

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040859.D
 Acq On : 14 Nov 2023 20:31
 Operator : SY/MD
 Sample : 05275-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 16 04:51:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

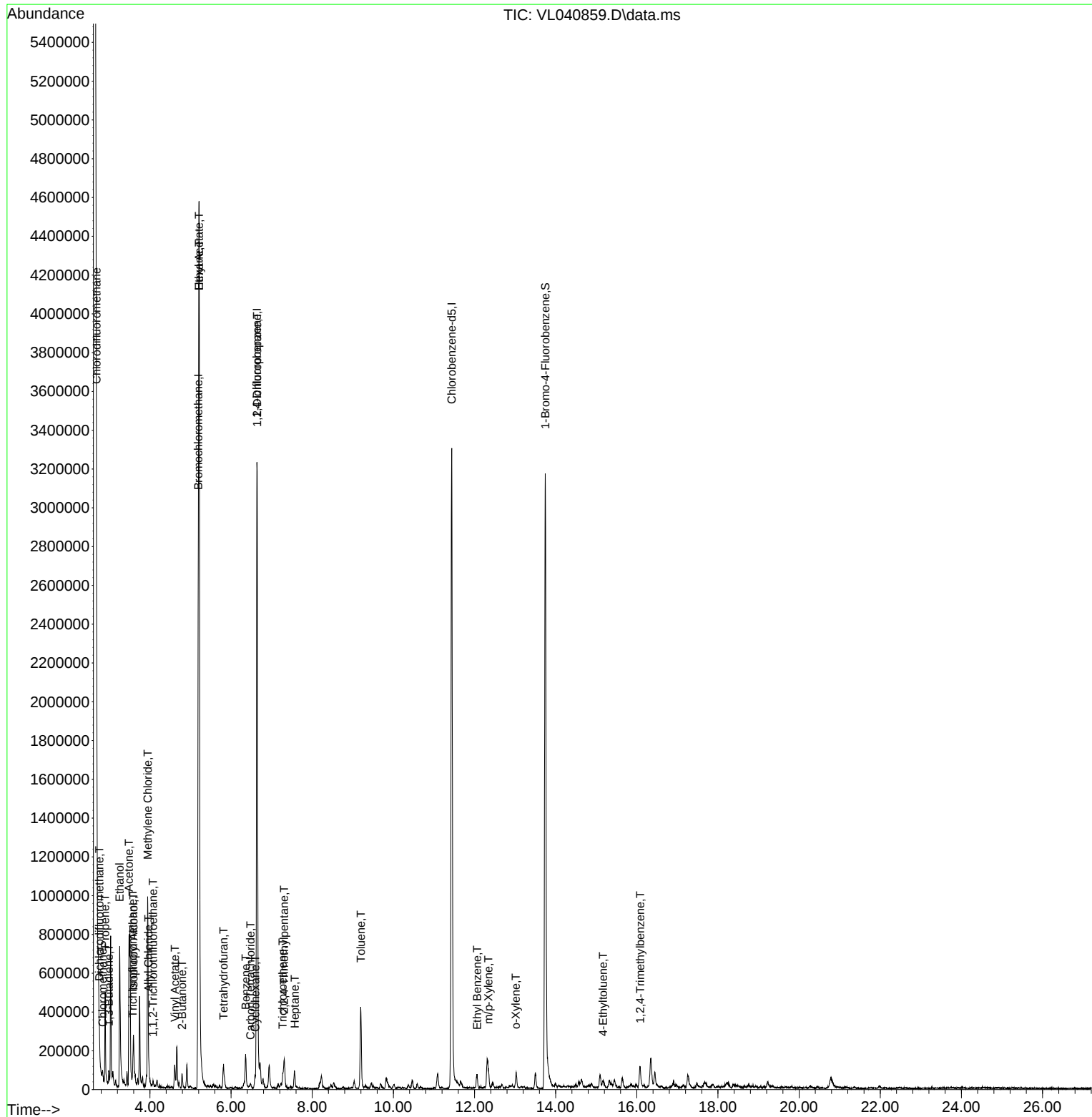
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.192	49	936786	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2481553	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2223977	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1696475	9.743	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	92098	0.485	ppbv	96
3) Chlorodifluoromethane	2.681	51	323484	2.163	ppbv #	64
4) Chloromethane	2.835	50	26933	0.501	ppbv	93
9) Propene	2.896	41	106904	2.121	ppbv	91
10) Heptane	7.568	43	16009	0.129	ppbv #	28
11) Trichlorofluoromethane	3.578	101	34659	0.238	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.079	101	7039	0.068	ppbv	88
13) Ethanol	3.256	45	759191	77.566	ppbv #	100
15) Acetone	3.485	43	932624	9.348	ppbv	91
16) 1,3-Butadiene	2.986	39	16188	0.321	ppbv #	58
19) Isopropyl Alcohol	3.594	45	289160	4.816	ppbv	99
20) Methylene Chloride	3.948	84	303364	7.368	ppbv	93
21) Allyl Chloride	3.964	41	5535	0.087	ppbv #	1
23) Vinyl Acetate	4.616	43	23033	0.179	ppbv #	1
25) Ethyl Acetate	5.211	43	1232269	5.965	ppbv #	77
26) Hexane	5.211	57	1722265	18.837	ppbv #	41
30) Cyclohexane	6.600	84	6760	0.086	ppbv #	1
34) 2-Butanone	4.793	43	83096	0.657	ppbv	96
35) Carbon Tetrachloride	6.478	117	8441	0.055	ppbv #	89
36) Benzene	6.359	78	129454	0.643	ppbv	94
38) Trichloroethene	7.272	130	17698	0.226	ppbv	95
39) 1,2-Dichloropropane	6.642	63	605822	7.587	ppbv #	24
41) Tetrahydrofuran	5.812	42	12503	0.161	ppbv #	39
44) 2,2,4-Trimethylpentane	7.311	57	128191	0.383	ppbv #	90
53) Toluene	9.195	91	310975	1.403	ppbv	98
58) Ethyl Benzene	12.063	91	28976	0.100	ppbv	93
59) m/p-Xylene	12.343	91	39494	0.160	ppbv #	32
60) o-Xylene	13.021	91	61828	0.263	ppbv	97
72) 4-Ethyltoluene	15.169	105	10117	0.039	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.082	105	29838	0.117	ppbv #	58

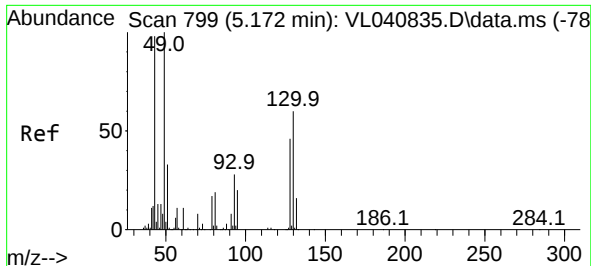
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
Data File : VL040859.D
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :

Quant Time: Nov 16 04:51:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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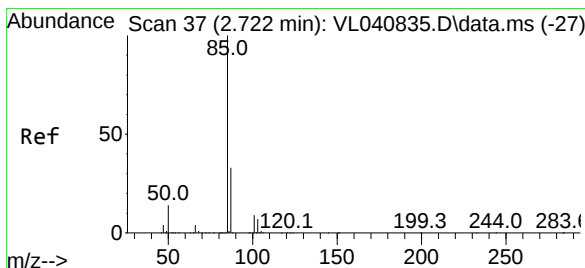
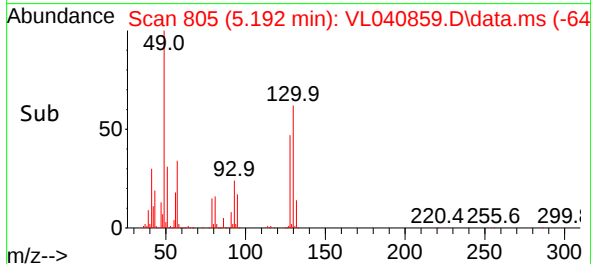
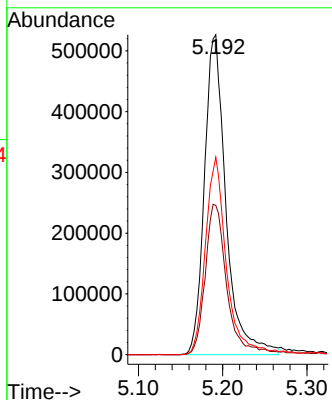
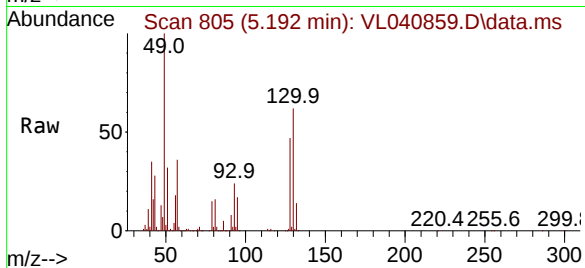




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.020 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31

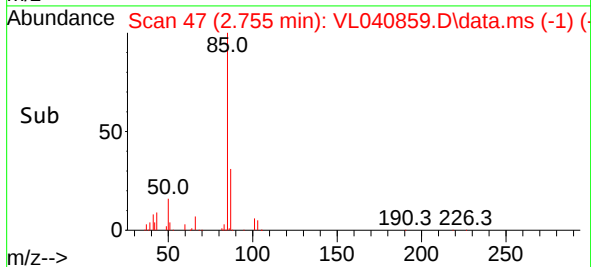
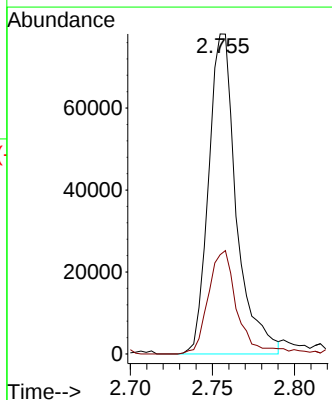
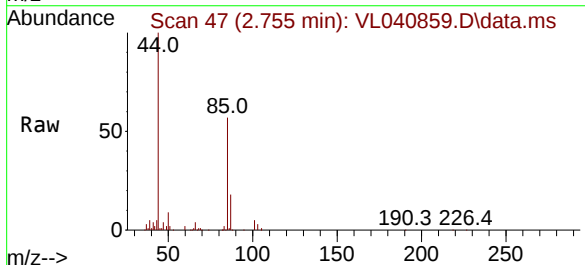
Instrument :
 MSVOA_L
 ClientSampleId :

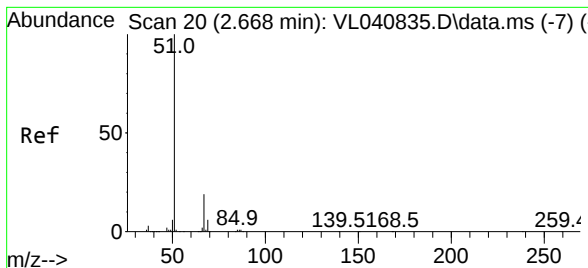
Tgt Ion: 49 Resp: 936786
 Ion Ratio Lower Upper
 49 100
 128 48.6 23.8 71.2
 130 61.3 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.485 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. 0.032 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31

Tgt Ion: 85 Resp: 92098
 Ion Ratio Lower Upper
 85 100
 87 31.0 26.7 40.1





#3

Chlorodifluoromethane

Concen: 2.163 ppbv

RT: 2.681 min Scan# 24

Delta R.T. 0.013 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

Instrument :

MSVOA_L

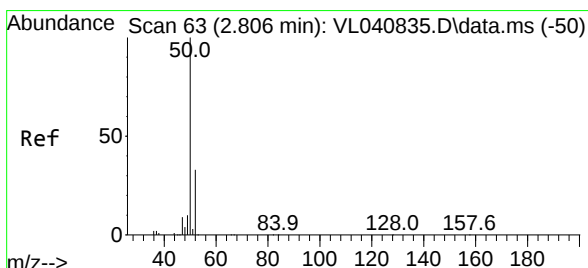
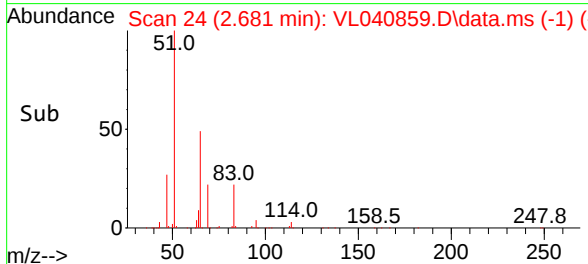
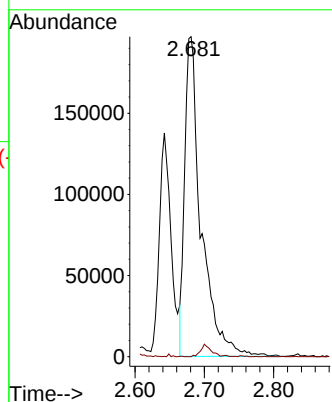
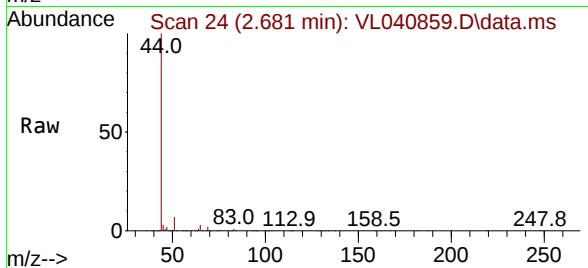
ClientSampleId :

Tgt Ion: 51 Resp: 323484

Ion Ratio Lower Upper

51 100

67 2.7 15.0 22.4#



#4

Chloromethane

Concen: 0.501 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.029 min

Lab File: VL040859.D

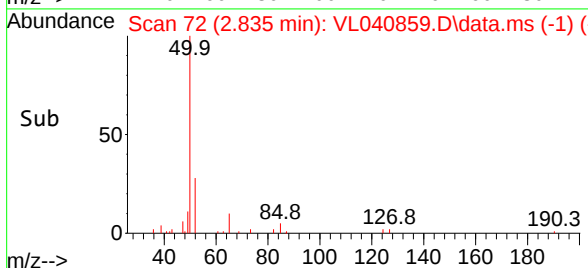
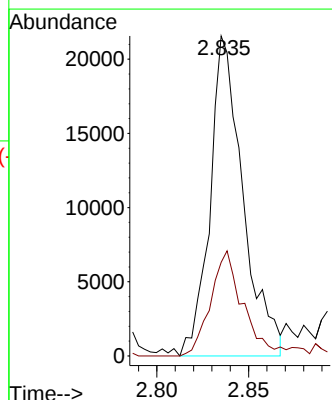
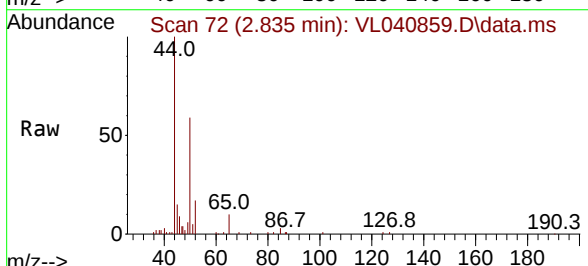
Acq: 14 Nov 2023 20:31

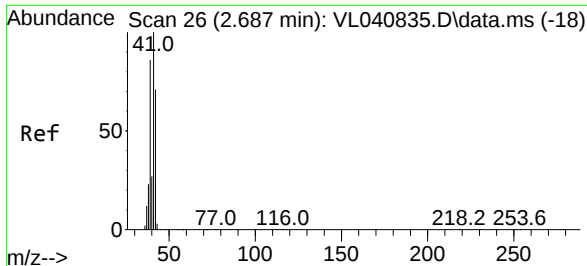
Tgt Ion: 50 Resp: 26933

Ion Ratio Lower Upper

50 100

52 29.2 26.5 39.7

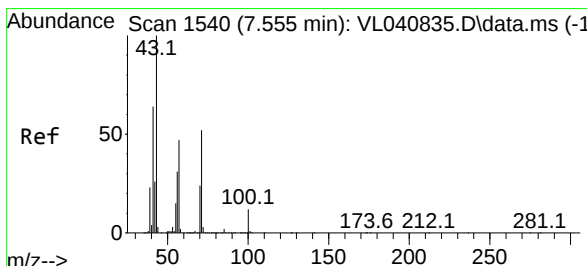
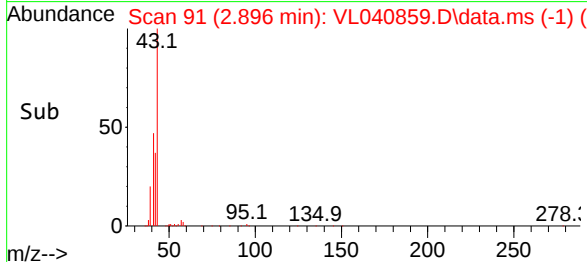
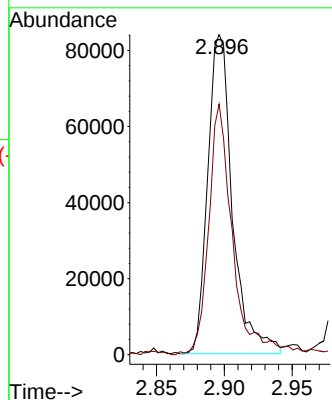
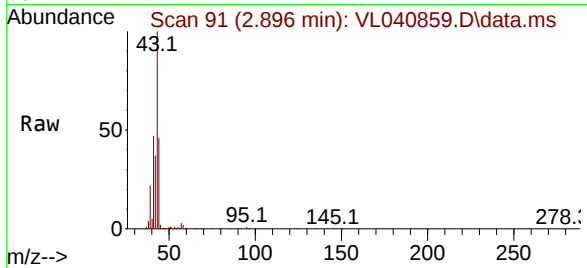




#9
Propene
Concen: 2.121 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.209 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

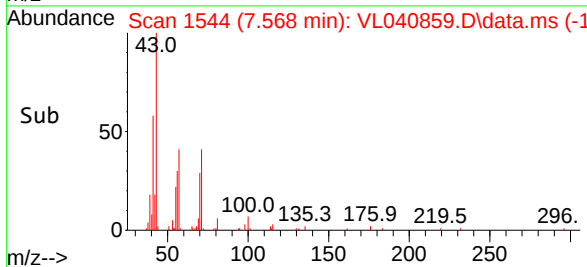
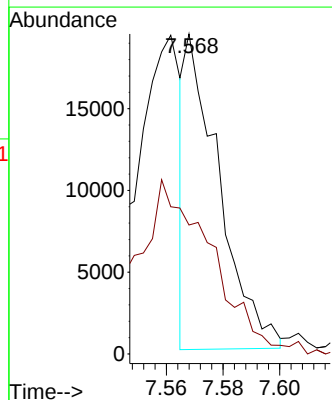
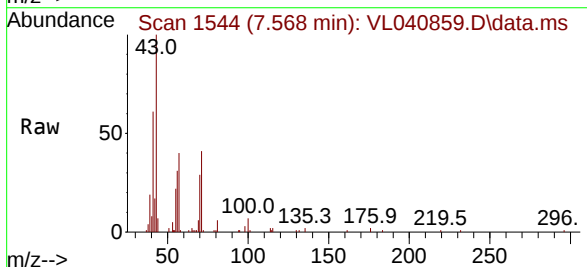
Instrument :
MSVOA_L
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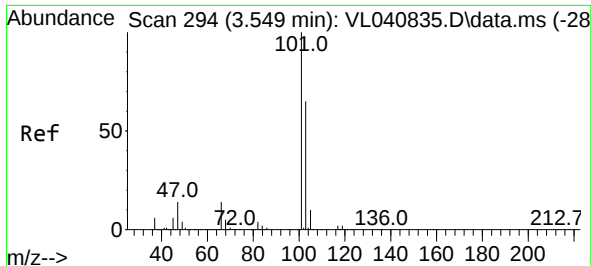
Tgt Ion: 41 Resp: 106904
Ion Ratio Lower Upper
41 100
42 77.8 56.5 84.7



#10
Heptane
Concen: 0.129 ppbv
RT: 7.568 min Scan# 1544
Delta R.T. 0.013 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion: 43 Resp: 16009
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.0#

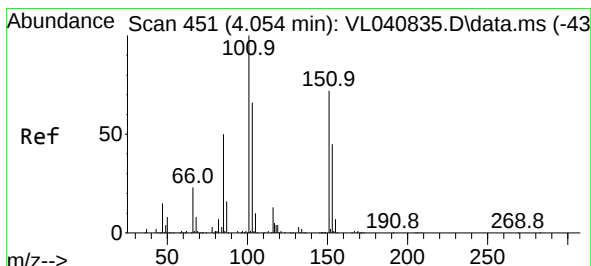
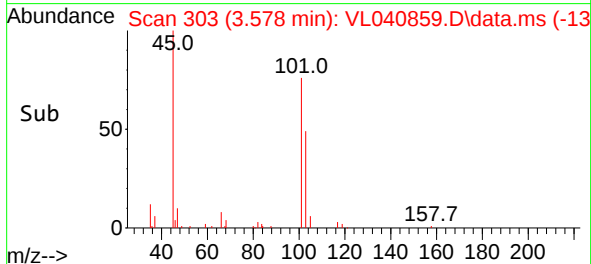
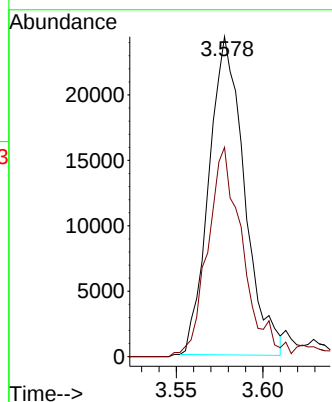
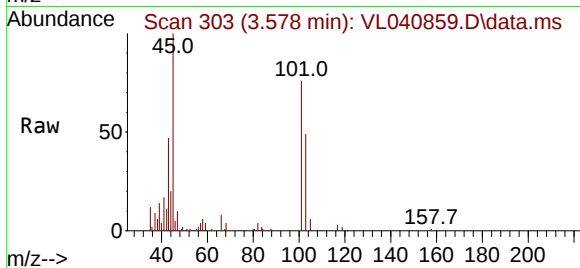




#11
 Trichlorofluoromethane
 Concen: 0.238 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.029 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31

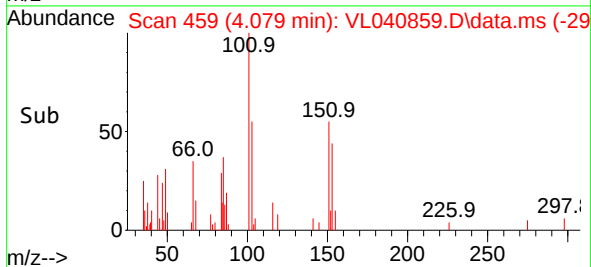
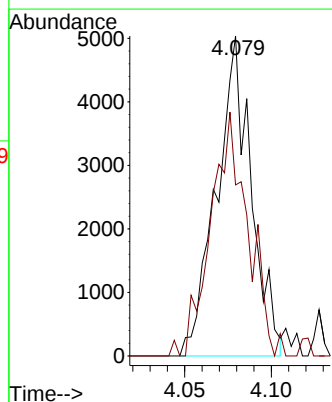
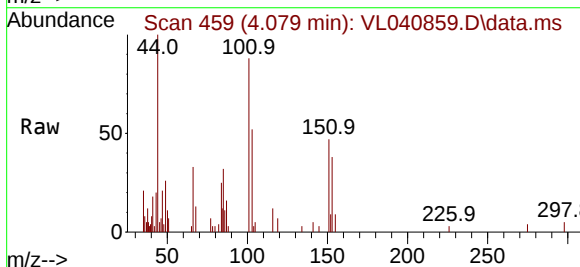
Instrument :
 MSVOA_L
 ClientSampleId :

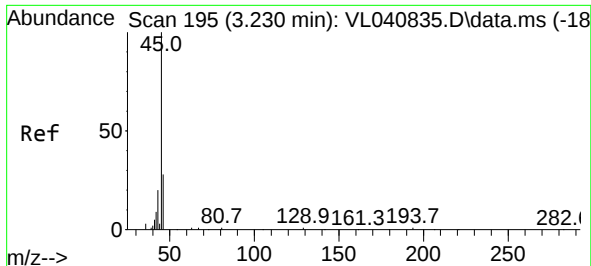
Tgt Ion:101 Resp: 34659
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.068 ppbv
 RT: 4.079 min Scan# 459
 Delta R.T. 0.026 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31

Tgt Ion:101 Resp: 7039
 Ion Ratio Lower Upper
 101 100
 151 82.5 57.8 86.6

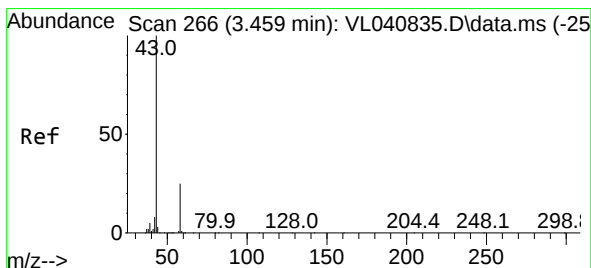
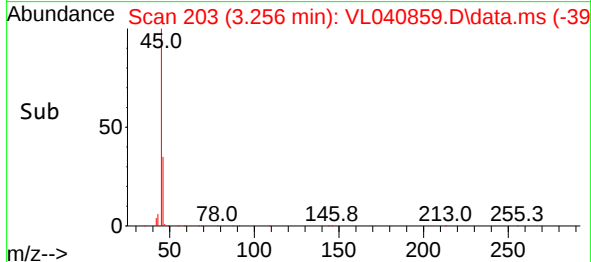
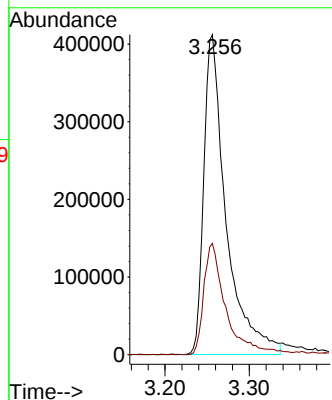
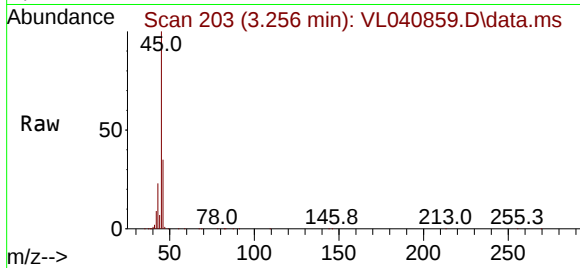




#13
Ethanol
Concen: 77.566 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

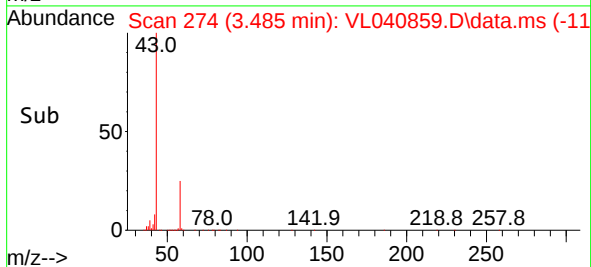
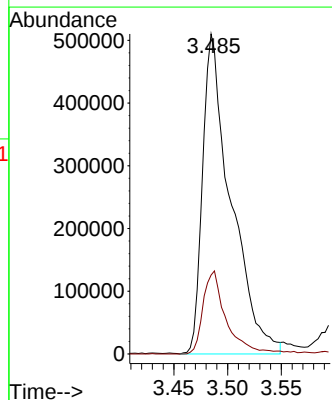
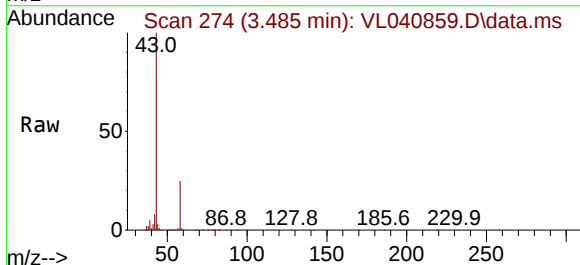
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ClientSampleId :

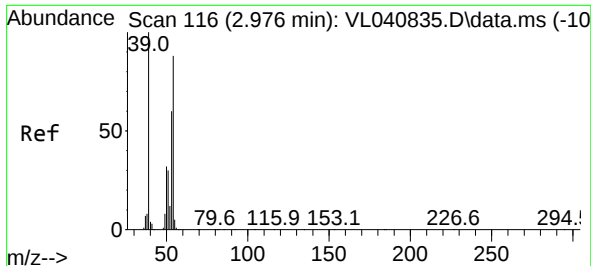
Tgt Ion: 45 Resp: 759191
Ion Ratio Lower Upper
45 100
46 35.7 0.0 0.0#



#15
Acetone
Concen: 9.348 ppbv
RT: 3.485 min Scan# 274
Delta R.T. 0.026 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion: 43 Resp: 932624
Ion Ratio Lower Upper
43 100
58 21.7 20.9 31.3





#16

1,3-Butadiene

Concen: 0.321 ppbv

RT: 2.986 min Scan# 116

Delta R.T. 0.010 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

Instrument :

MSVOA_L

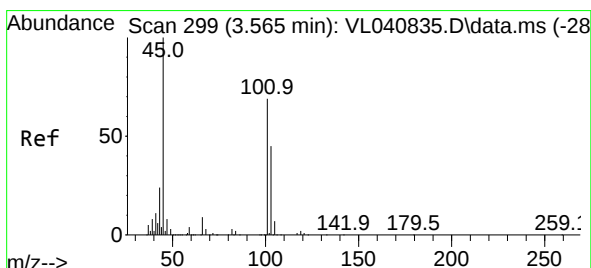
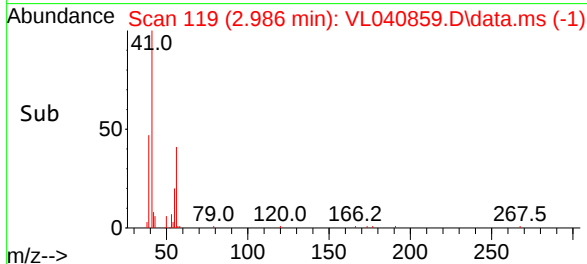
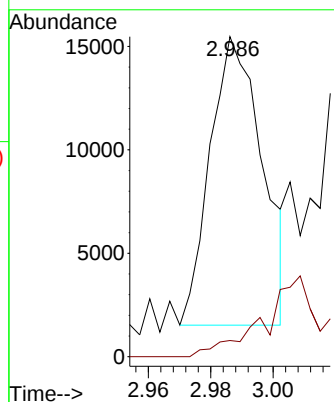
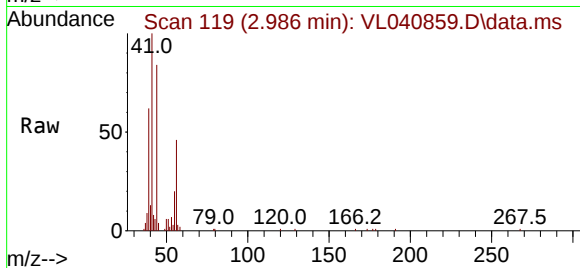
ClientSampleId :

Tgt Ion: 39 Resp: 16188

Ion Ratio Lower Upper

39 100

54 41.2 61.8 92.6#



#19

Isopropyl Alcohol

Concen: 4.816 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.029 min

Lab File: VL040859.D

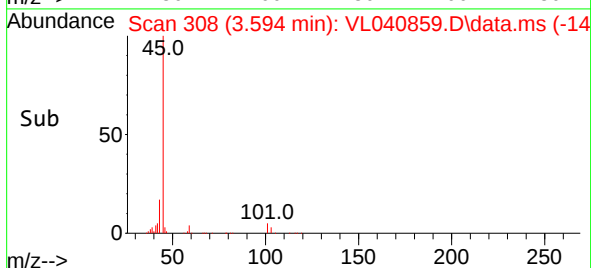
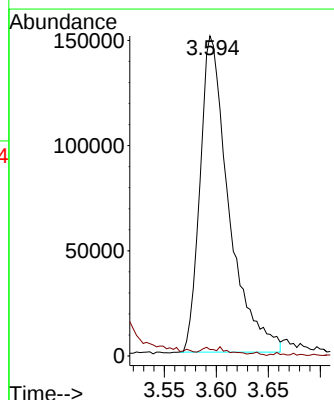
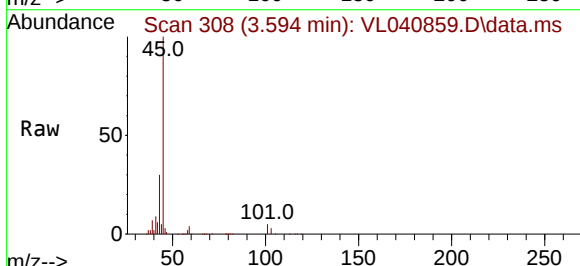
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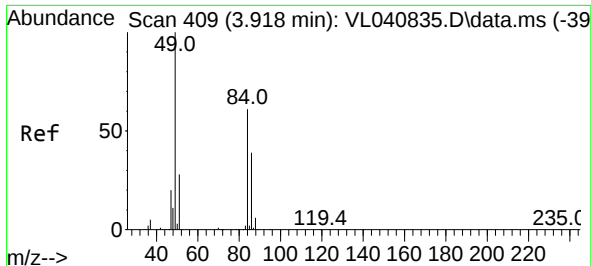
Tgt Ion: 45 Resp: 289160

Ion Ratio Lower Upper

45 100

58 2.3 1.6 2.4

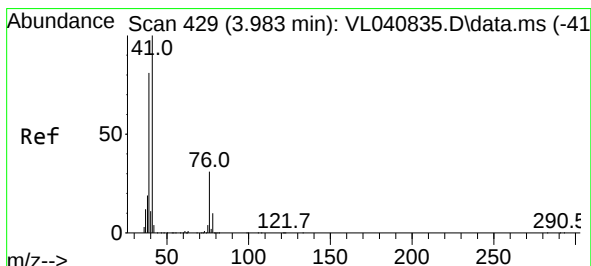
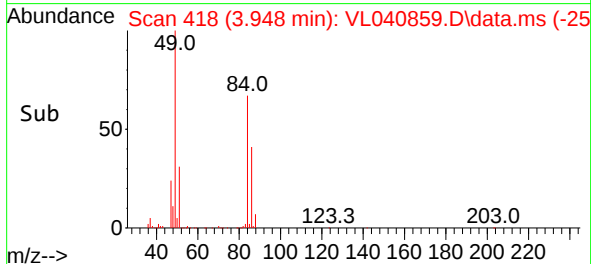
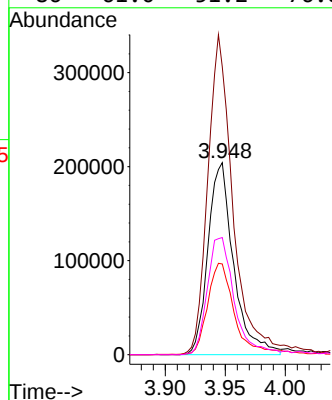
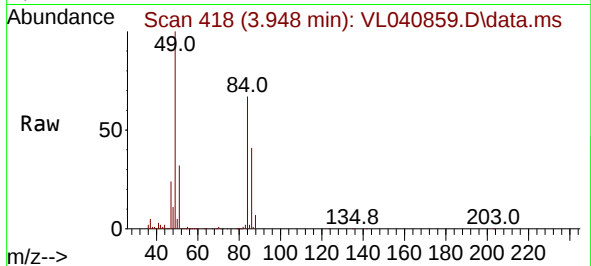




#20
Methylene Chloride
Concen: 7.368 ppbv
RT: 3.948 min Scan# 418
Delta R.T. 0.029 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

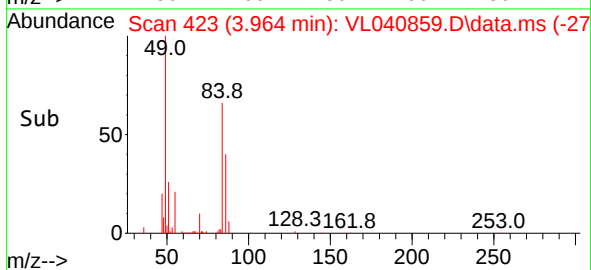
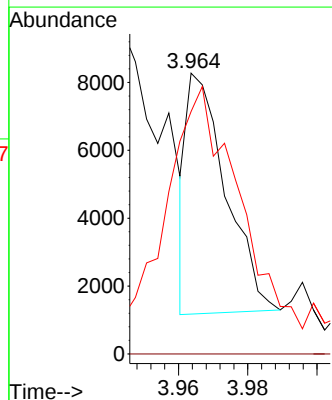
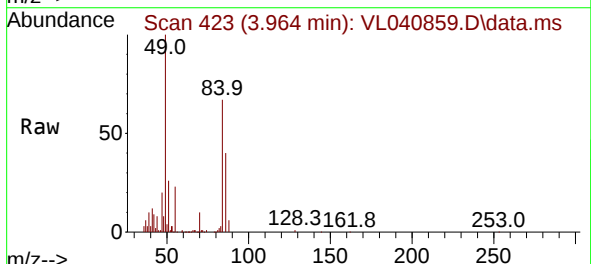
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MSVOA_L
ClientSampleId :

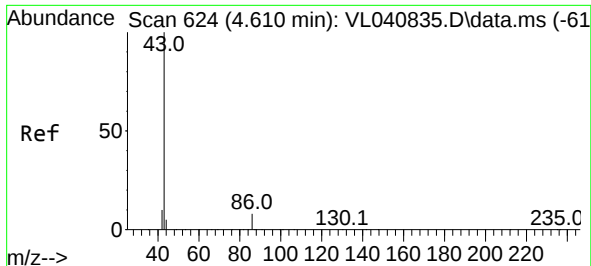
Tgt Ion: 84 Resp: 303364
Ion Ratio Lower Upper
84 100
49 150.0 131.0 196.4
51 47.0 36.9 55.3
86 61.0 51.2 76.8



#21
Allyl Chloride
Concen: 0.087 ppbv
RT: 3.964 min Scan# 423
Delta R.T. -0.019 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

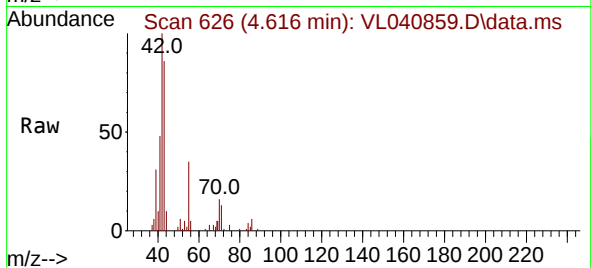
Tgt Ion: 41 Resp: 5535
Ion Ratio Lower Upper
41 100
76 0.0 24.4 36.6#
39 217.3 68.1 102.1#



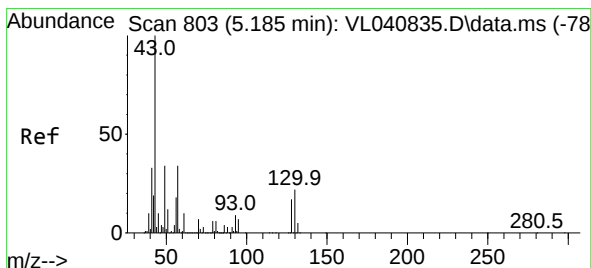
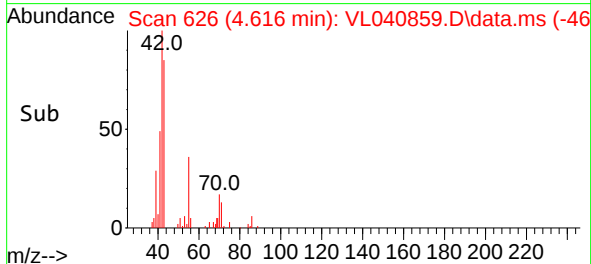
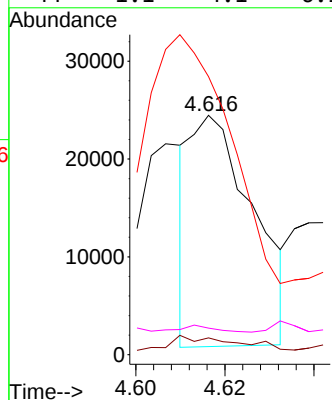


#23
Vinyl Acetate
Concen: 0.179 ppbv
RT: 4.616 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Instrument :
MSVOA_L
ClientSampleId :

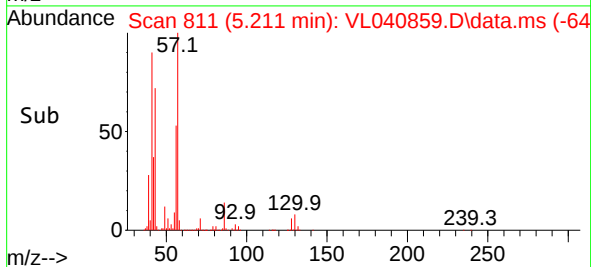
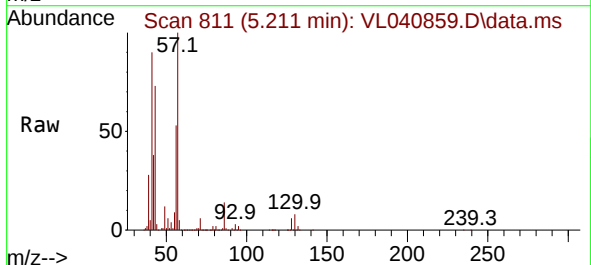
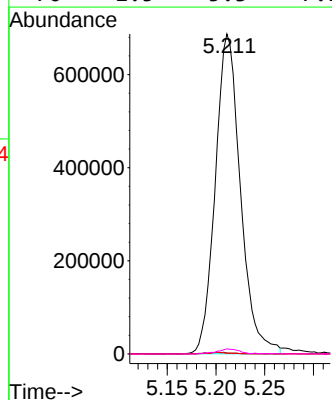


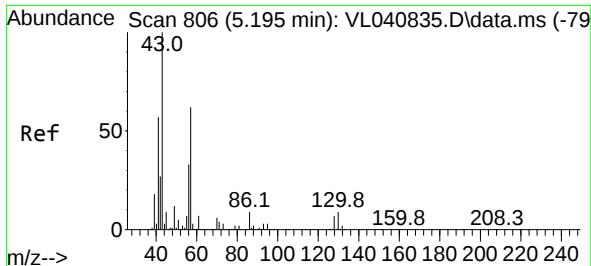
Tgt Ion:	43	Resp:	23033
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	154.1	8.2	12.2#
44	1.1	4.1	6.1#



#25
Ethyl Acetate
Concen: 5.965 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

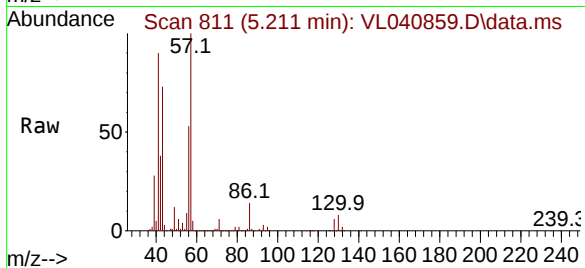
Tgt Ion:	43	Resp:	1232269
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.1	12.1#
61	0.5	7.8	11.6#
70	1.5	5.3	7.9#





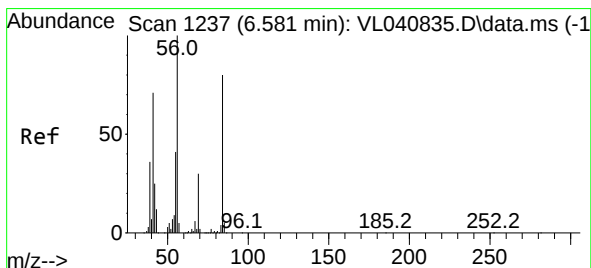
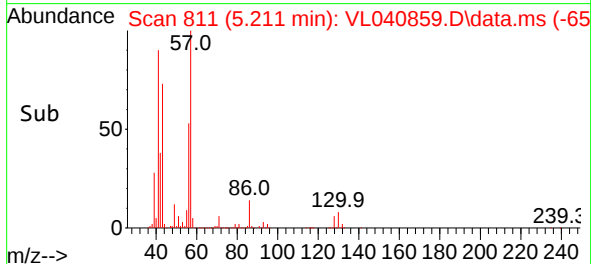
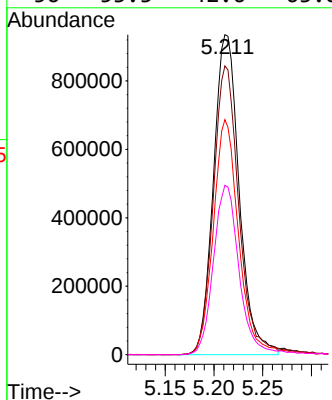
#26
Hexane
Concen: 18.837 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1722265

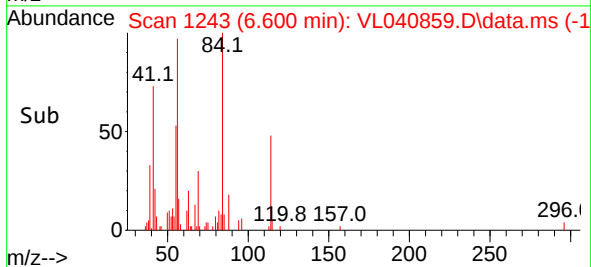
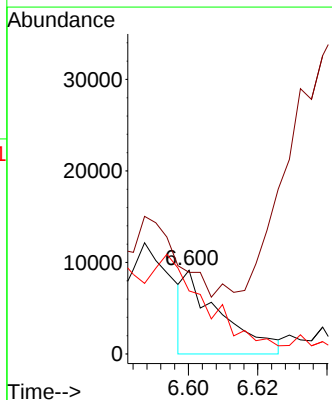
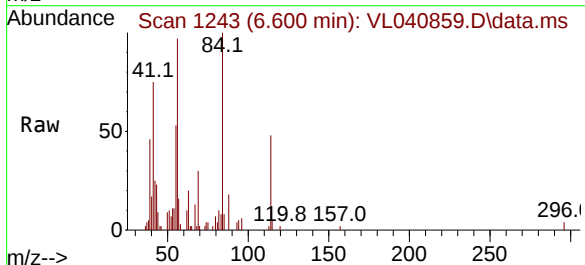
Ion	Ratio	Lower	Upper
57	100		
41	91.2	75.4	113.0
43	73.1	185.9	278.9#
56	53.3	42.6	63.8

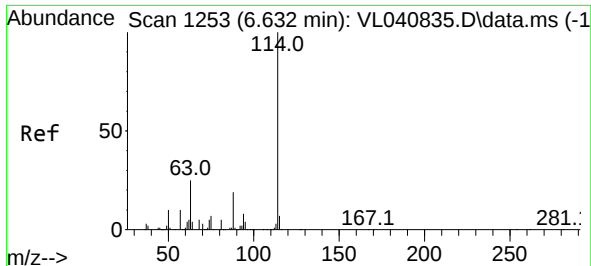


#30
Cyclohexane
Concen: 0.086 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. 0.019 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion: 84 Resp: 6760

Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.3	163.9#
41	0.0	71.4	107.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

Instrument :

MSVOA_L

ClientSampleId :

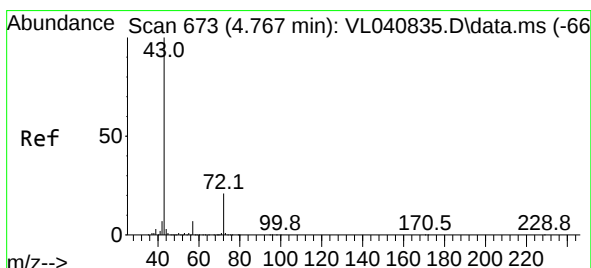
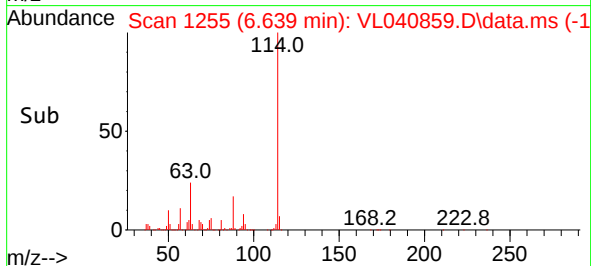
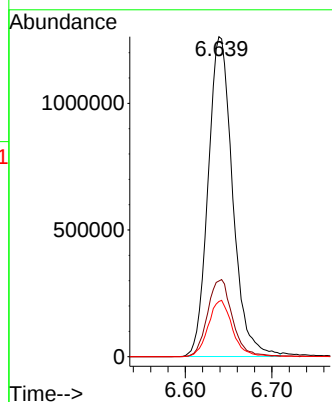
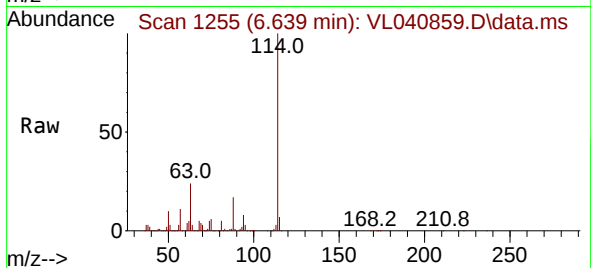
Tgt Ion:114 Resp: 2481553

Ion Ratio Lower Upper

114 100

63 24.8 20.9 31.3

88 17.6 14.3 21.5



#34

2-Butanone

Concen: 0.657 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040859.D

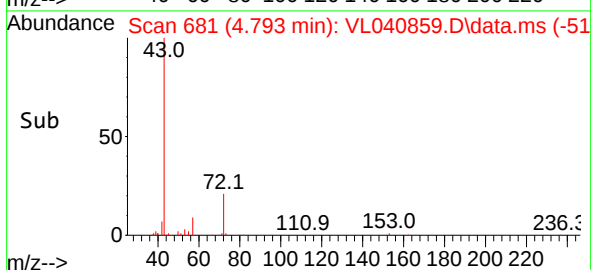
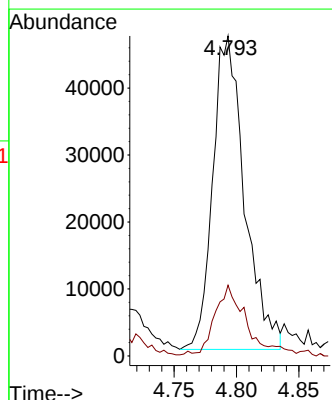
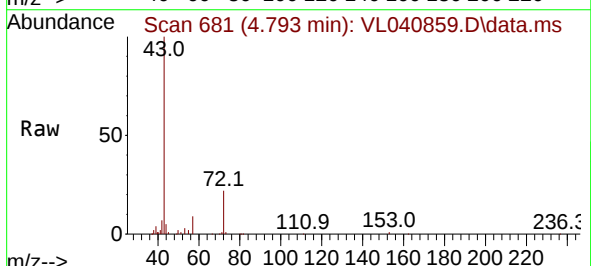
Acq: 14 Nov 2023 20:31

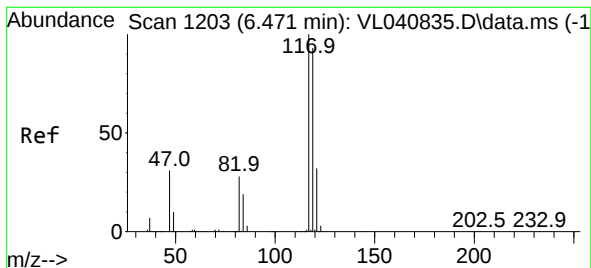
Tgt Ion: 43 Resp: 83096

Ion Ratio Lower Upper

43 100

72 23.5 17.2 25.8





#35

Carbon Tetrachloride

Concen: 0.055 ppbv

RT: 6.478 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

Instrument :

MSVOA_L

ClientSampleId :

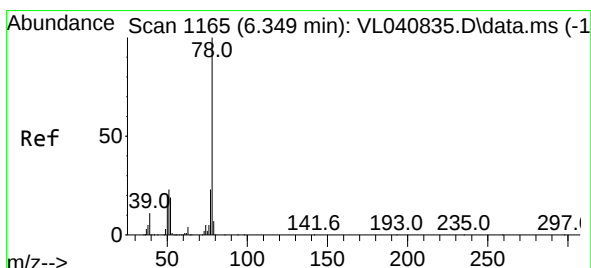
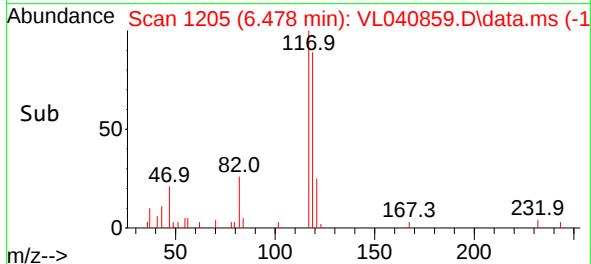
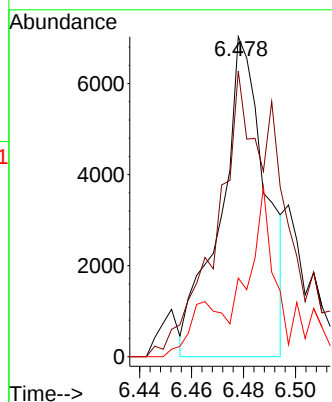
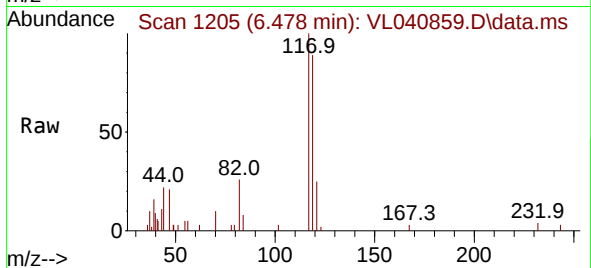
Tgt Ion:117 Resp: 8441

Ion Ratio Lower Upper

117 100

119 84.7 74.7 112.1

121 22.8 25.5 38.3#



#36

Benzene

Concen: 0.643 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

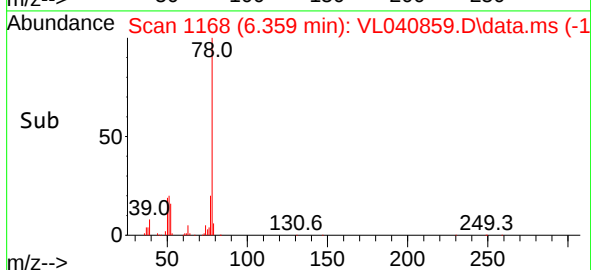
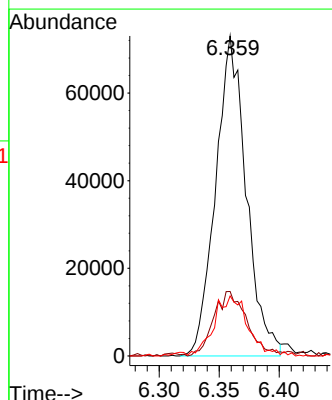
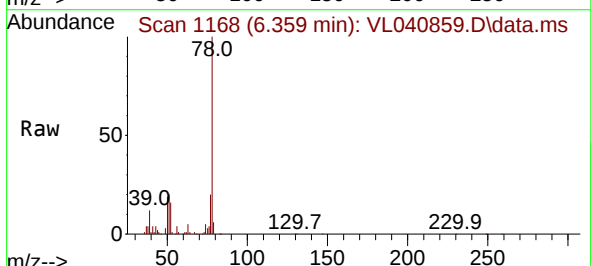
Tgt Ion: 78 Resp: 129454

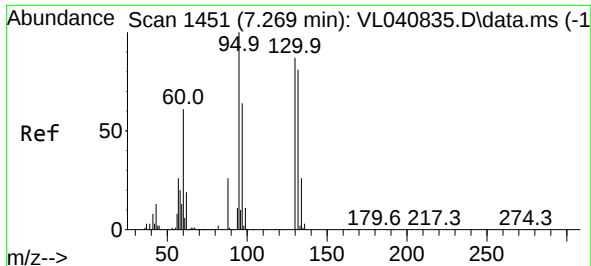
Ion Ratio Lower Upper

78 100

77 19.7 18.4 27.6

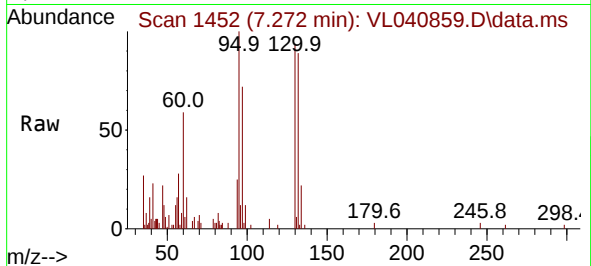
50 18.3 16.2 24.2



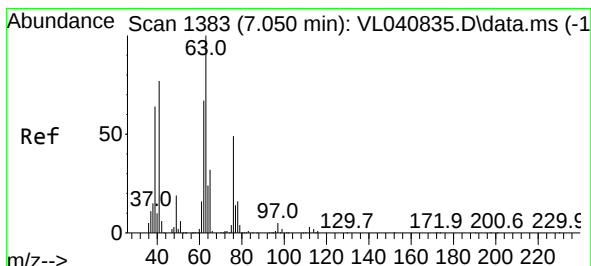
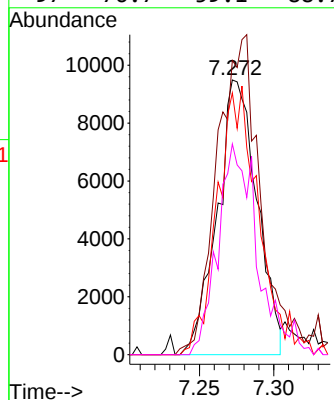
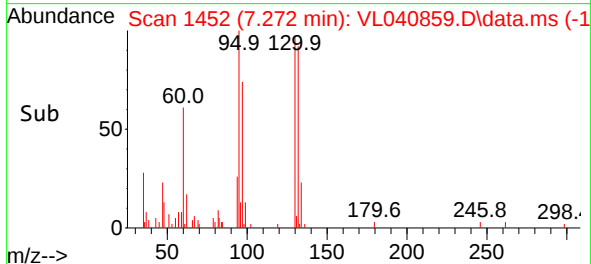


#38
 Trichloroethene
 Concen: 0.226 ppbv
 RT: 7.272 min Scan# 1451
 Delta R.T. 0.003 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31

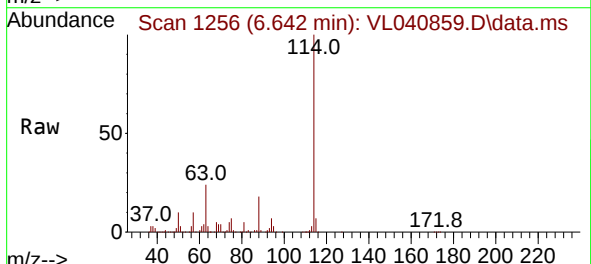
Instrument :
 MSVOA_L
 ClientSampleId :



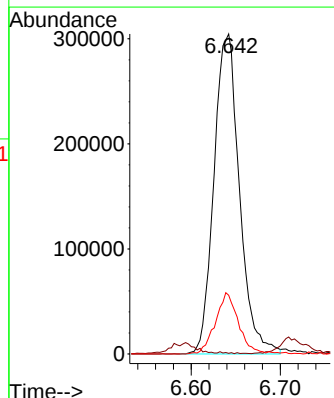
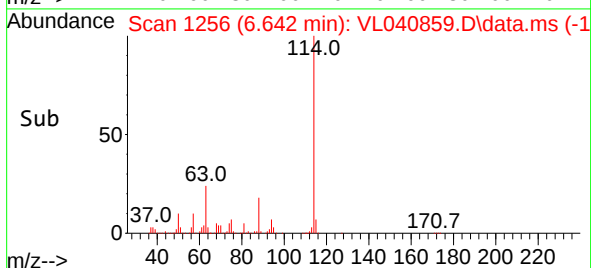
Tgt Ion:	130	Resp:	17698
Ion	Ratio	Lower	Upper
130	100		
95	104.9	92.4	138.6
132	95.3	75.1	112.7
97	76.7	59.1	88.7

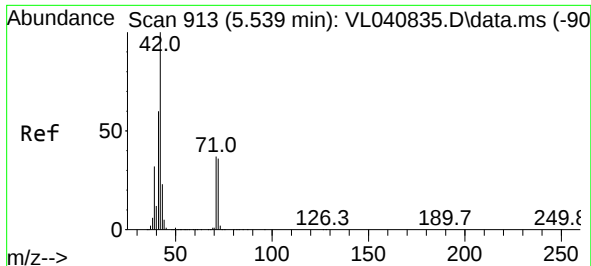


#39
 1,2-Dichloropropane
 Concen: 7.587 ppbv
 RT: 6.642 min Scan# 1256
 Delta R.T. -0.408 min
 Lab File: VL040859.D
 Acq: 14 Nov 2023 20:31



Tgt Ion:	63	Resp:	605822
Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	18.4	53.9	80.9#





#41

Tetrahydrofuran

Concen: 0.161 ppbv

RT: 5.812 min Scan# 913

Delta R.T. 0.273 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

Instrument :

MSVOA_L

ClientSampleId :

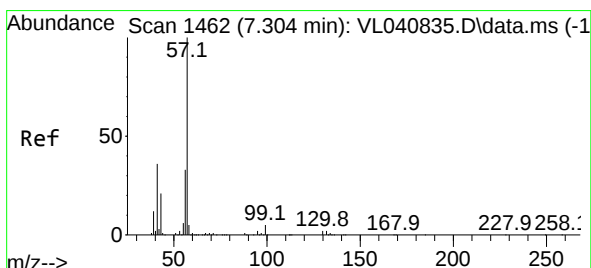
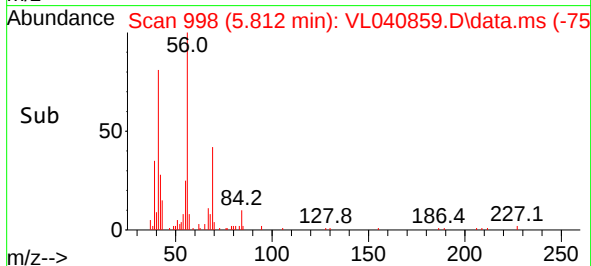
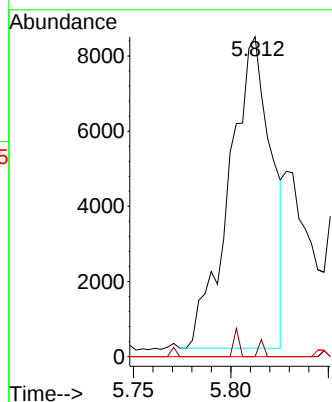
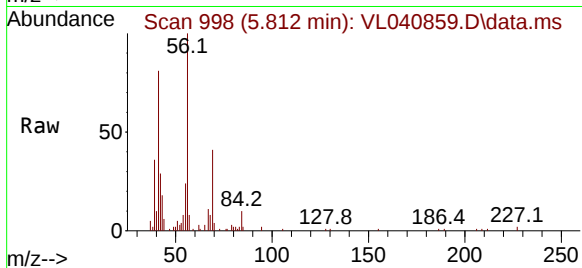
Tgt Ion: 42 Resp: 12503

Ion Ratio Lower Upper

42 100

72 1.9 30.8 46.2#

71 0.0 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.383 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.007 min

Lab File: VL040859.D

Acq: 14 Nov 2023 20:31

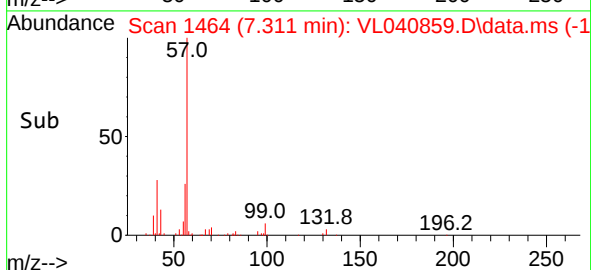
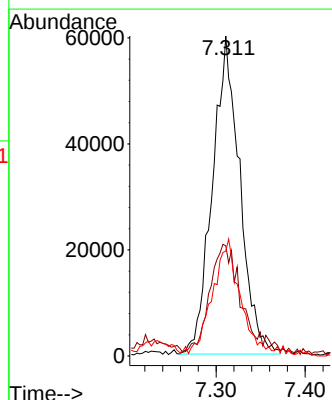
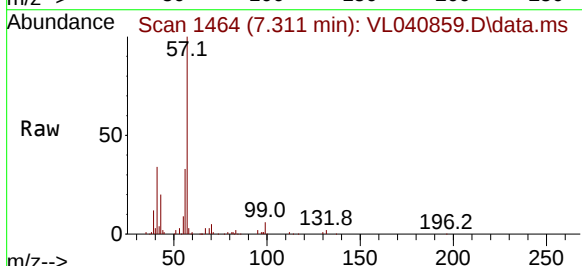
Tgt Ion: 57 Resp: 128191

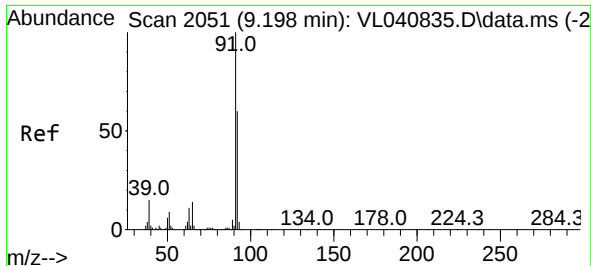
Ion Ratio Lower Upper

57 100

41 39.4 29.0 43.6

56 39.5 25.2 37.8#

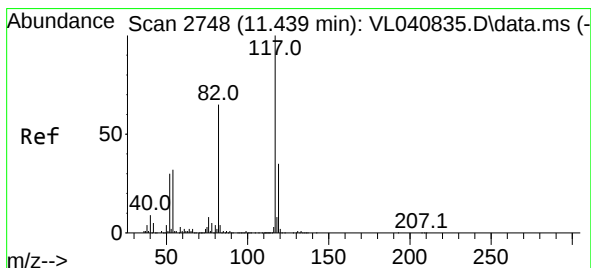
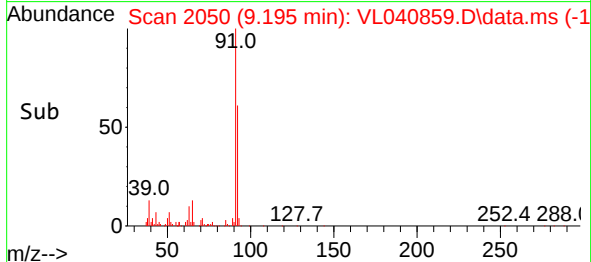
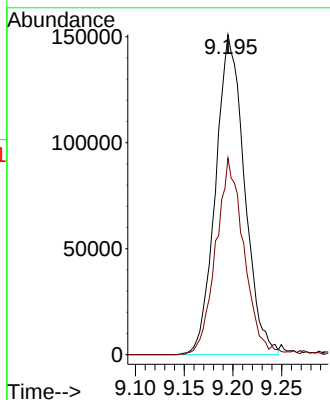
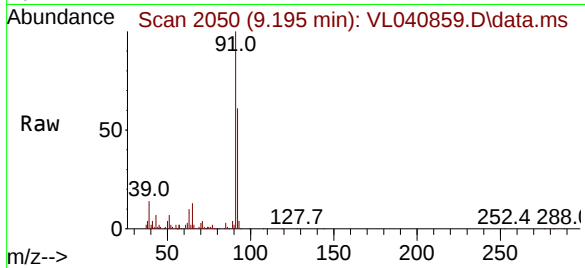




#53
Toluene
Concen: 1.403 ppbv
RT: 9.195 min Scan# 2051
Delta R.T. -0.003 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

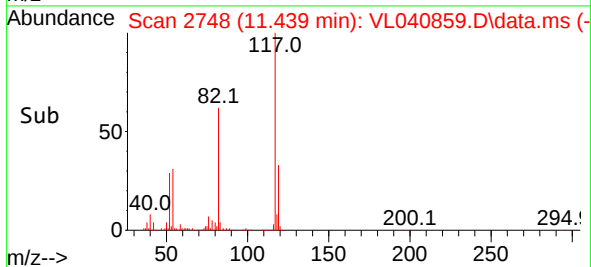
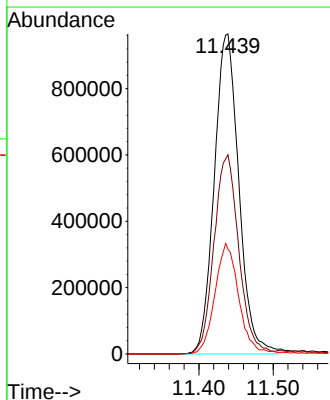
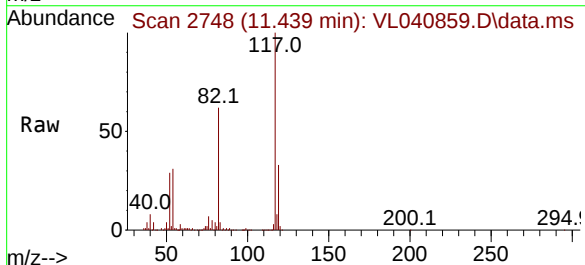
Instrument :
MSVOA_L
ClientSampleId :

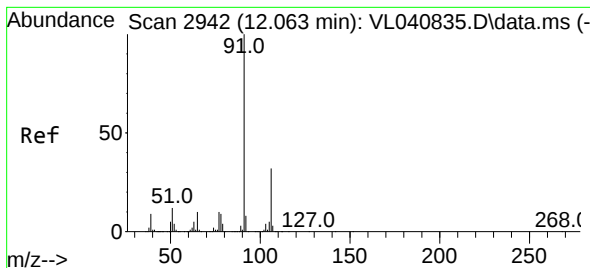
Tgt Ion: 91 Resp: 310975
Ion Ratio Lower Upper
91 100
92 60.6 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. 0.000 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion: 117 Resp: 2223977
Ion Ratio Lower Upper
117 100
82 64.3 50.6 75.8
119 33.8 23.3 34.9

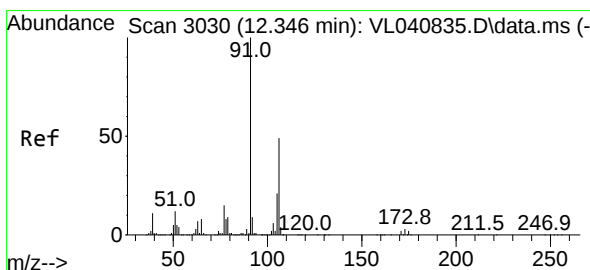
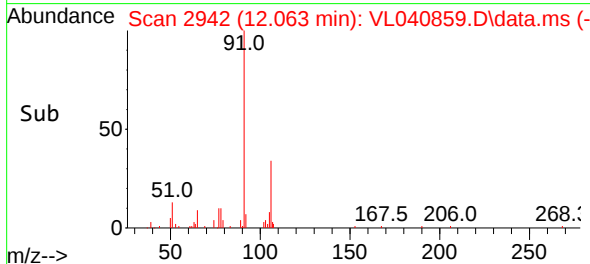
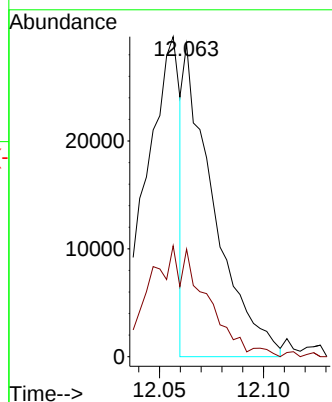
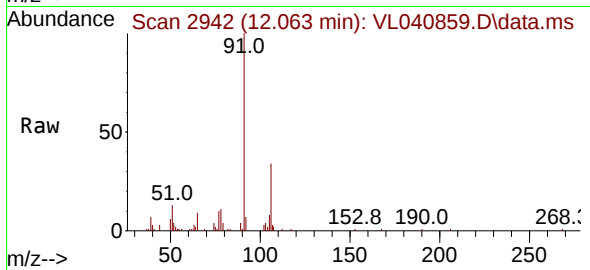




#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. 0.000 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

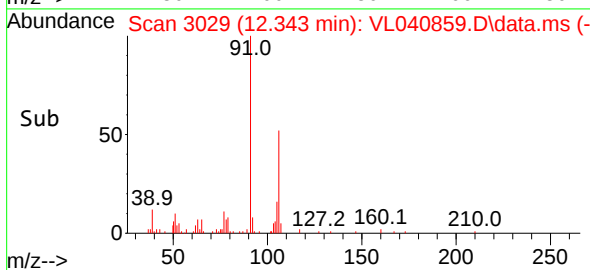
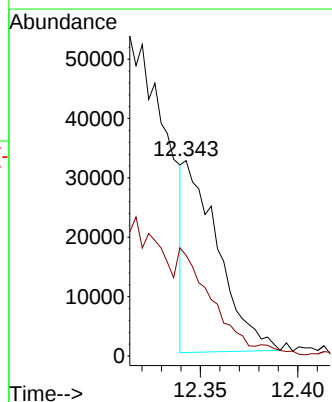
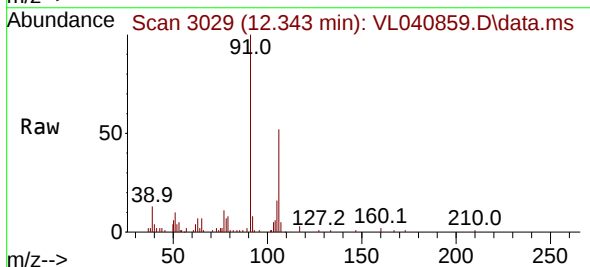
Instrument :
MSVOA_L
ClientSampleId :

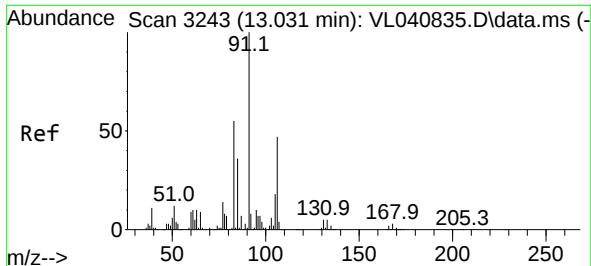
Tgt Ion: 91 Resp: 28976
Ion Ratio Lower Upper
91 100
106 35.3 25.2 37.8



#59
m/p-Xylene
Concen: 0.160 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. -0.003 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion: 91 Resp: 39494
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#

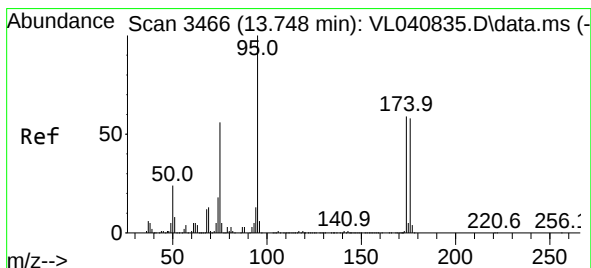
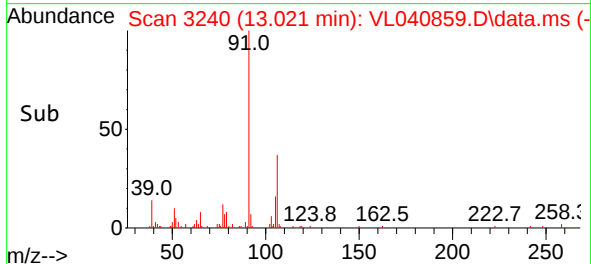
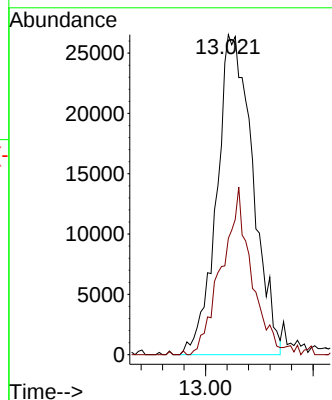
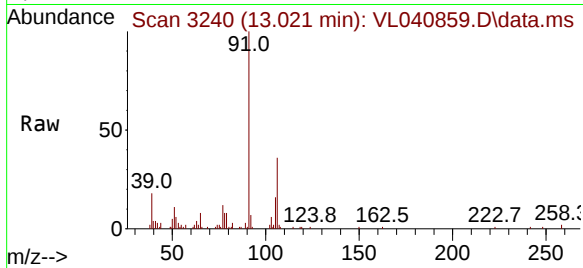




#60
o-Xylene
Concen: 0.263 ppbv
RT: 13.021 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

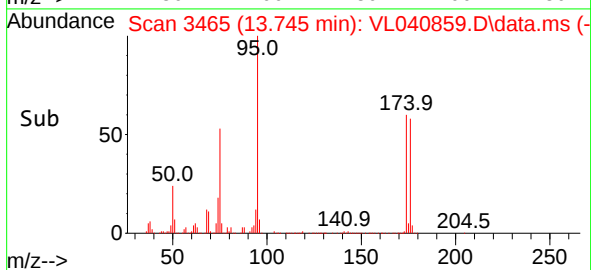
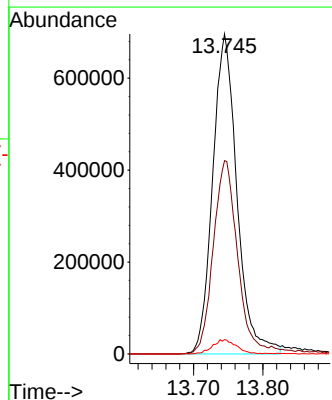
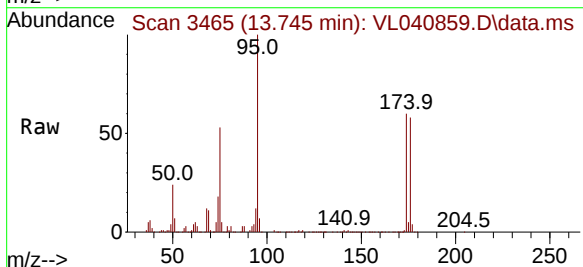
Instrument :
MSVOA_L
ClientSampleId :

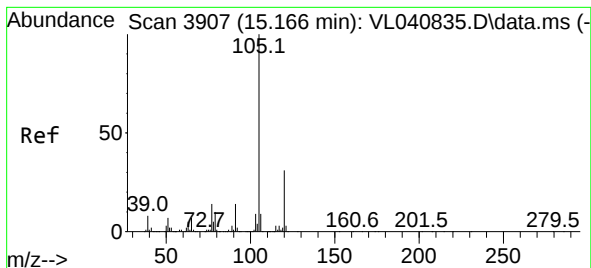
Tgt Ion: 91 Resp: 61828
Ion Ratio Lower Upper
91 100
106 43.5 22.9 68.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.743 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

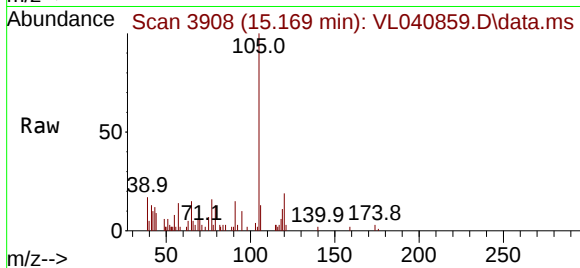
Tgt Ion: 95 Resp: 1696475
Ion Ratio Lower Upper
95 100
174 62.2 47.5 71.3
175 4.6 3.6 5.4



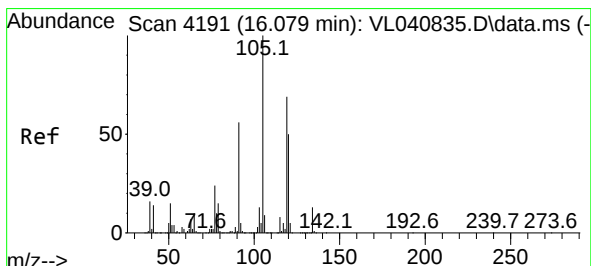
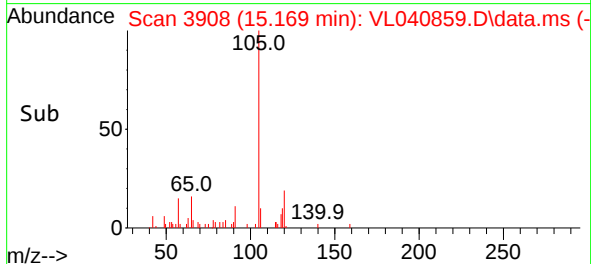
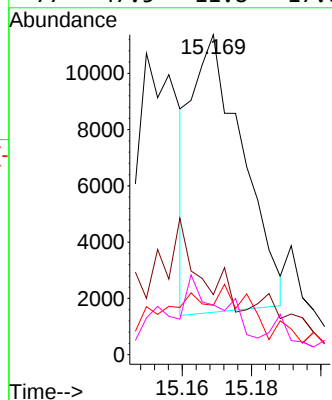


#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 15.169 min Scan# 3907
Delta R.T. 0.003 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:105 Resp: 10117
Ion Ratio Lower Upper
105 100
120 91.7 24.5 36.7#
91 52.9 10.6 16.0#
77 47.5 11.8 17.6#



#74
1,2,4-Trimethylbenzene
Concen: 0.117 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. 0.003 min
Lab File: VL040859.D
Acq: 14 Nov 2023 20:31

Tgt Ion:105 Resp: 29838
Ion Ratio Lower Upper
105 100
120 37.7 40.2 60.2#
91 7.4 45.7 68.5#
77 8.6 19.2 28.8#

