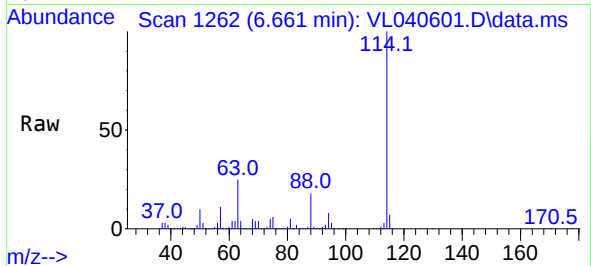




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 114
Delta R.T. -0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

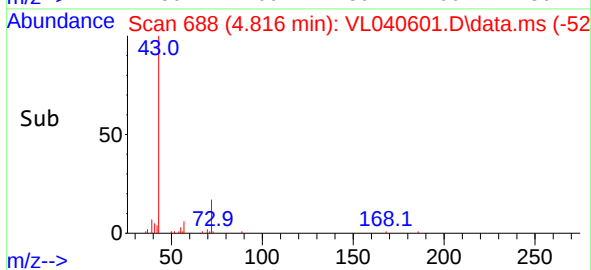
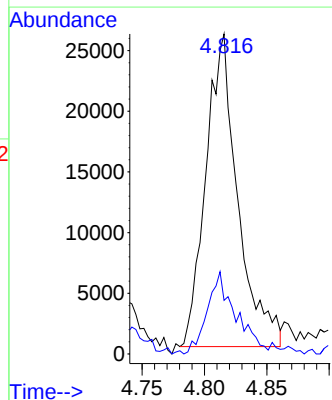
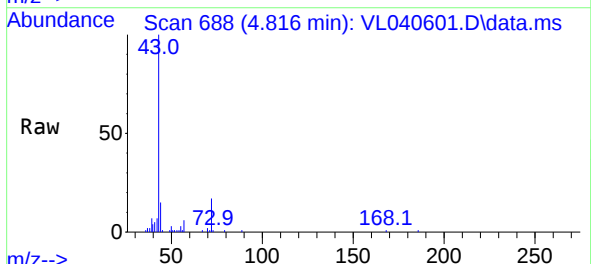
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

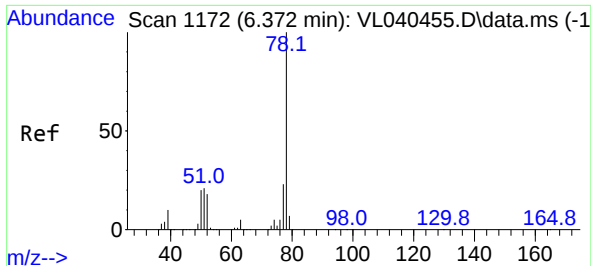
Tgt Ion:114 Resp: 3194951
Ion Ratio Lower Upper
114 100
63 25.9 19.6 29.4
88 18.2 14.2 21.2



#34
2-Butanone
Concen: 0.291 ppbv
RT: 4.816 min Scan# 688
Delta R.T. 0.022 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 43 Resp: 45972
Ion Ratio Lower Upper
43 100
72 25.1 19.1 28.7

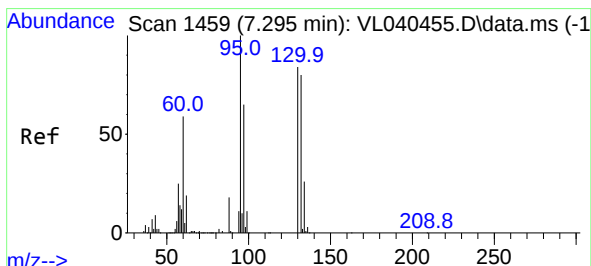
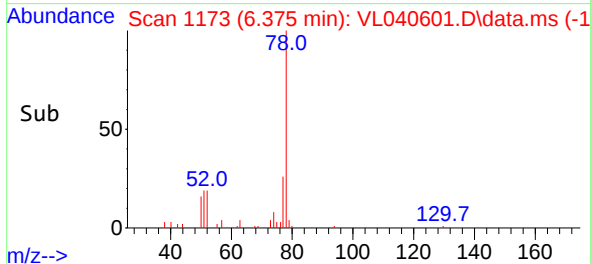
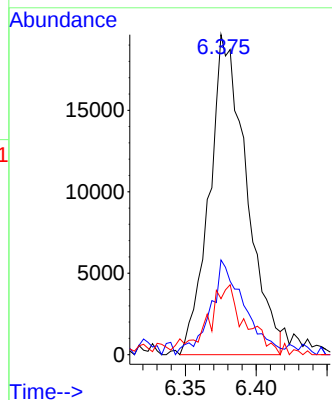
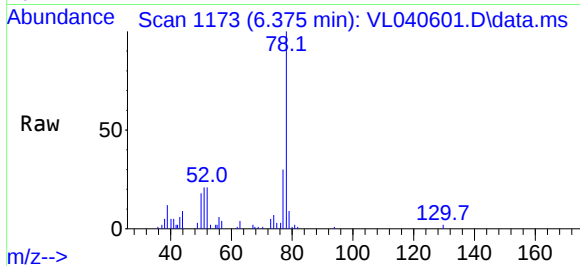




#36
Benzene
Concen: 0.139 ppbv
RT: 6.375 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

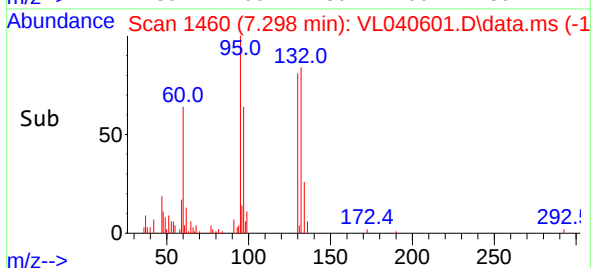
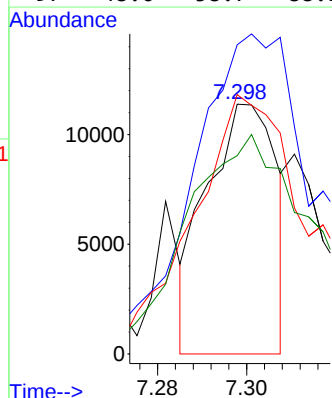
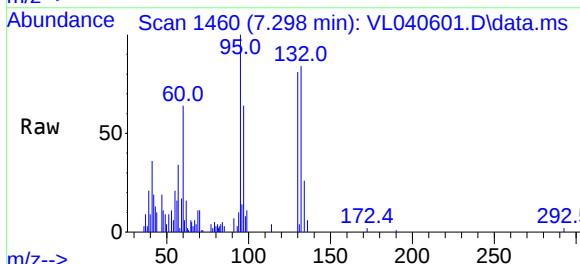
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

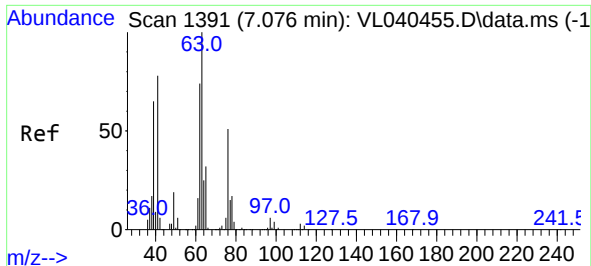
Tgt Ion: 78 Resp: 35802
Ion Ratio Lower Upper
78 100
77 27.7 17.4 26.0#
50 17.5 14.4 21.6



#38
Trichloroethene
Concen: 0.127 ppbv
RT: 7.298 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion:130 Resp: 12373
Ion Ratio Lower Upper
130 100
95 117.9 90.2 135.2
132 91.8 76.3 114.5
97 48.0 58.7 88.1#





#39

1,2-Dichloropropane

Concen: 8.204 ppbv

RT: 6.661 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

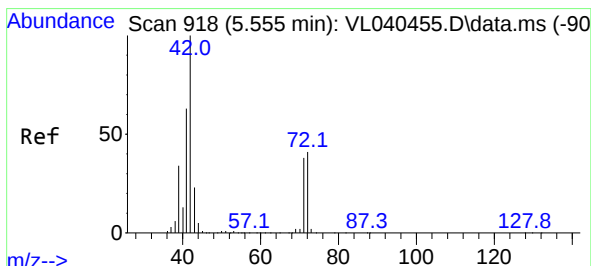
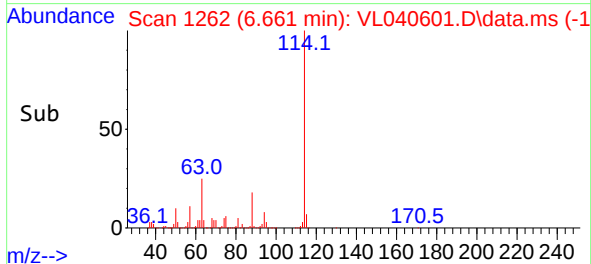
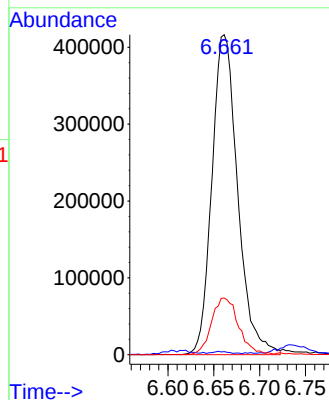
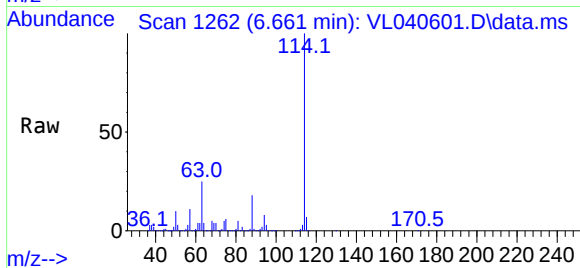
Tgt Ion: 63 Resp: 811883

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 17.6 55.6 83.4#



#41

Tetrahydrofuran

Concen: 0.037 ppbv

RT: 5.822 min Scan# 1001

Delta R.T. 0.257 min

Lab File: VL040601.D

Acq: 7 Aug 2023 16:34

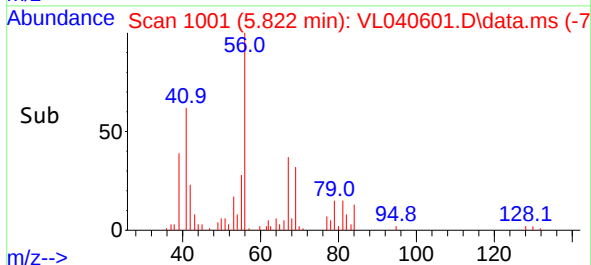
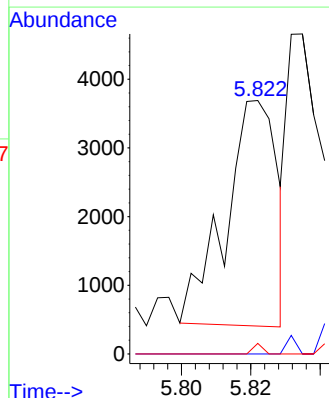
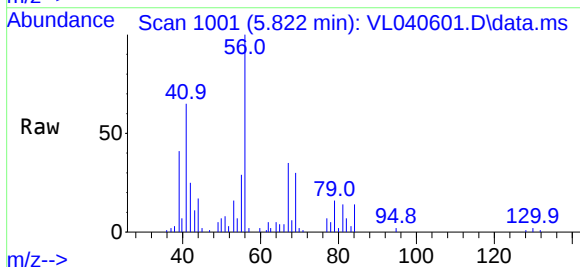
Tgt Ion: 42 Resp: 3406

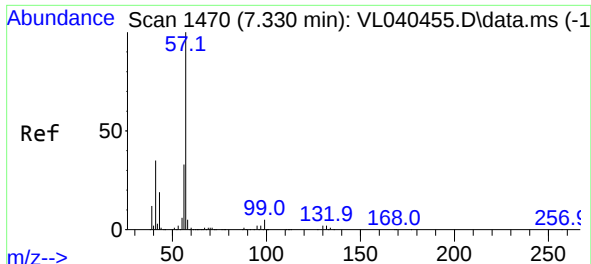
Ion Ratio Lower Upper

42 100

72 3.6 33.8 50.8#

71 0.0 33.0 49.6#

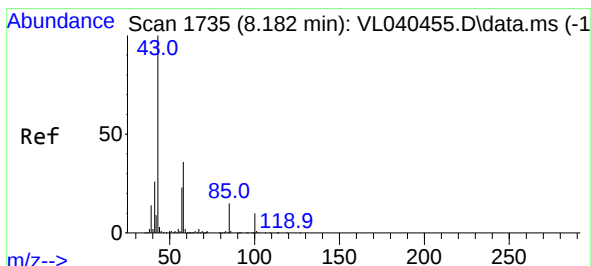
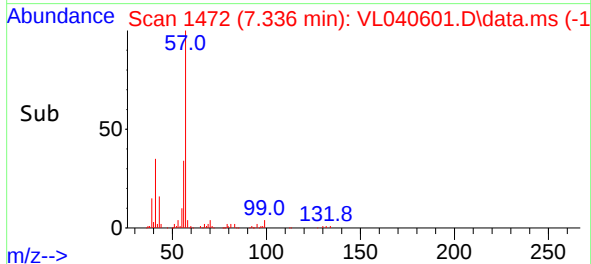
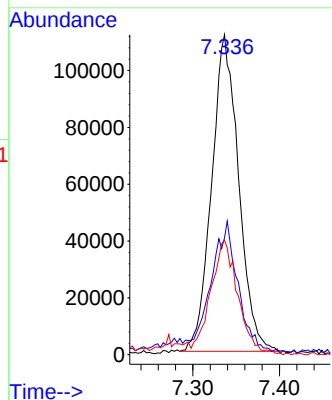
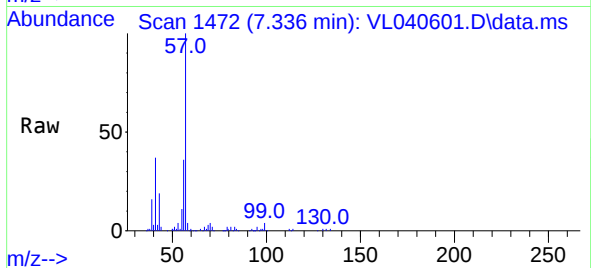




#44
2,2,4-Trimethylpentane
Concen: 0.584 ppbv
RT: 7.336 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

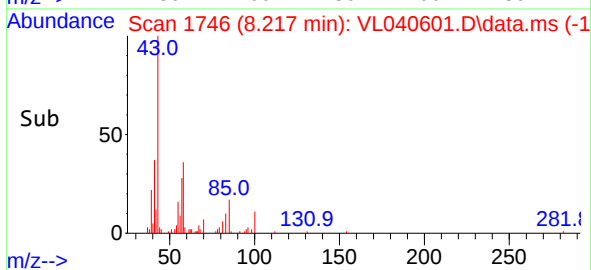
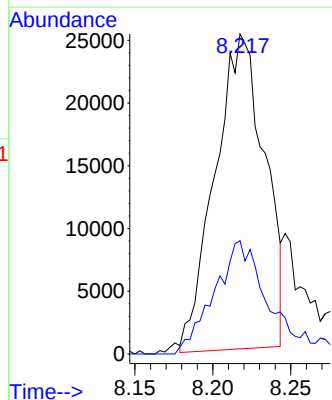
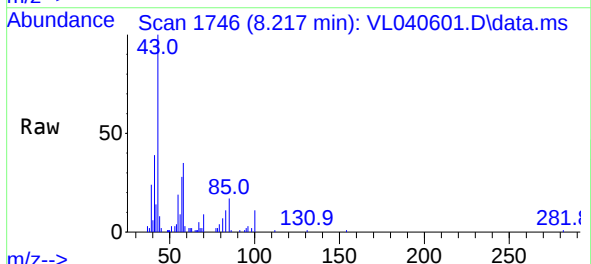
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

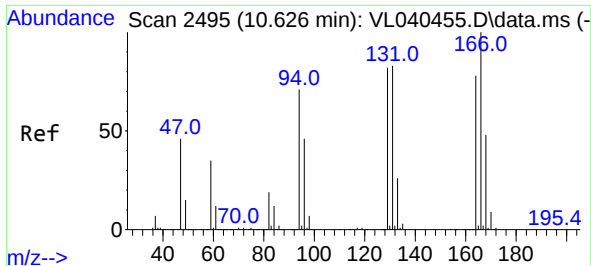
Tgt Ion: 57 Resp: 241430
Ion Ratio Lower Upper
57 100
41 48.6 25.5 38.3#
56 41.8 25.1 37.7#



#50
4-Methyl-2-Pentanone
Concen: 0.243 ppbv
RT: 8.217 min Scan# 1746
Delta R.T. 0.026 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 43 Resp: 55651
Ion Ratio Lower Upper
43 100
58 42.0 30.2 45.2

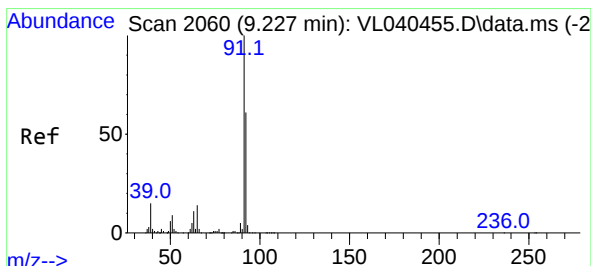
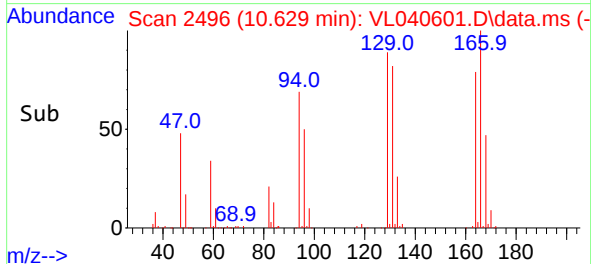
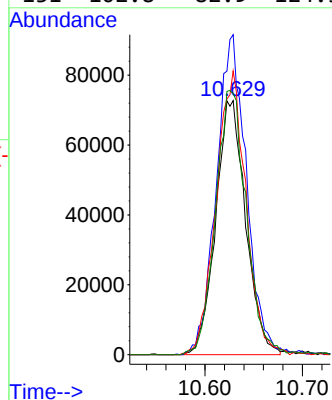
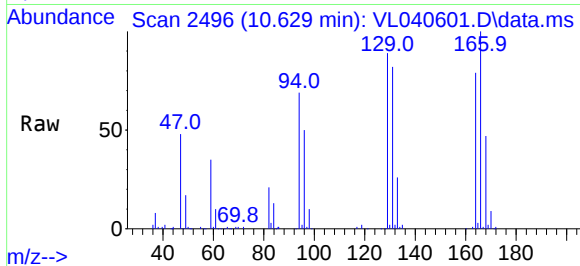




#52
Tetrachloroethene
Concen: 1.867 ppbv
RT: 10.629 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

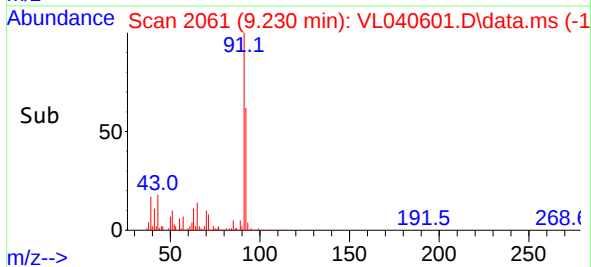
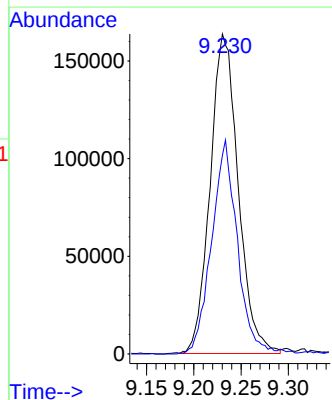
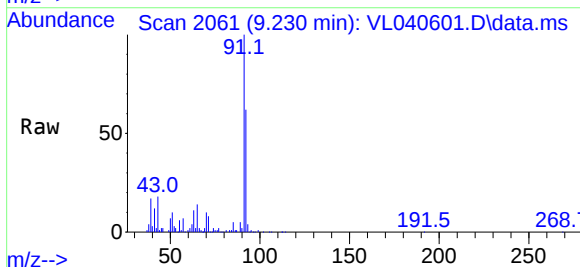
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

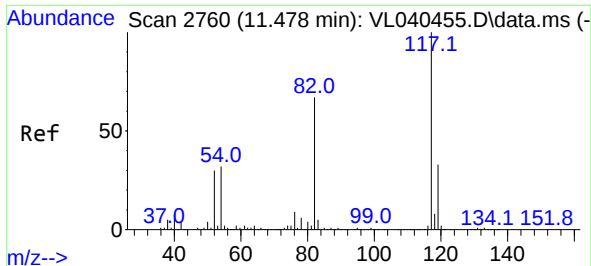
Tgt Ion:164 Resp: 155448
Ion Ratio Lower Upper
164 100
166 125.9 103.9 155.9
129 111.7 84.6 126.8
131 102.8 82.9 124.3



#53
Toluene
Concen: 1.209 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 91 Resp: 337727
Ion Ratio Lower Upper
91 100
92 62.3 49.1 73.7

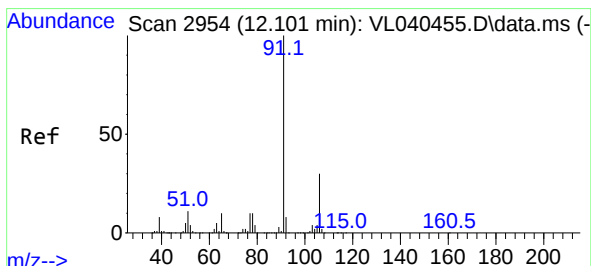
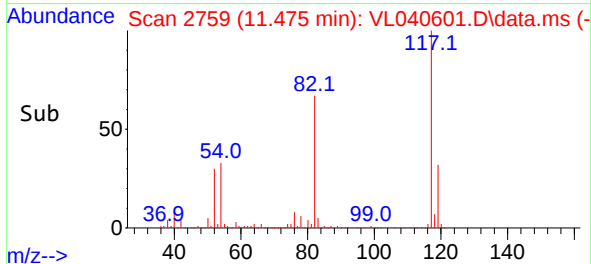
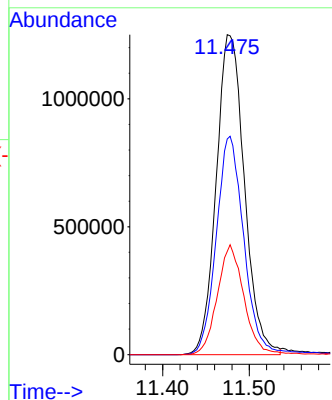
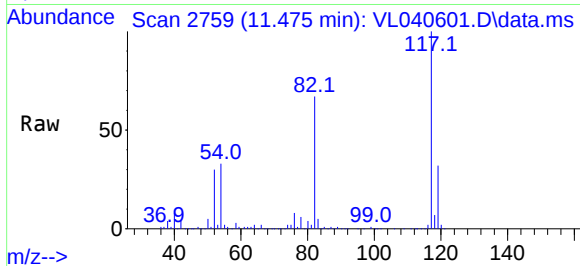




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

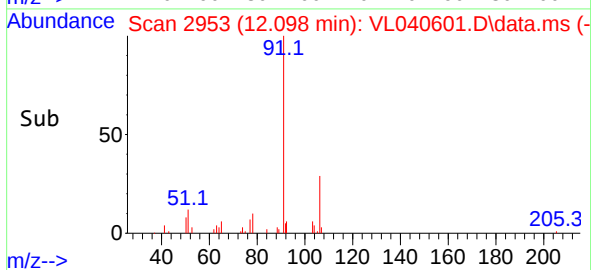
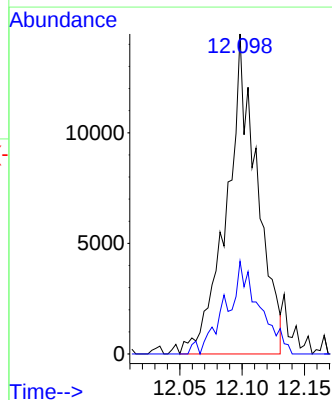
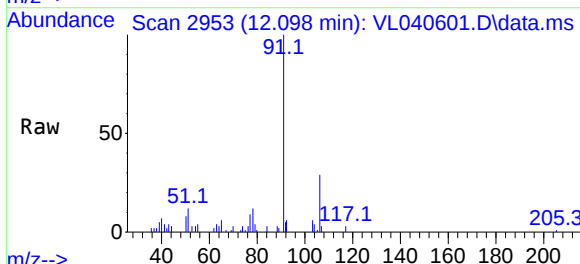
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

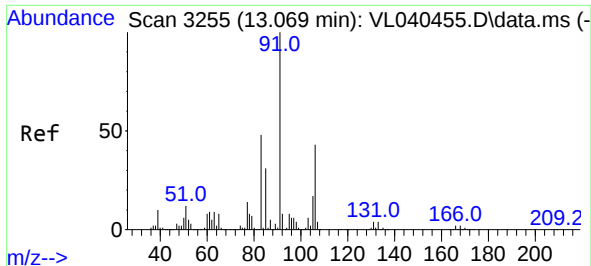
Tgt Ion:117 Resp: 2829906
Ion Ratio Lower Upper
117 100
82 67.5 50.2 75.4
119 32.7 26.9 40.3



#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. -0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 91 Resp: 24598
Ion Ratio Lower Upper
91 100
106 29.0 25.4 38.0

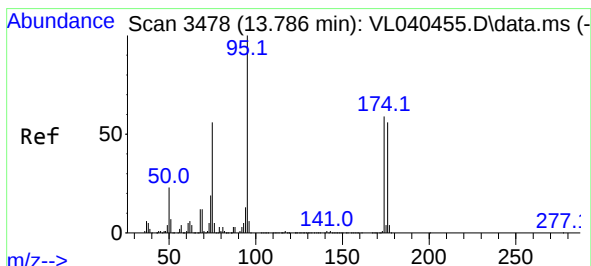
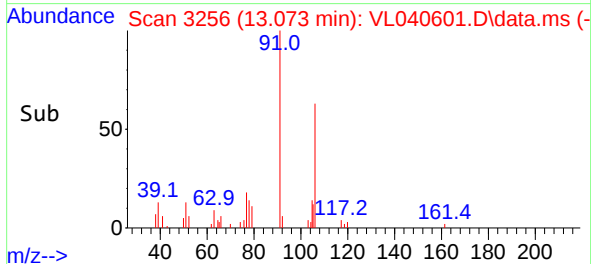
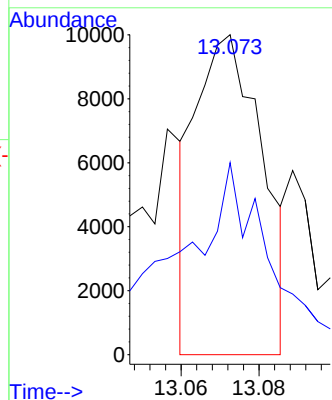
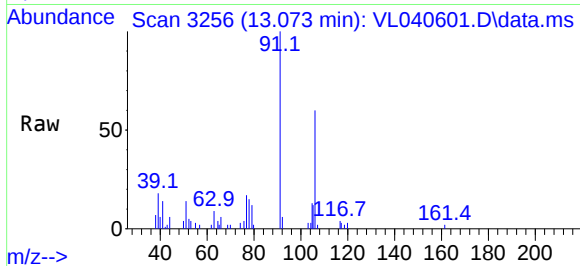




#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.073 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Tgt Ion: 91 Resp: 11855
Ion Ratio Lower Upper
91 100
106 89.9 22.7 68.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.090 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL040601.D
Acq: 7 Aug 2023 16:34

Tgt Ion: 95 Resp: 2259868
Ion Ratio Lower Upper
95 100
174 60.4 50.6 75.8
175 4.4 3.7 5.5

