

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040609.D
 Acq On : 9 Aug 2023 17:16
 Operator : SY/MD
 Sample : 03907-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Quant Time: Aug 10 01:30:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

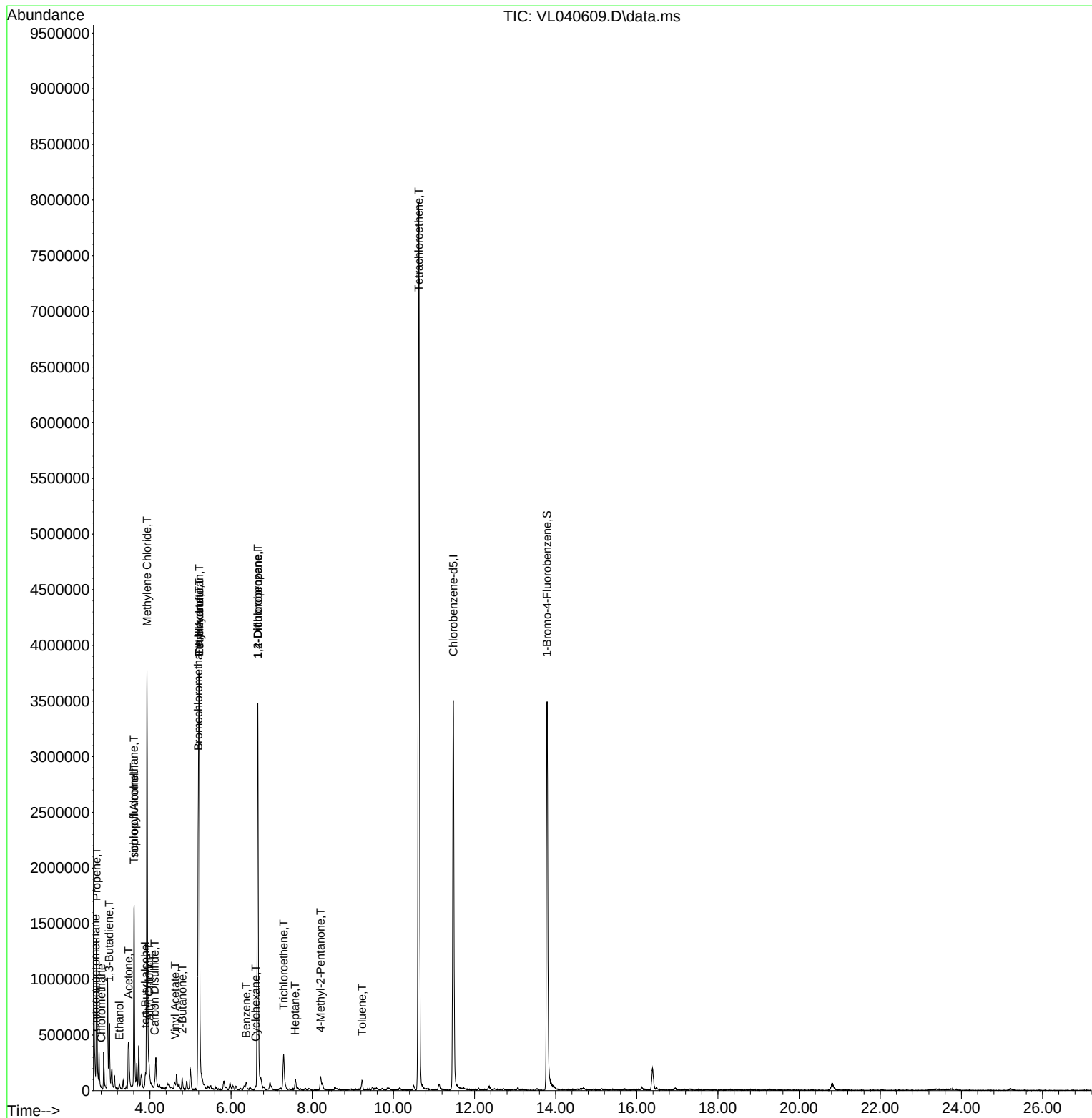
Internal Standards						
1) Bromochloromethane	5.192	49	1022740	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.658	114	2504527	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2168990	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1768126	10.300	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.661	51	5829	0.036	ppbv #	89
4) Chloromethane	2.800	50	3381	0.053	ppbv	99
9) Propene	2.681	41	528029	9.514	ppbv	95
10) Heptane	7.581	43	16685	0.136	ppbv #	25
11) Trichlorofluoromethane	3.607	101	64316	0.390	ppbv	97
13) Ethanol	3.247	45	38101	3.155	ppbv	96
15) Acetone	3.468	43	481701	4.092	ppbv	98
16) 1,3-Butadiene	2.999	39	68390	1.151	ppbv #	8
17) tert-Butyl alcohol	3.890	59	62119	0.510	ppbv	95
19) Isopropyl Alcohol	3.610	45	256953	3.802	ppbv #	1
20) Methylene Chloride	3.928	84	1303672	26.034	ppbv	100
21) Allyl Chloride	3.983	41	8983	0.134	ppbv #	21
23) Vinyl Acetate	4.623	43	15243	0.136	ppbv #	69
25) Ethyl Acetate	5.214	43	846961	3.779	ppbv #	76
26) Hexane	5.211	57	1269875	12.196	ppbv #	41
27) Carbon Disulfide	4.121	76	64715	0.528	ppbv	97
30) Cyclohexane	6.607	84	5302	0.061	ppbv #	5
34) 2-Butanone	4.796	43	109112	0.882	ppbv	99
36) Benzene	6.375	78	26217	0.130	ppbv	100
38) Trichloroethene	7.298	130	84237	1.105	ppbv	97
39) 1,2-Dichloropropane	6.658	63	646563	8.334	ppbv #	27
41) Tetrahydrofuran	5.214	42	462376	6.402	ppbv #	47
50) 4-Methyl-2-Pentanone	8.208	43	55923	0.311	ppbv #	77
52) Tetrachloroethene	10.629	164	1888749	28.942	ppbv	95
53) Toluene	9.227	91	35793	0.164	ppbv #	64

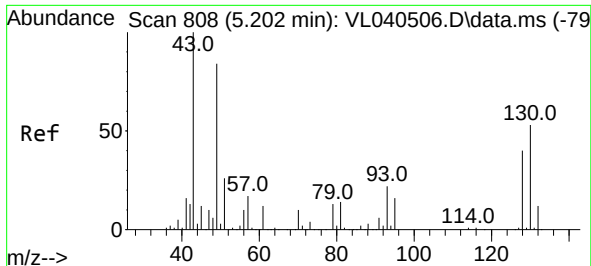
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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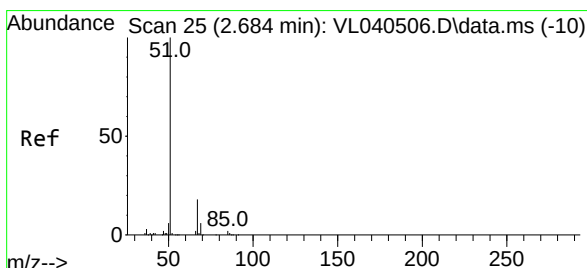
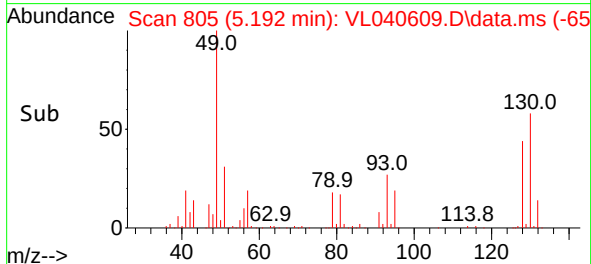
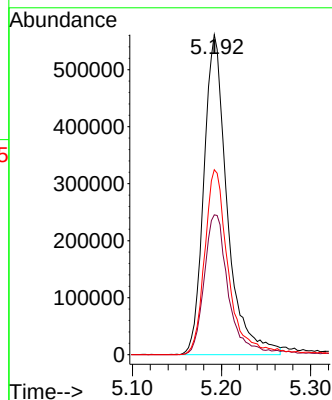
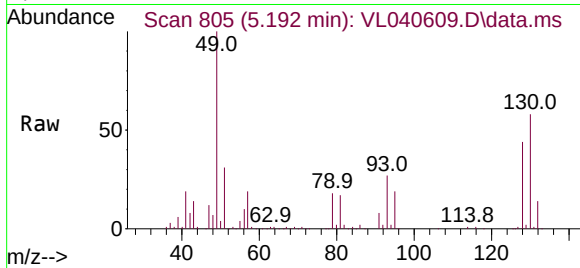




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

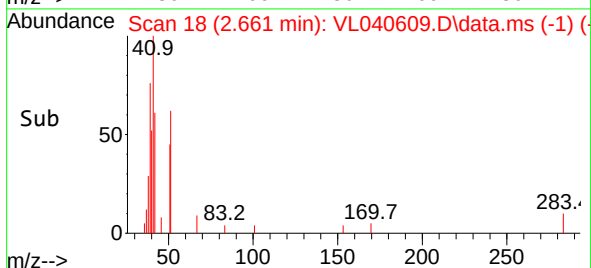
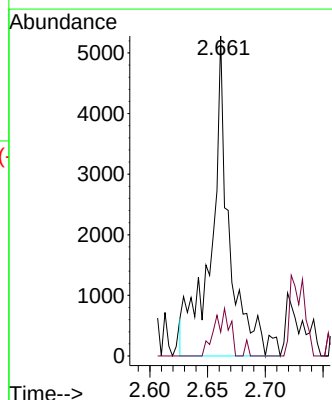
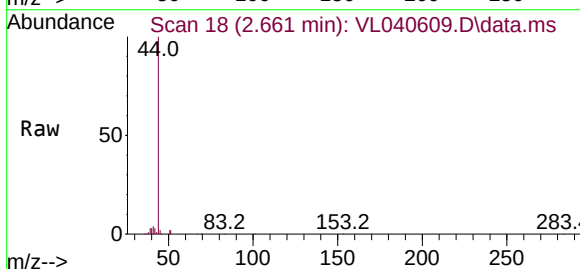
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

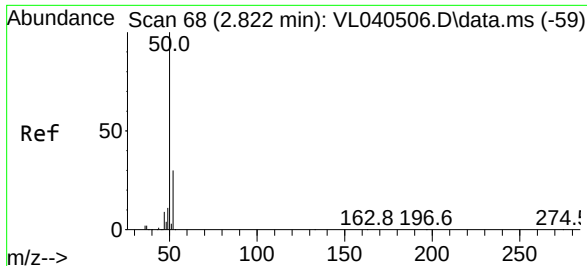
Tgt Ion: 49 Resp: 1022740
Ion Ratio Lower Upper
49 100
128 46.2 25.1 75.4
130 60.2 31.6 94.7



#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.023 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 51 Resp: 5829
Ion Ratio Lower Upper
51 100
67 13.1 14.6 21.8#

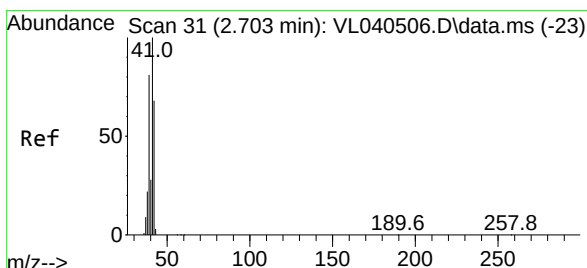
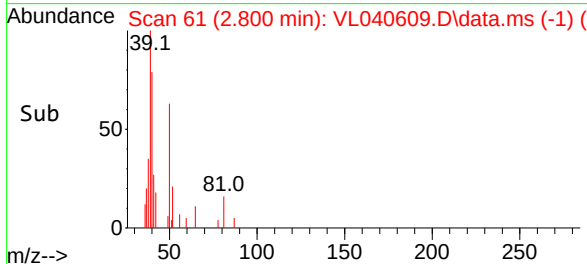
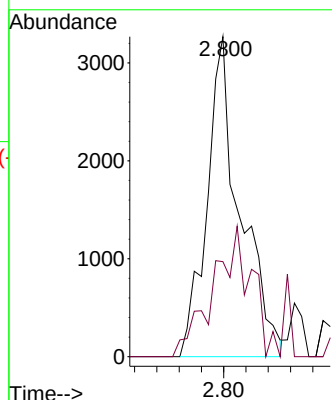
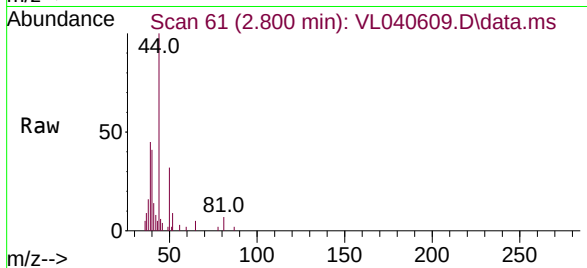




#4
Chloromethane
Concen: 0.053 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.023 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

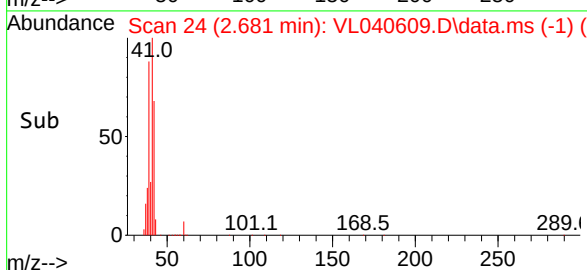
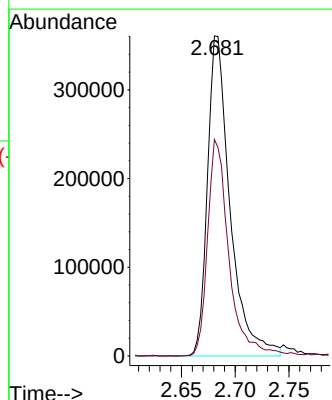
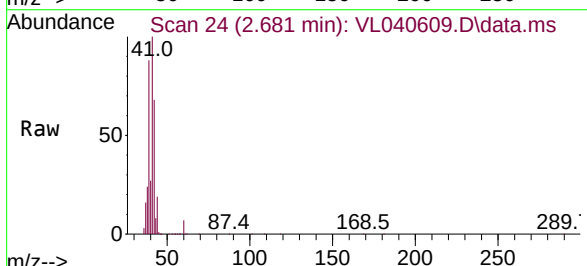
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

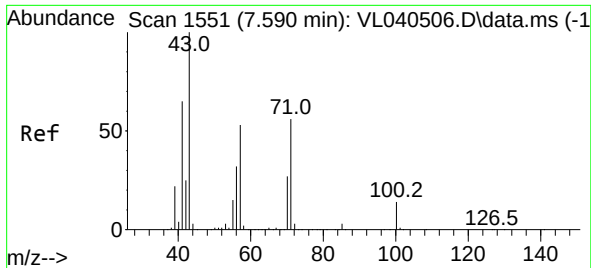
Tgt Ion: 50 Resp: 3381
Ion Ratio Lower Upper
50 100
52 29.7 24.4 36.6



#9
Propene
Concen: 9.514 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.023 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 41 Resp: 528029
Ion Ratio Lower Upper
41 100
42 64.5 55.0 82.6

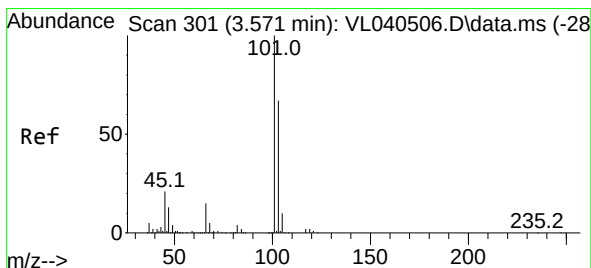
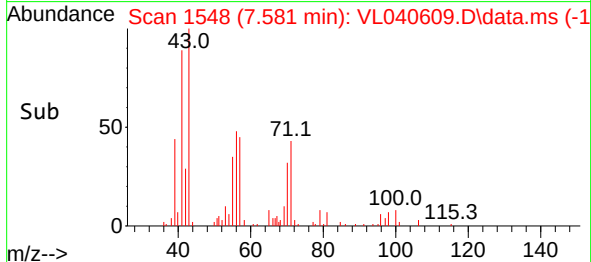
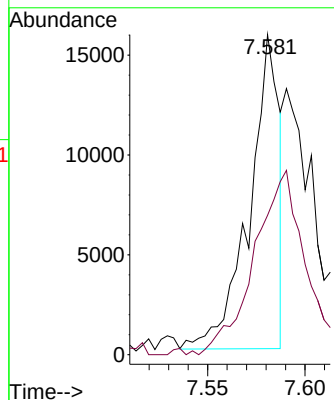
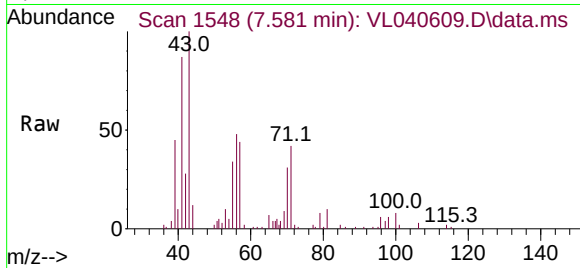




#10
Heptane
Concen: 0.136 ppbv
RT: 7.581 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

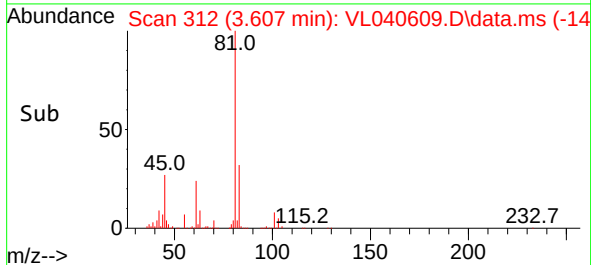
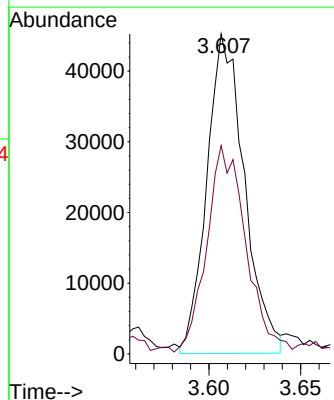
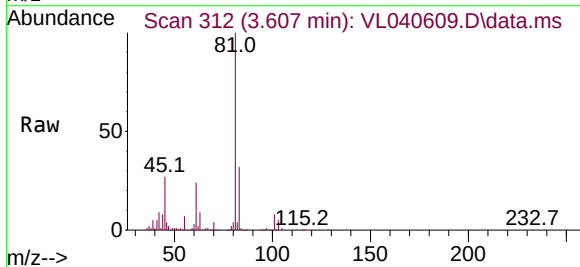
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

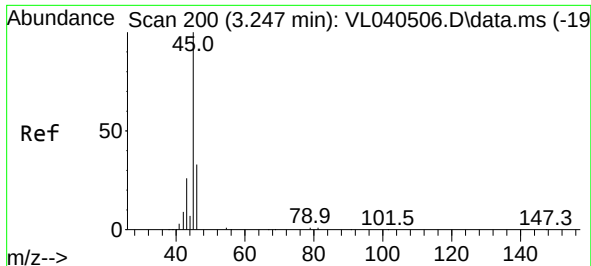
Tgt Ion: 43 Resp: 16685
Ion Ratio Lower Upper
43 100
57 0.0 42.5 63.7#



#11
Trichlorofluoromethane
Concen: 0.390 ppbv
RT: 3.607 min Scan# 312
Delta R.T. 0.035 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion:101 Resp: 64316
Ion Ratio Lower Upper
101 100
103 64.2 53.4 80.0

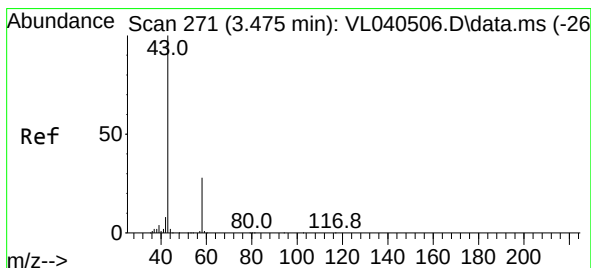
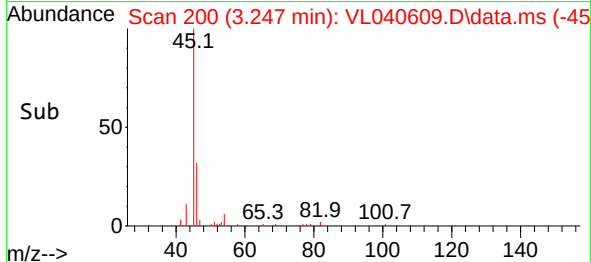
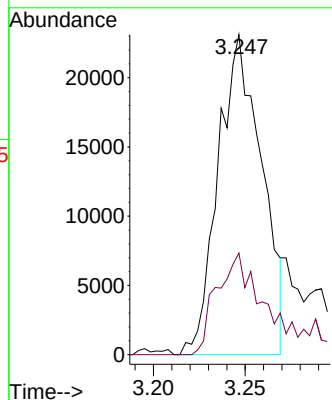
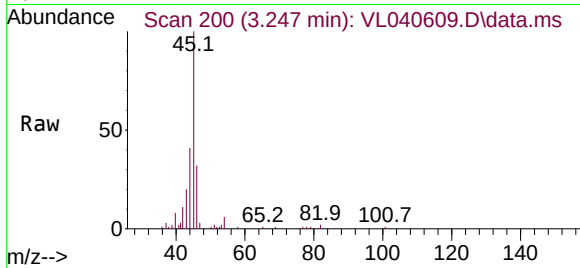




#13
Ethanol
Concen: 3.155 ppbv
RT: 3.247 min Scan# 200
Delta R.T. -0.000 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

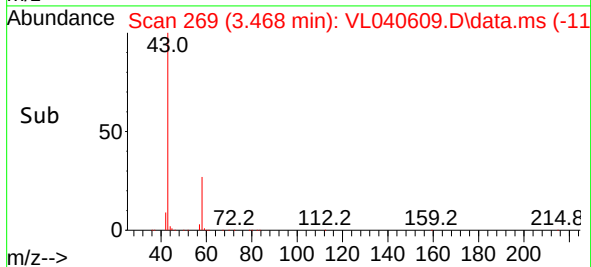
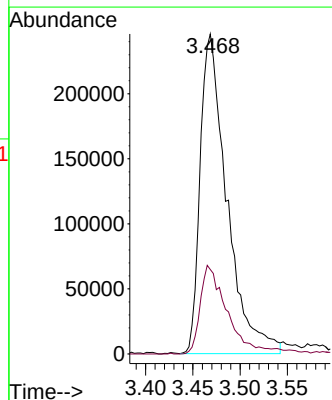
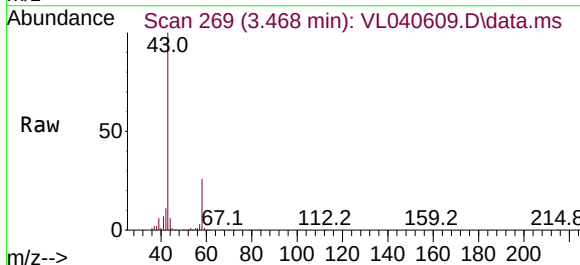
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

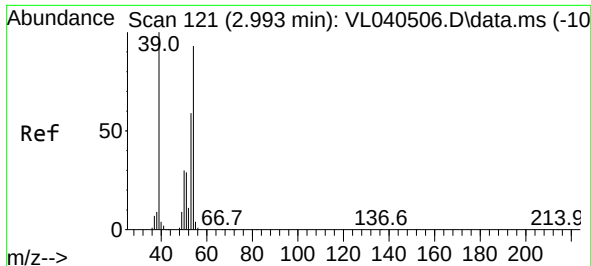
Tgt Ion: 45 Resp: 38101
Ion Ratio Lower Upper
45 100
46 40.7 15.3 61.1



#15
Acetone
Concen: 4.092 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.006 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 43 Resp: 481701
Ion Ratio Lower Upper
43 100
58 29.8 22.9 34.3





#16

1,3-Butadiene

Concen: 1.151 ppbv

RT: 2.999 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

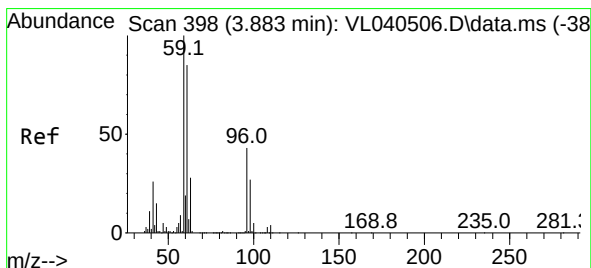
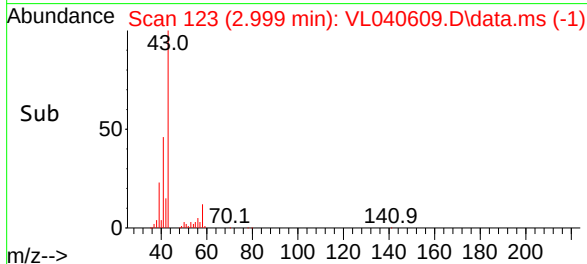
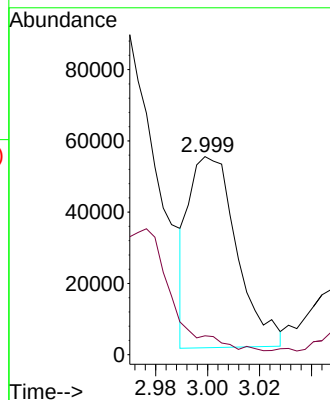
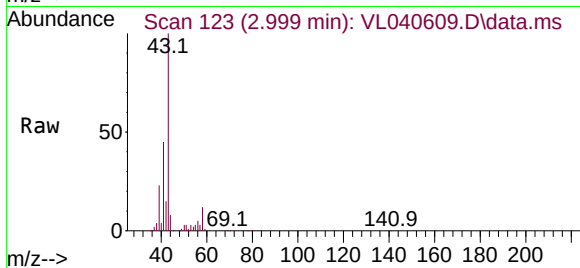
SV-2DL

Tgt Ion: 39 Resp: 68390

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.510 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.006 min

Lab File: VL040609.D

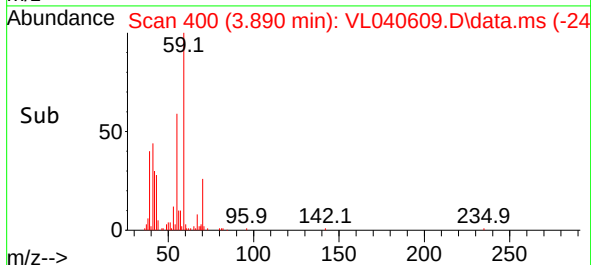
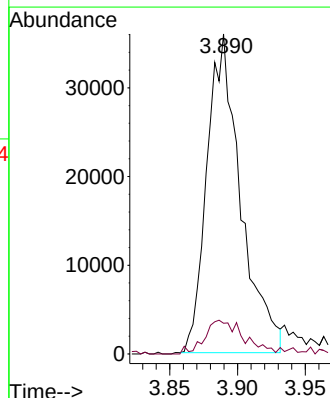
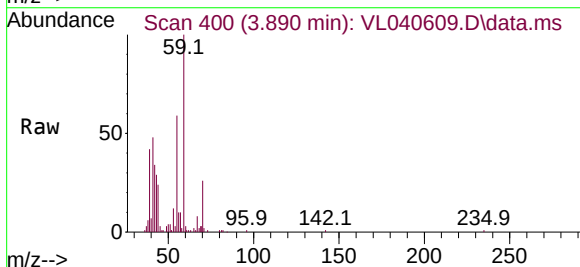
Acq: 9 Aug 2023 17:16

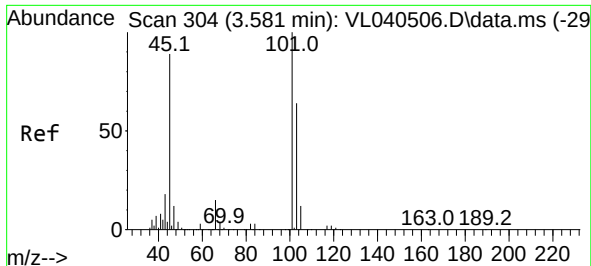
Tgt Ion: 59 Resp: 62119

Ion Ratio Lower Upper

59 100

57 12.9 8.7 13.1





#19

Isopropyl Alcohol

Concen: 3.802 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.029 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

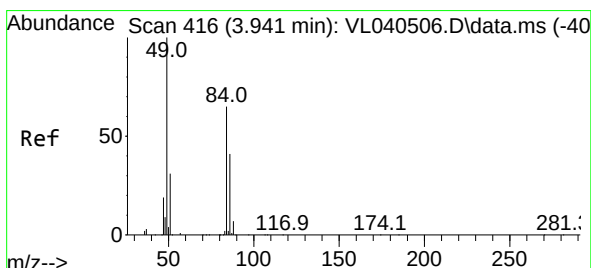
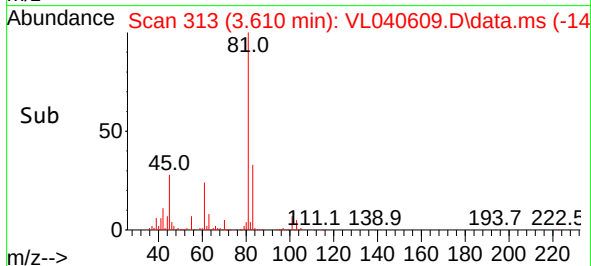
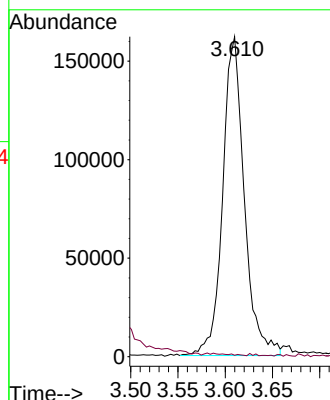
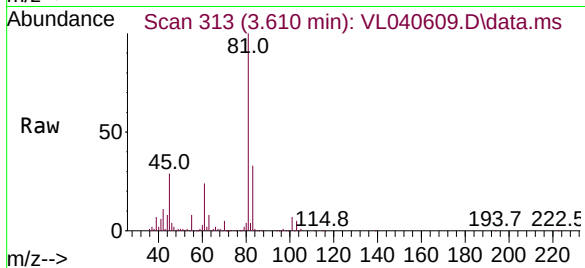
SV-2DL

Tgt Ion: 45 Resp: 256953

Ion Ratio Lower Upper

45 100

58 55.8 1.1 1.7#



#20

Methylene Chloride

Concen: 26.034 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.013 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Tgt Ion: 84 Resp: 1303672

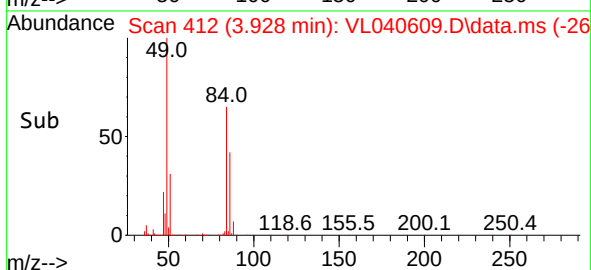
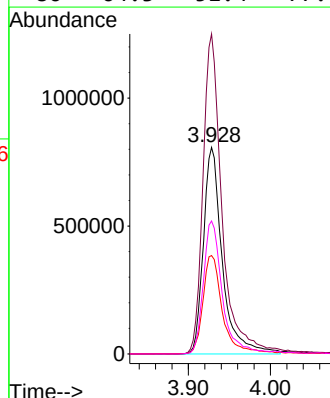
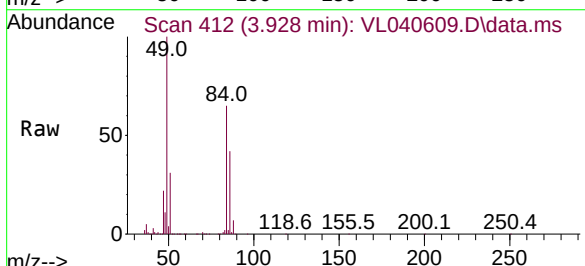
Ion Ratio Lower Upper

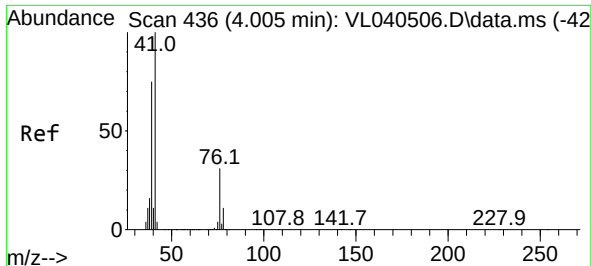
84 100

49 154.8 123.4 185.2

51 47.4 38.3 57.5

86 64.3 51.4 77.0





#21

Allyl Chloride

Concen: 0.134 ppbv

RT: 3.983 min Scan# 41

Delta R.T. -0.023 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

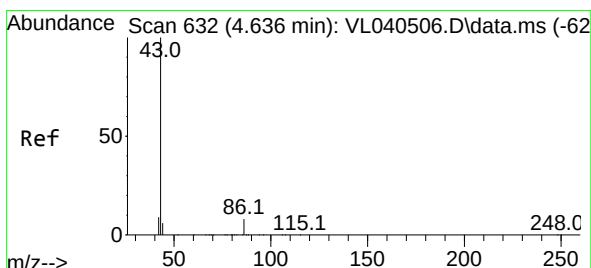
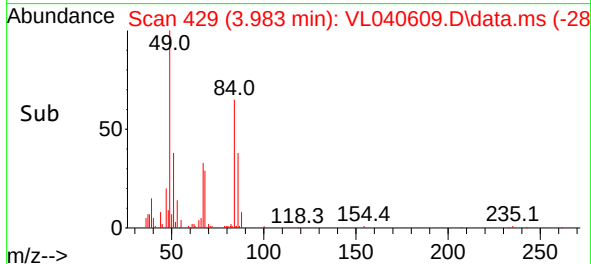
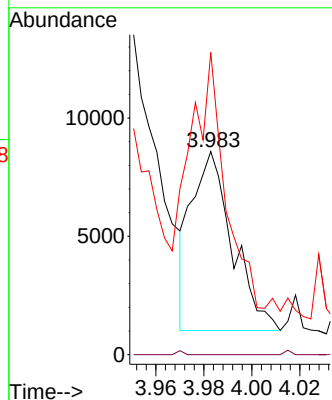
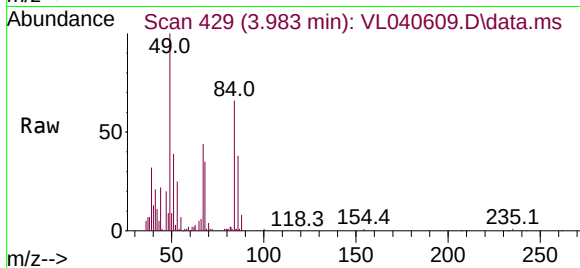
Tgt Ion: 41 Resp: 8983

Ion Ratio Lower Upper

41 100

76 0.0 24.8 37.2#

39 151.7 60.6 91.0#



#23

Vinyl Acetate

Concen: 0.136 ppbv

RT: 4.623 min Scan# 628

Delta R.T. -0.013 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Tgt Ion: 43 Resp: 15243

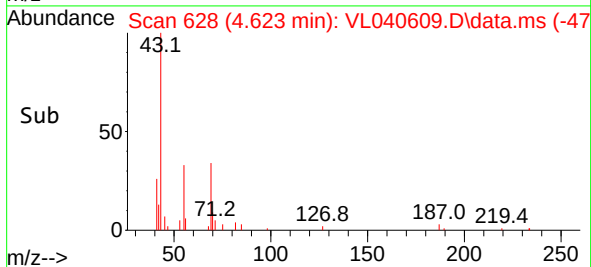
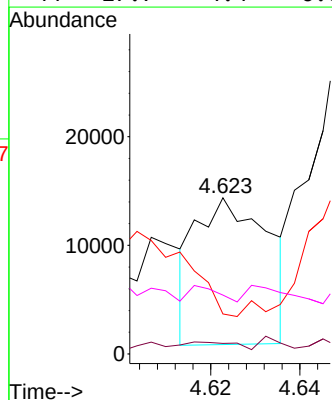
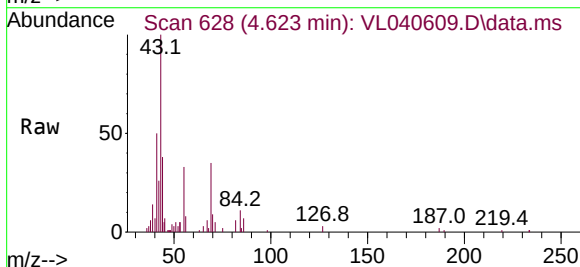
Ion Ratio Lower Upper

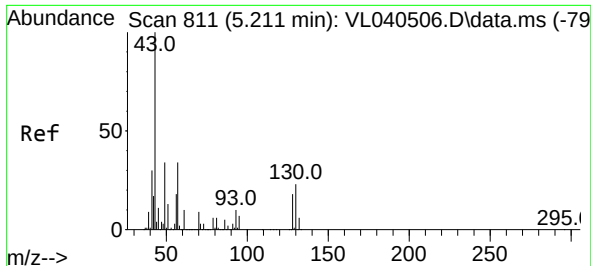
43 100

86 3.3 5.6 8.4#

42 0.0 7.4 11.2#

44 27.7 4.4 6.6#

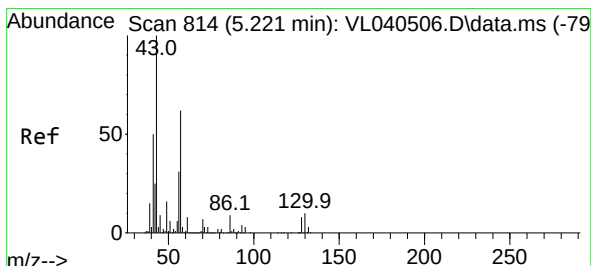
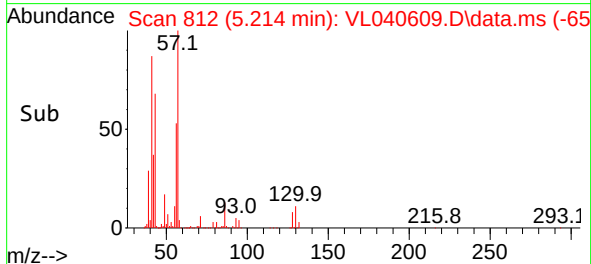
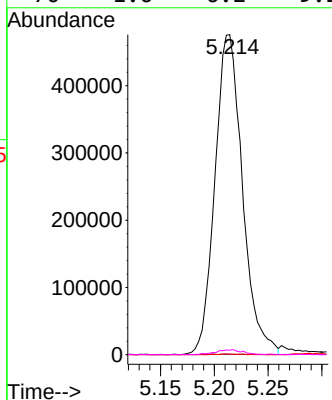
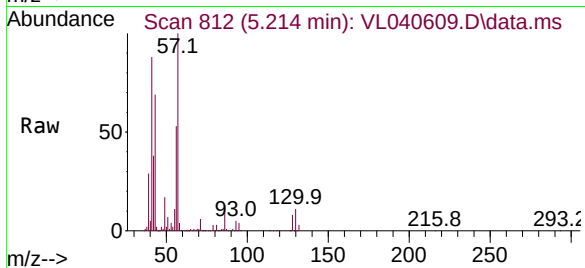




#25
Ethyl Acetate
Concen: 3.779 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

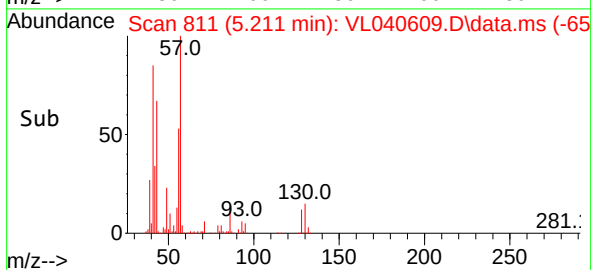
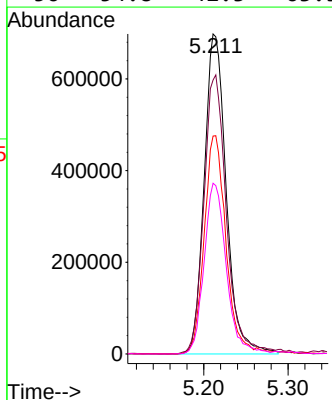
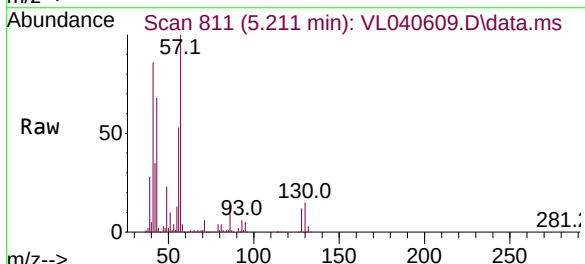
Instrument :
MSVOA_1
ClientSampleId :
SV-2DL

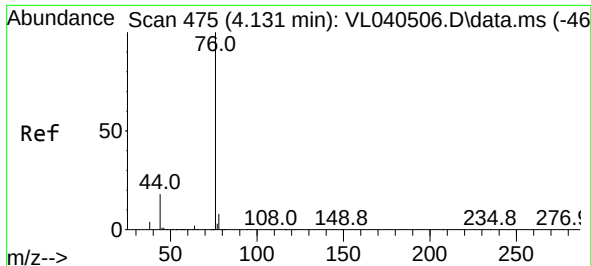
Tgt Ion: 43 Resp: 846961
Ion Ratio Lower Upper
43 100
45 0.3 8.2 12.4#
61 0.2 8.3 12.5#
70 1.6 6.2 9.2#



#26
Hexane
Concen: 12.196 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 57 Resp: 1269875
Ion Ratio Lower Upper
57 100
41 90.6 69.5 104.3
43 68.7 177.1 265.7#
56 54.8 42.3 63.5

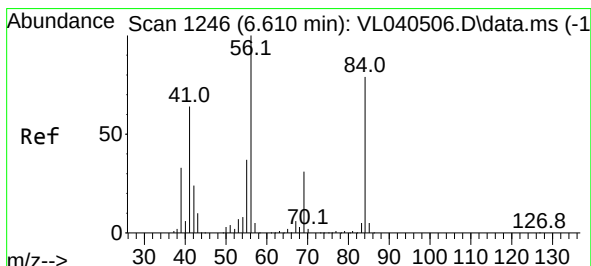
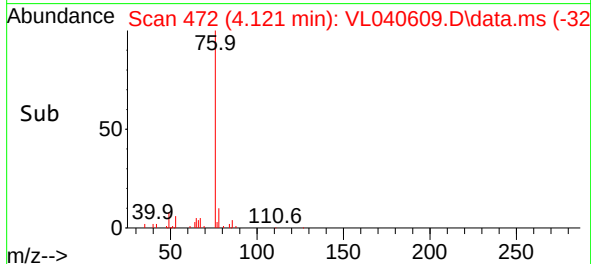
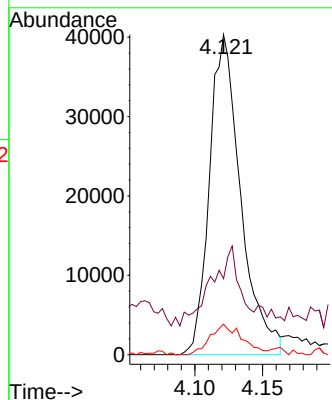
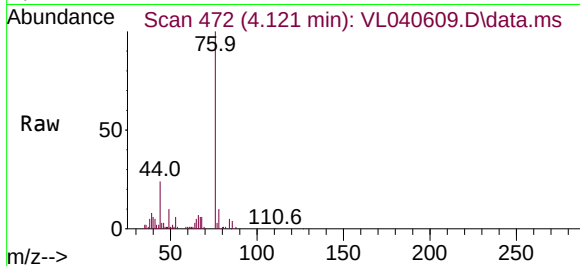




#27
Carbon Disulfide
Concen: 0.528 ppbv
RT: 4.121 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

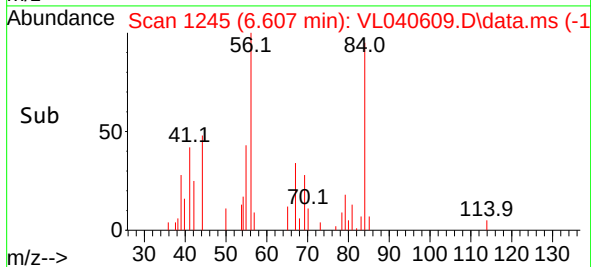
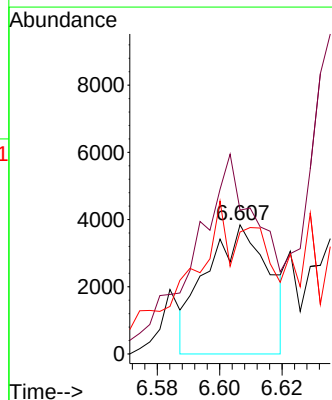
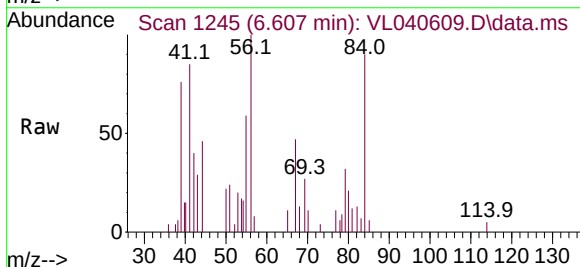
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

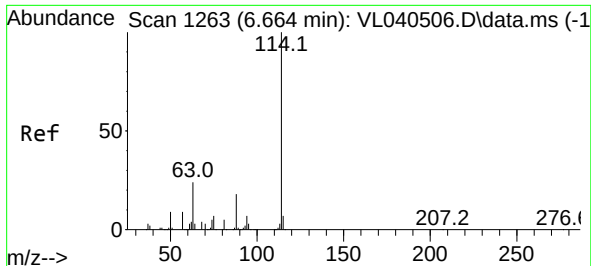
Tgt Ion: 76 Resp: 64715
Ion Ratio Lower Upper
76 100
44 17.5 15.1 22.7
78 10.9 7.5 11.3



#30
Cyclohexane
Concen: 0.061 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 84 Resp: 5302
Ion Ratio Lower Upper
84 100
56 0.0 108.7 163.1#
41 136.7 64.5 96.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

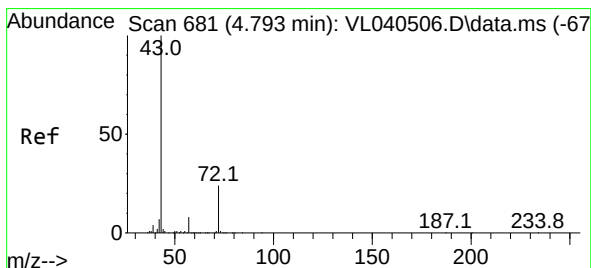
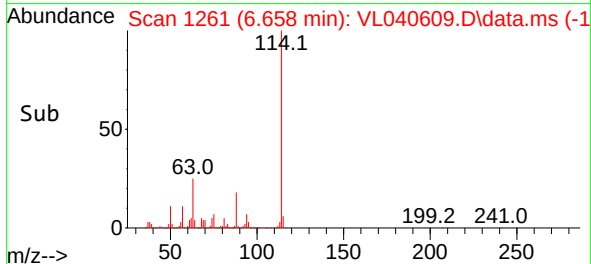
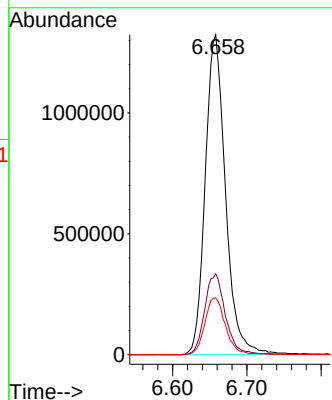
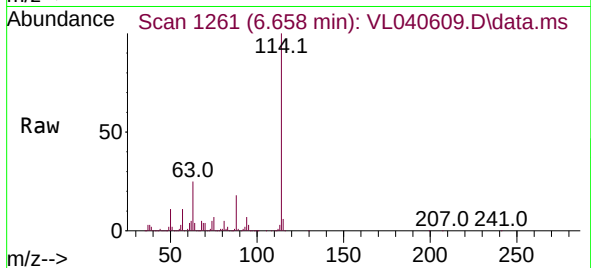
Tgt Ion:114 Resp: 2504527

Ion Ratio Lower Upper

114 100

63 26.2 19.6 29.4

88 18.3 14.2 21.2



#34

2-Butanone

Concen: 0.882 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.003 min

Lab File: VL040609.D

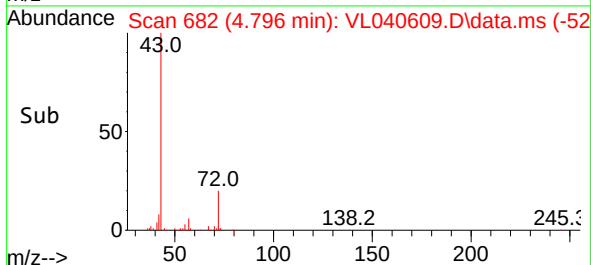
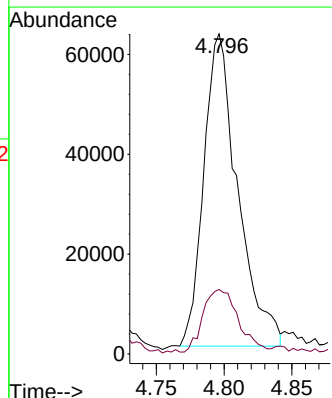
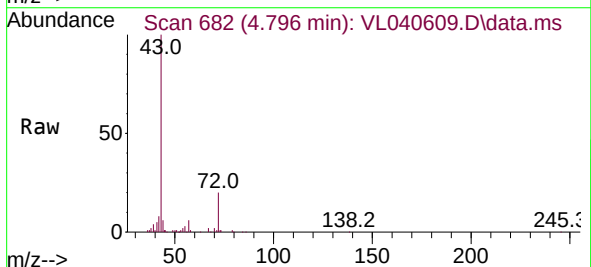
Acq: 9 Aug 2023 17:16

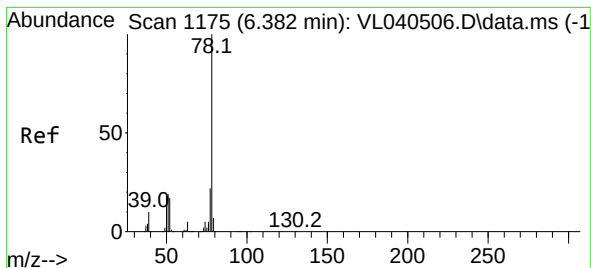
Tgt Ion: 43 Resp: 109112

Ion Ratio Lower Upper

43 100

72 23.4 19.1 28.7





#36

Benzene

Concen: 0.130 ppbv

RT: 6.375 min Scan# 1175

Delta R.T. -0.006 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

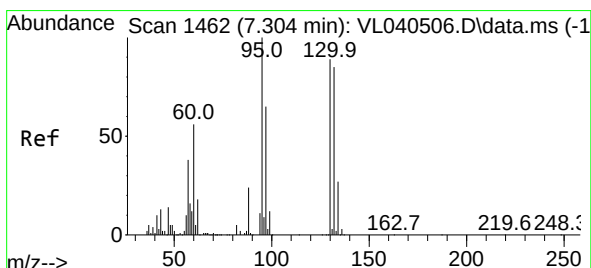
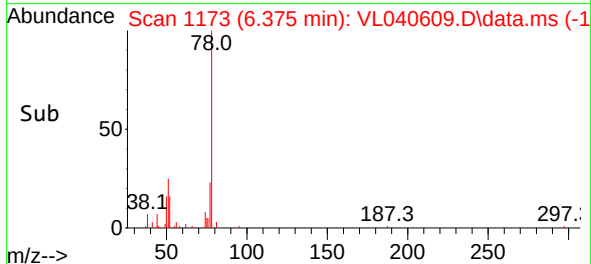
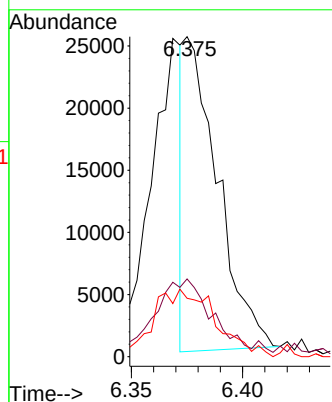
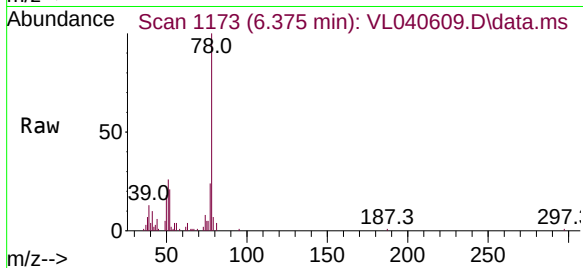
Tgt Ion: 78 Resp: 26217

Ion Ratio Lower Upper

78 100

77 21.7 17.4 26.0

50 17.6 14.4 21.6



#38

Trichloroethene

Concen: 1.105 ppbv

RT: 7.298 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Tgt Ion: 130 Resp: 84237

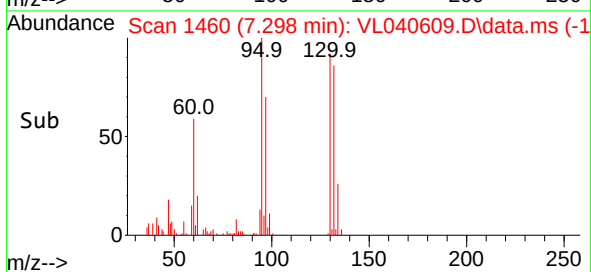
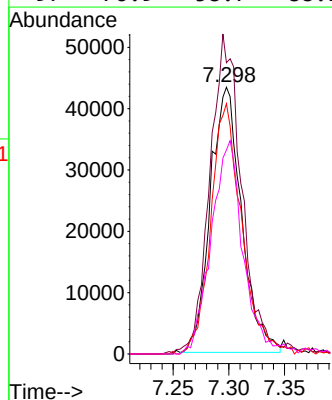
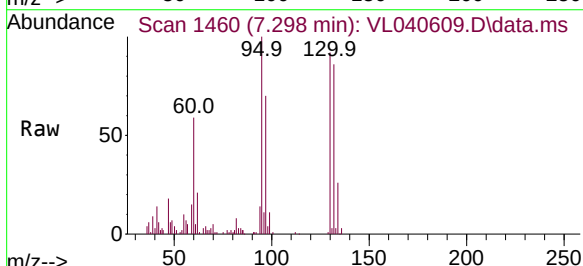
Ion Ratio Lower Upper

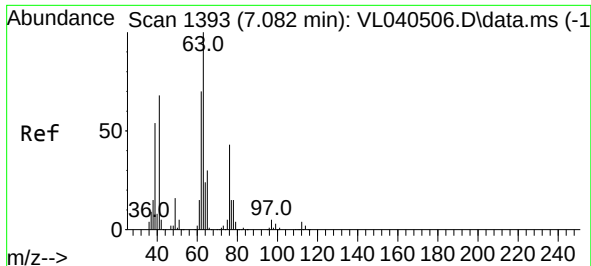
130 100

95 108.1 90.2 135.2

132 94.4 76.3 114.5

97 76.9 58.7 88.1





#39

1,2-Dichloropropane

Concen: 8.334 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.424 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

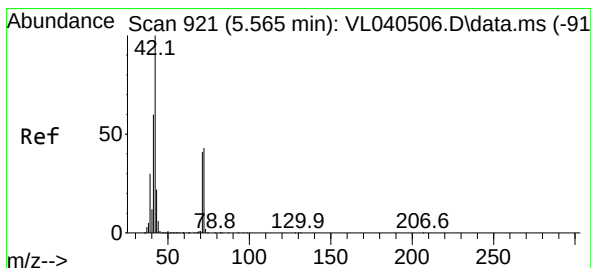
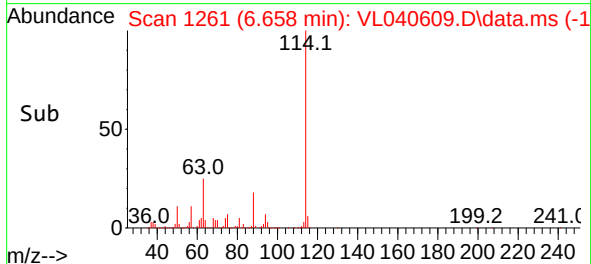
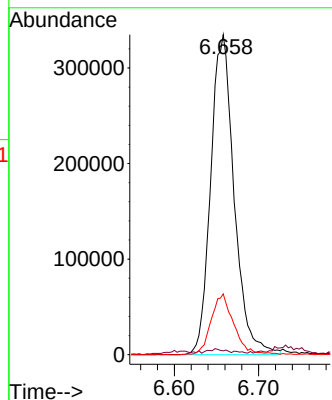
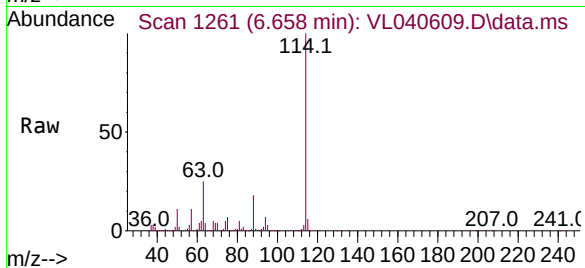
Tgt Ion: 63 Resp: 646563

Ion Ratio Lower Upper

63 100

41 0.1 54.3 81.5#

62 19.0 55.6 83.4#



#41

Tetrahydrofuran

Concen: 6.402 ppbv

RT: 5.214 min Scan# 812

Delta R.T. -0.351 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

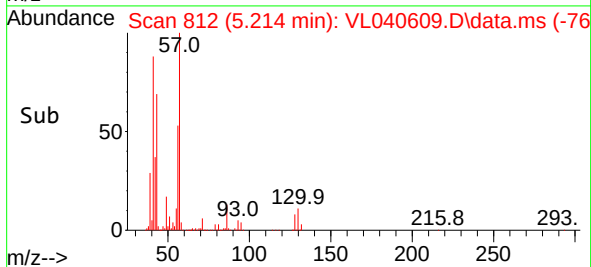
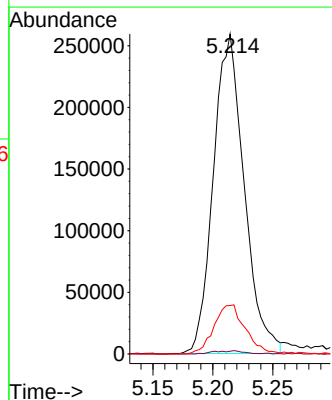
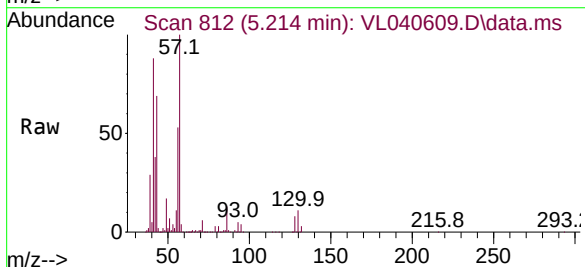
Tgt Ion: 42 Resp: 462376

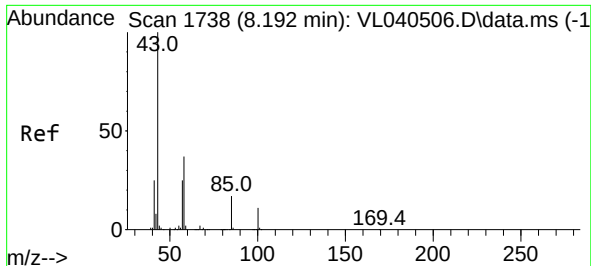
Ion Ratio Lower Upper

42 100

72 1.1 33.8 50.8#

71 16.1 33.0 49.6#

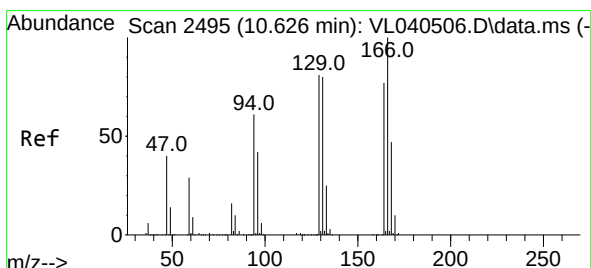
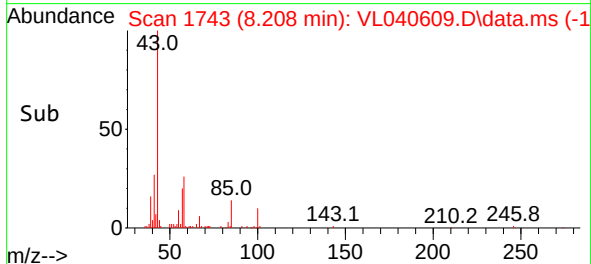
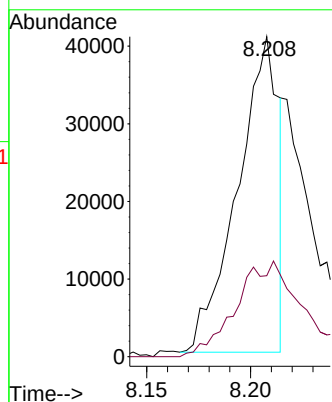
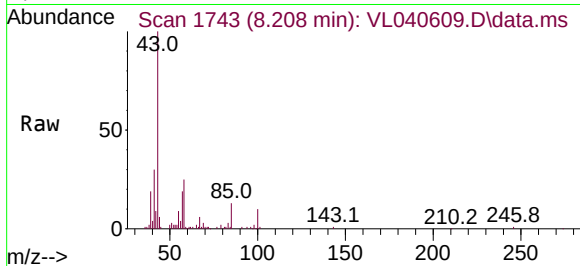




#50
4-Methyl-2-Pentanone
Concen: 0.311 ppbv
RT: 8.208 min Scan# 1738
Delta R.T. 0.016 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

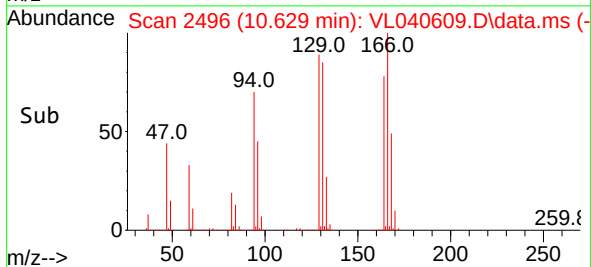
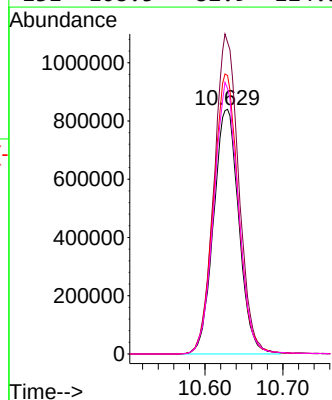
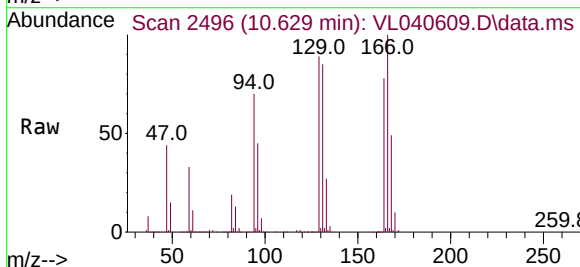
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

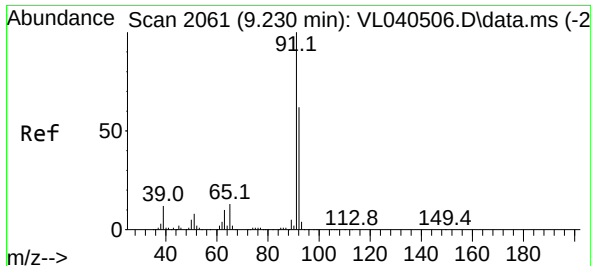
Tgt Ion: 43 Resp: 55923
Ion Ratio Lower Upper
43 100
58 51.4 30.2 45.2#



#52
Tetrachloroethene
Concen: 28.942 ppbv
RT: 10.629 min Scan# 2496
Delta R.T. 0.003 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion:164 Resp: 1888749
Ion Ratio Lower Upper
164 100
166 127.4 103.9 155.9
129 113.7 84.6 126.8
131 108.5 82.9 124.3

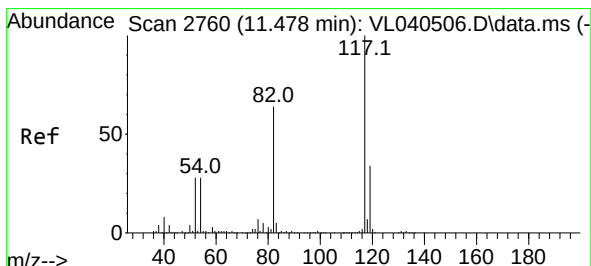
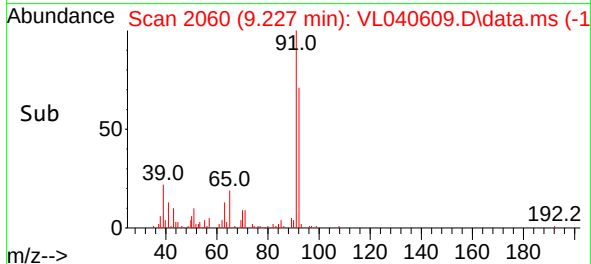
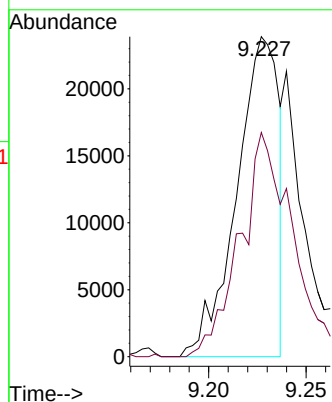
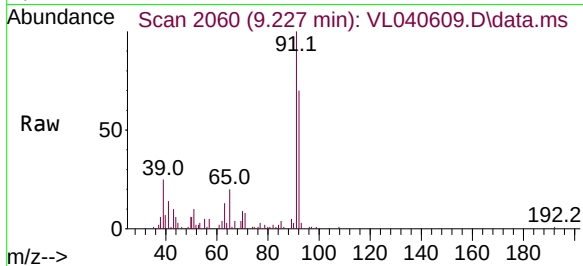




#53
Toluene
Concen: 0.164 ppbv
RT: 9.227 min Scan# 2061
Delta R.T. -0.003 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

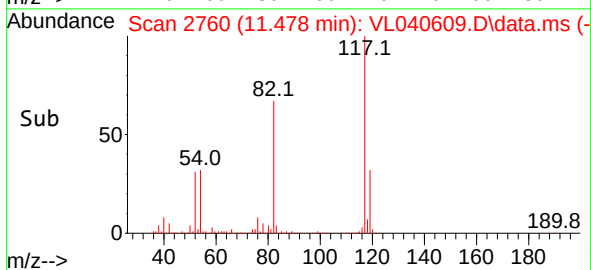
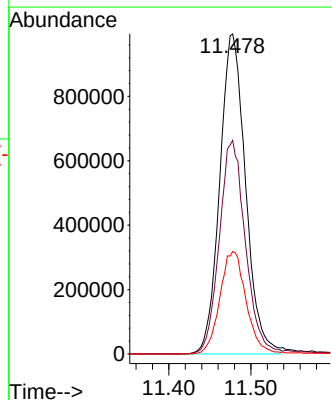
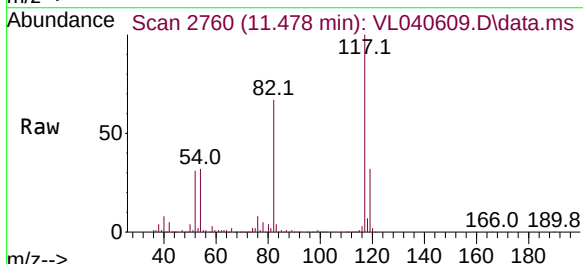
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

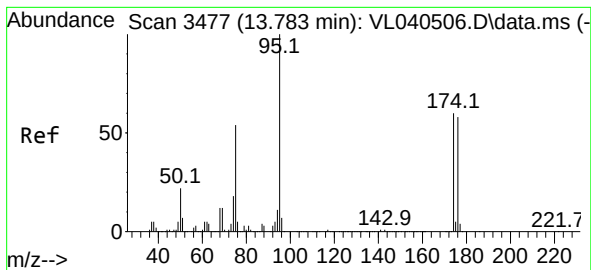
Tgt Ion: 91 Resp: 35793
Ion Ratio Lower Upper
91 100
92 89.2 49.1 73.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. -0.000 min
Lab File: VL040609.D
Acq: 9 Aug 2023 17:16

Tgt Ion: 117 Resp: 2168990
Ion Ratio Lower Upper
117 100
82 68.8 50.2 75.4
119 33.2 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.300 ppbv

RT: 13.790 min Scan# 34

Delta R.T. 0.006 min

Lab File: VL040609.D

Acq: 9 Aug 2023 17:16

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

Tgt Ion: 95 Resp: 1768126

Ion Ratio Lower Upper

95 100

174 58.9 50.6 75.8

175 4.2 3.7 5.5

