

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040622.D
 Acq On : 10 Aug 2023 2:02
 Operator : SY/MD
 Sample : 03950-03RE
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Aug 10 04:57:11 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	5.192	49	866503	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2126898	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	1824396	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1525986	10.569	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%

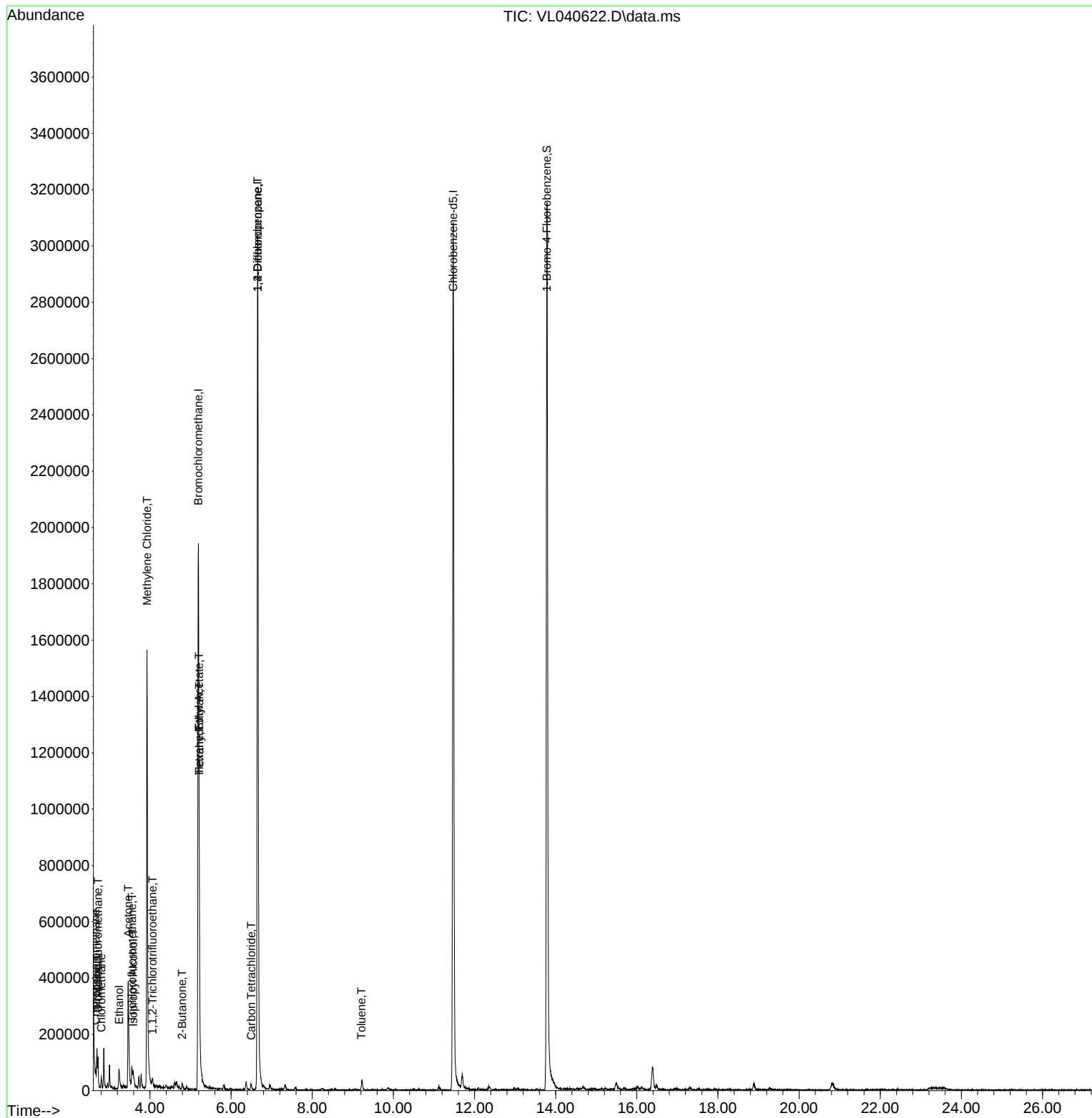
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	63389	0.366	ppbv	97
3) Chlorodifluoromethane	2.661	51	58206	0.424	ppbv	96
4) Chloromethane	2.803	50	31918	0.587	ppbv	98
9) Propene	2.690	41	29182	0.621	ppbv	90
11) Trichlorofluoromethane	3.555	101	41647	0.298	ppbv	90
12) 1,1,2-Trichlorotrifluo...	4.063	101	4831	0.049	ppbv #	13
13) Ethanol	3.240	45	72573	7.094	ppbv	91
15) Acetone	3.465	43	386633	3.876	ppbv	100
19) Isopropyl Alcohol	3.587	45	55274	0.965	ppbv #	64
20) Methylene Chloride	3.928	84	538622	12.695	ppbv	97
25) Ethyl Acetate	5.211	43	138166	0.728	ppbv #	78
26) Hexane	5.214	57	189686	2.150	ppbv #	40
34) 2-Butanone	4.793	43	9551	0.091	ppbv #	49
35) Carbon Tetrachloride	6.494	117	7012	0.055	ppbv	93
39) 1,2-Dichloropropane	6.655	63	556039	8.440	ppbv #	26
41) Tetrahydrofuran	5.214	42	83510	1.362	ppbv #	46
53) Toluene	9.214	91	5906	0.032	ppbv #	20

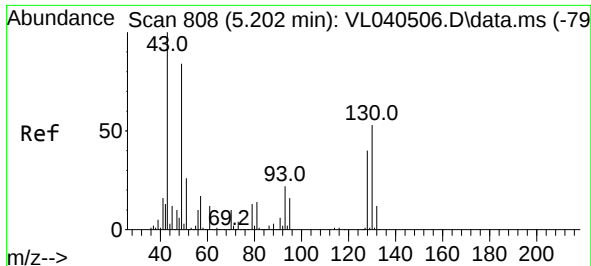
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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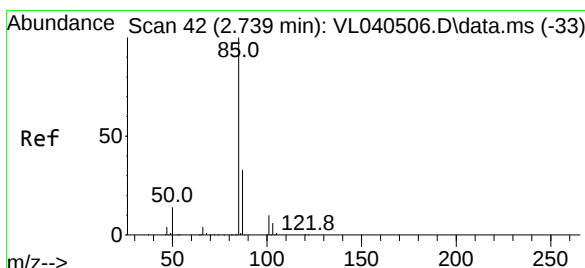
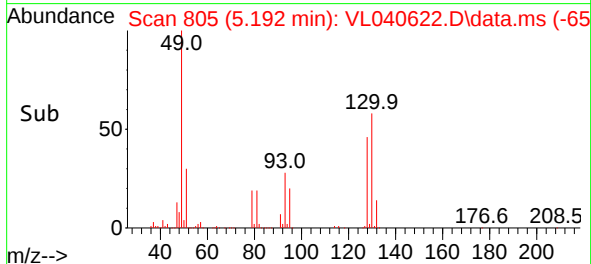
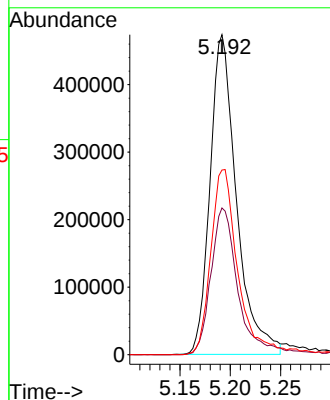
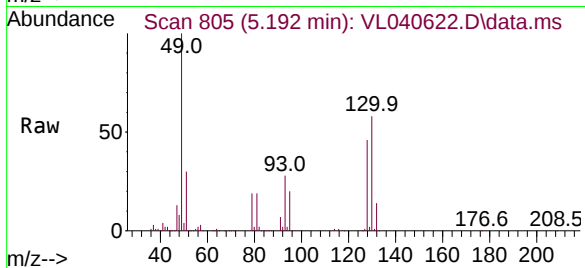




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. -0.010 min
 Lab File: VL040622.D
 Acq: 10 Aug 2023 2:02

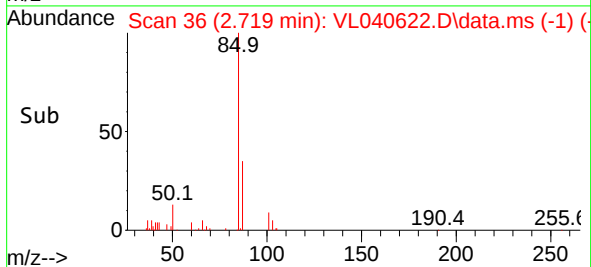
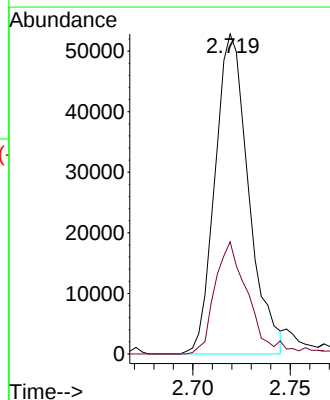
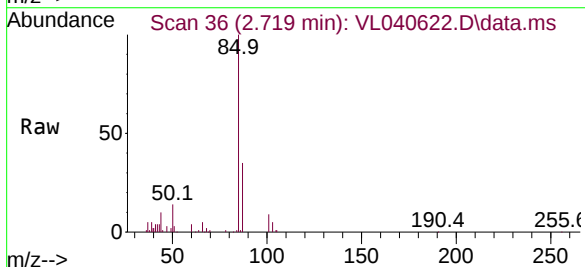
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

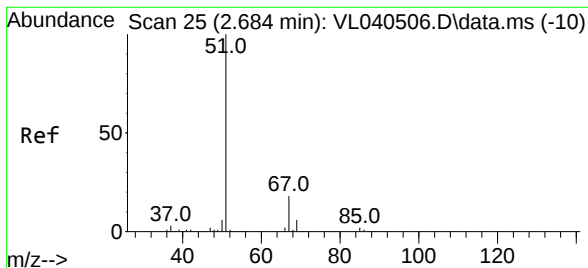
Tgt Ion: 49 Resp: 866503
 Ion Ratio Lower Upper
 49 100
 128 47.6 25.1 75.4
 130 61.3 31.6 94.7



#2
 Dichlorodifluoromethane
 Concen: 0.366 ppbv
 RT: 2.719 min Scan# 36
 Delta R.T. -0.019 min
 Lab File: VL040622.D
 Acq: 10 Aug 2023 2:02

Tgt Ion: 85 Resp: 63389
 Ion Ratio Lower Upper
 85 100
 87 35.0 26.8 40.2

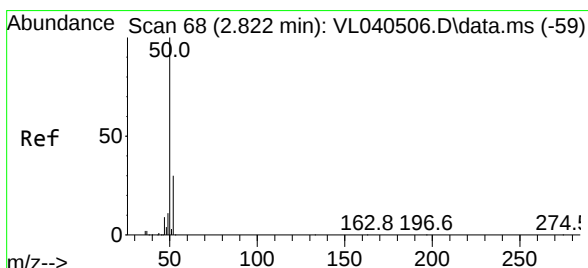
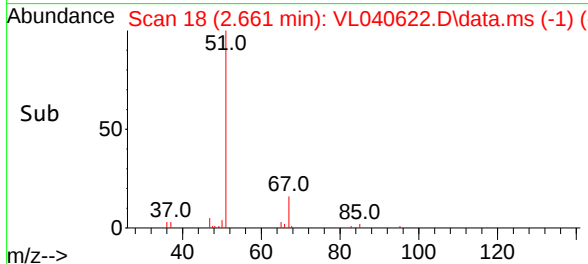
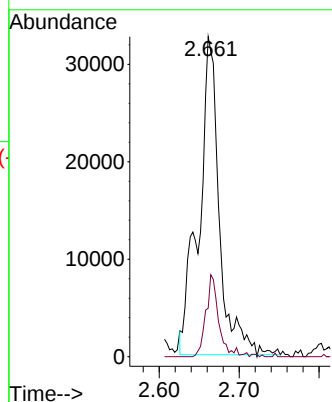
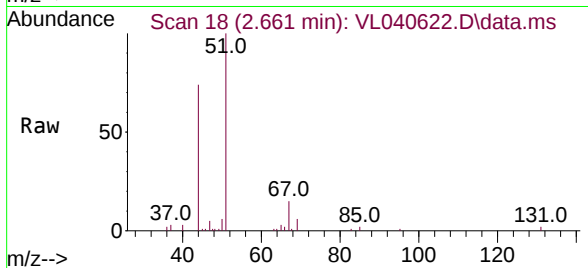




#3
Chlorodifluoromethane
Concen: 0.424 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.023 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

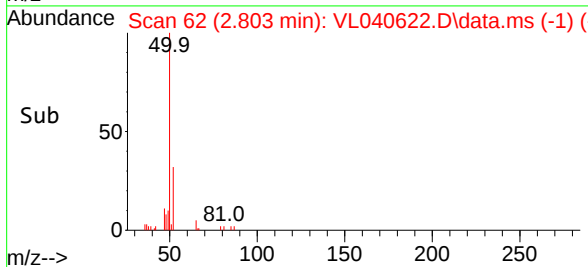
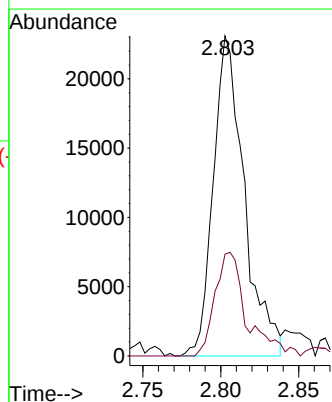
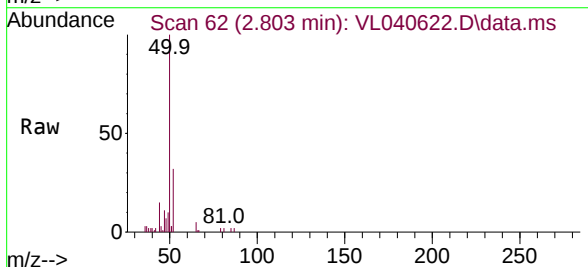
Instrument :
MSVOA_L
ClientSampleId :
IA1

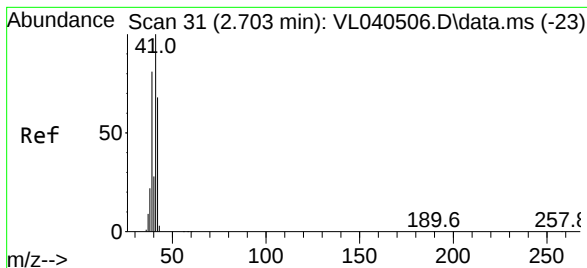
Tgt Ion: 51 Resp: 58206
Ion Ratio Lower Upper
51 100
67 16.5 14.6 21.8



#4
Chloromethane
Concen: 0.587 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.019 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 50 Resp: 31918
Ion Ratio Lower Upper
50 100
52 31.8 24.4 36.6





#9

Propene

Concen: 0.621 ppbv

RT: 2.690 min Scan# 21

Delta R.T. -0.013 min

Lab File: VL040622.D

Acq: 10 Aug 2023 2:02

Instrument :

MSVOA_L

ClientSampleId :

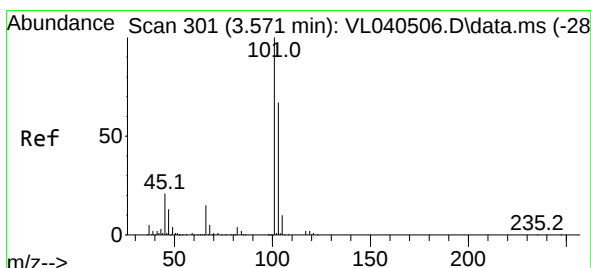
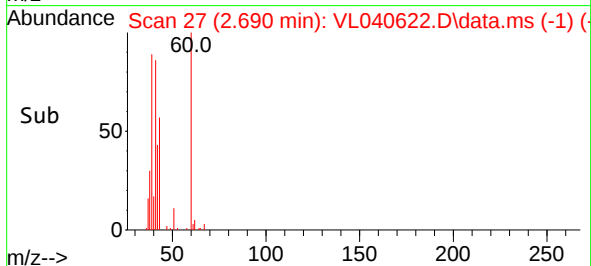
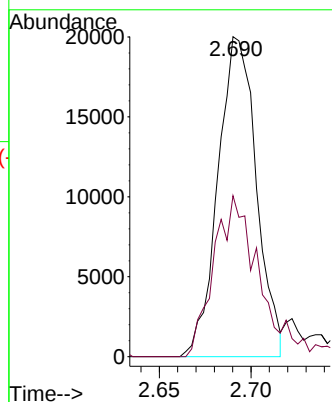
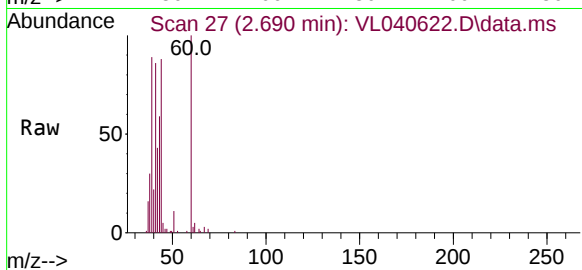
IA1

Tgt Ion: 41 Resp: 29182

Ion Ratio Lower Upper

41 100

42 60.7 55.0 82.6



#11

Trichlorofluoromethane

Concen: 0.298 ppbv

RT: 3.555 min Scan# 296

Delta R.T. -0.016 min

Lab File: VL040622.D

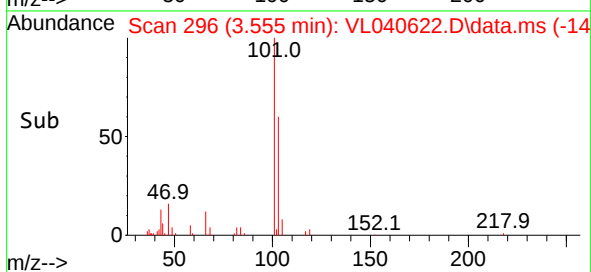
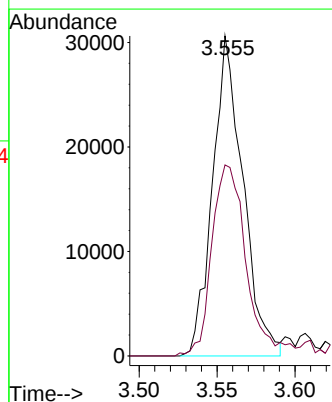
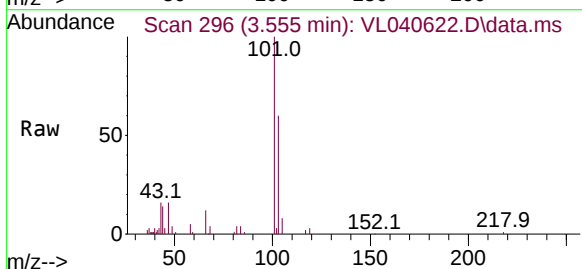
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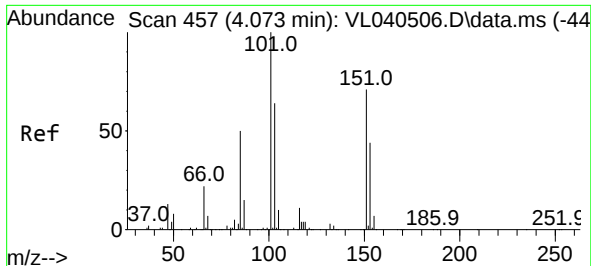
Tgt Ion: 101 Resp: 41647

Ion Ratio Lower Upper

101 100

103 58.8 53.4 80.0

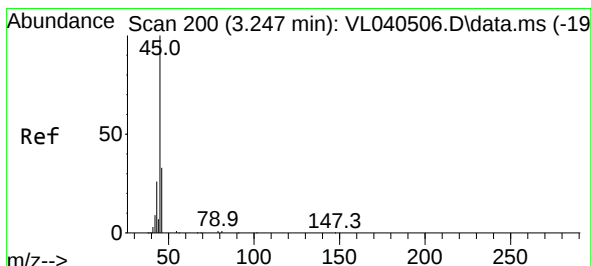
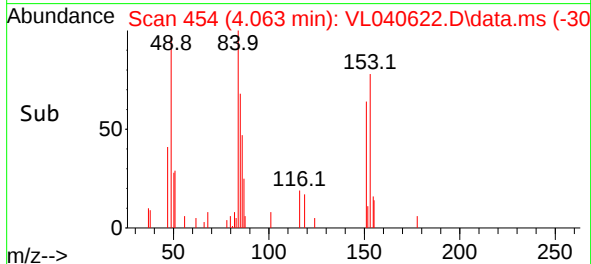
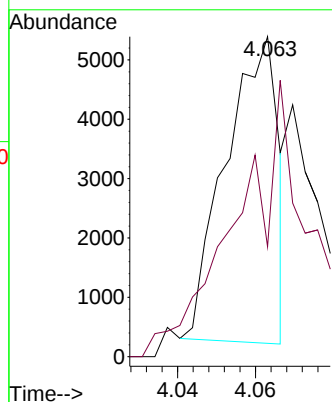
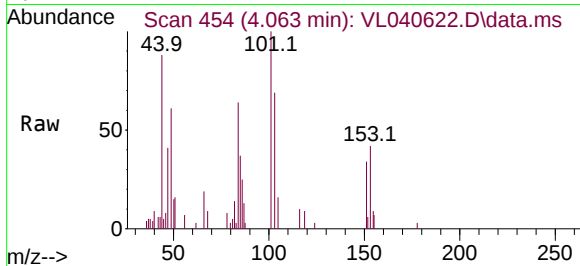




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 4.063 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

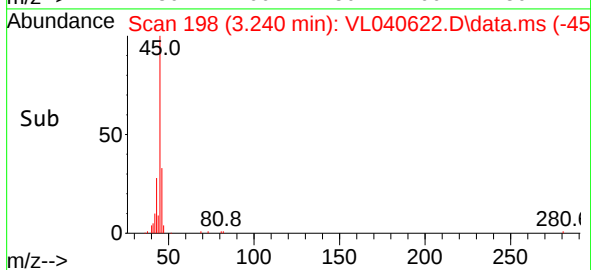
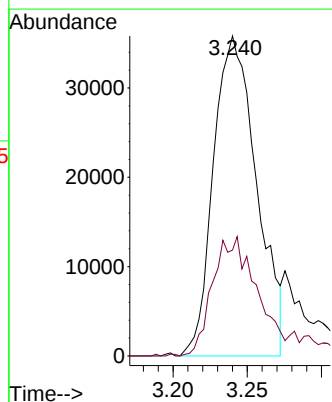
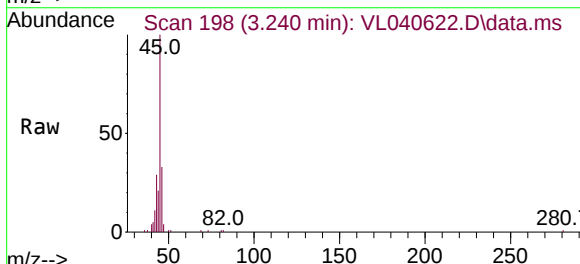
Instrument :
MSVOA_L
ClientSampleId :
IA1

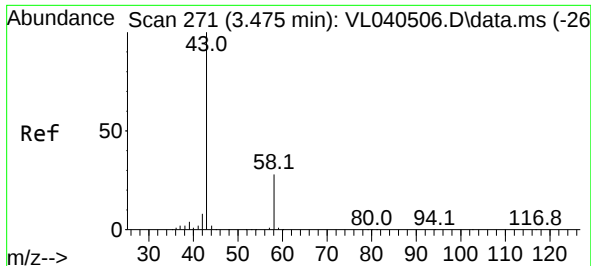
Tgt Ion:101 Resp: 4831
Ion Ratio Lower Upper
101 100
151 0.0 58.2 87.4#



#13
Ethanol
Concen: 7.094 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.007 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 45 Resp: 72573
Ion Ratio Lower Upper
45 100
46 43.9 15.3 61.1

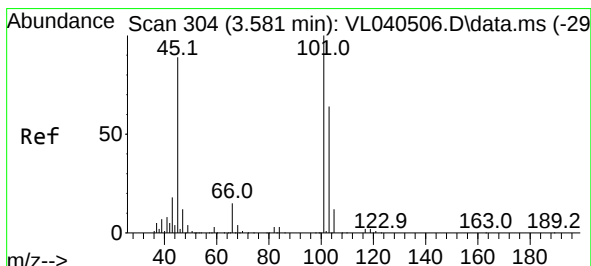
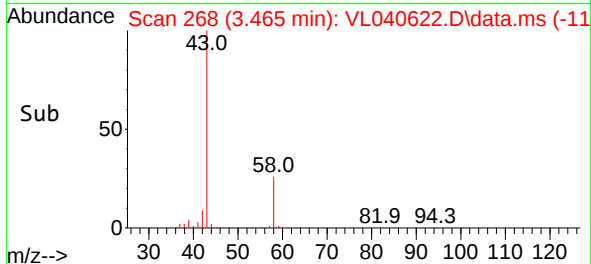
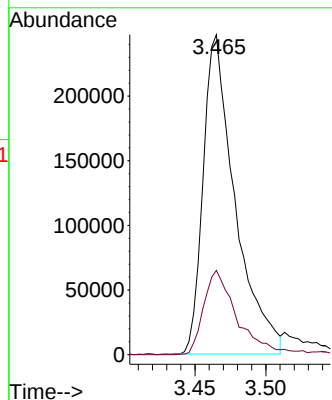
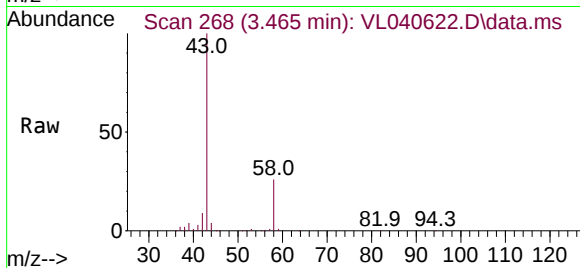




#15
Acetone
Concen: 3.876 ppbv
RT: 3.465 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

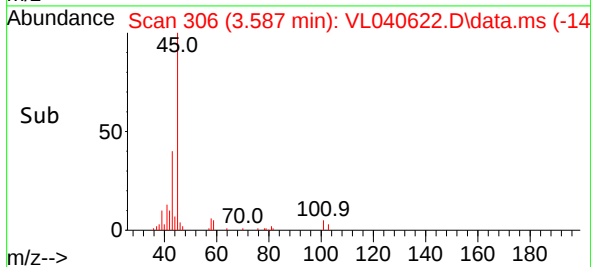
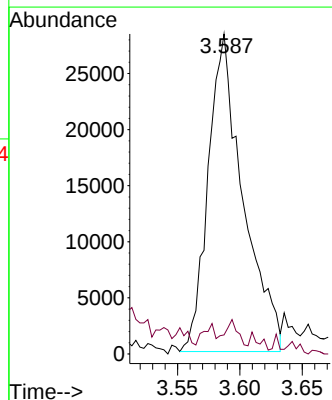
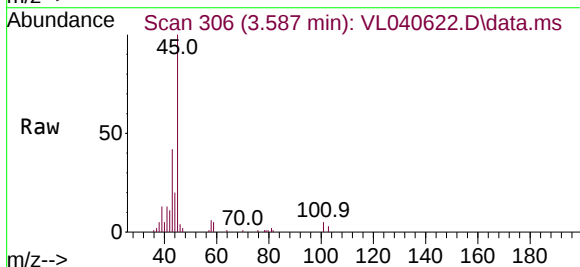
Instrument :
MSVOA_L
ClientSampleId :
IA1

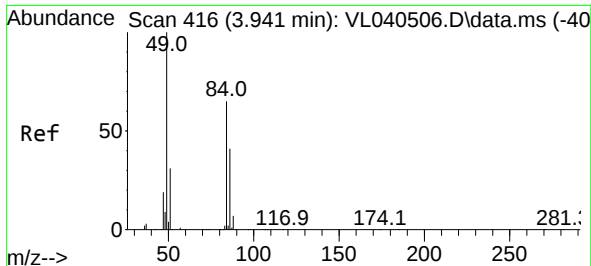
Tgt Ion: 43 Resp: 386633
Ion Ratio Lower Upper
43 100
58 28.5 22.9 34.3



#19
Isopropyl Alcohol
Concen: 0.965 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.006 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

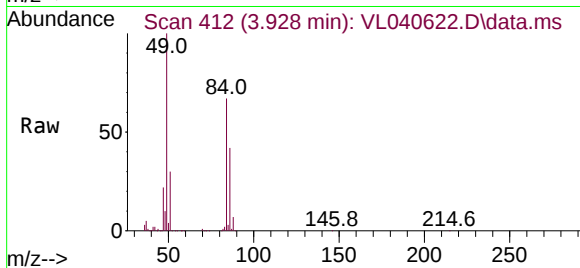
Tgt Ion: 45 Resp: 55274
Ion Ratio Lower Upper
45 100
58 15.3 1.1 1.7#





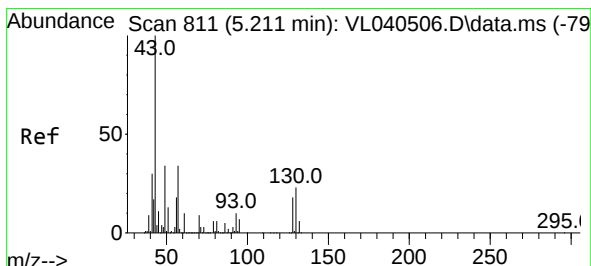
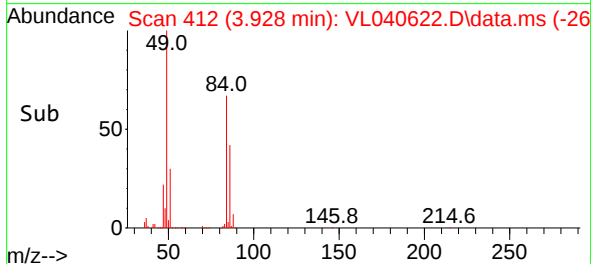
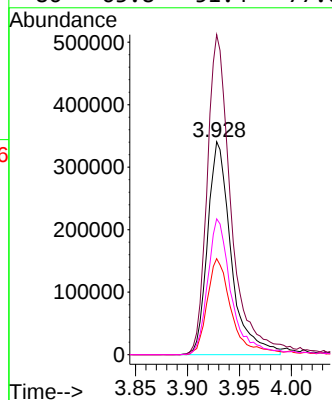
#20
Methylene Chloride
Concen: 12.695 ppbv
RT: 3.928 min Scan# 416
Delta R.T. -0.013 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 538622

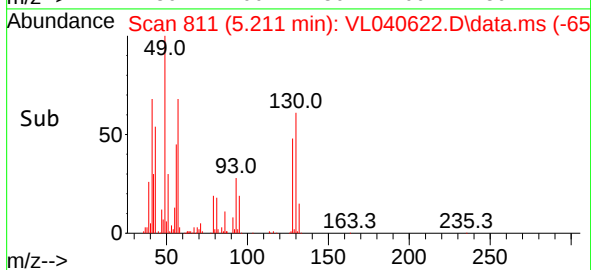
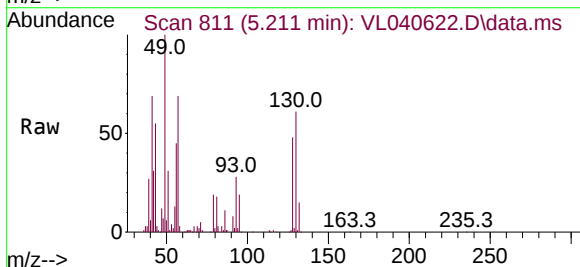
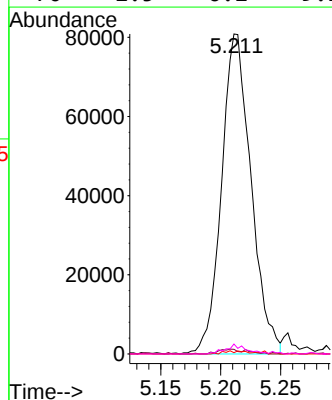
Ion	Ratio	Lower	Upper
84	100		
49	150.3	123.4	185.2
51	45.1	38.3	57.5
86	63.8	51.4	77.0

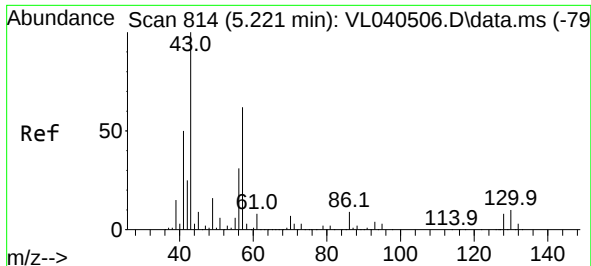


#25
Ethyl Acetate
Concen: 0.728 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 43 Resp: 138166

Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.2	12.4#
61	0.9	8.3	12.5#
70	2.5	6.2	9.2#



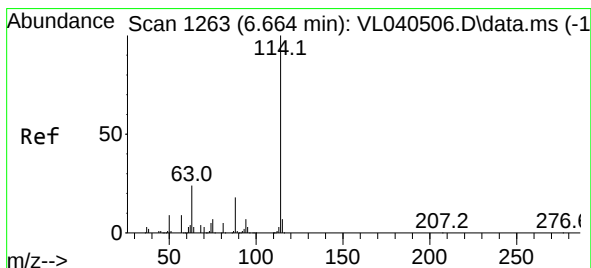
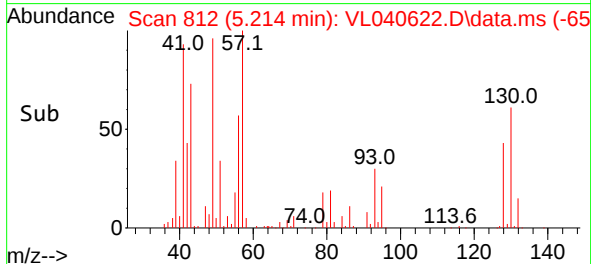
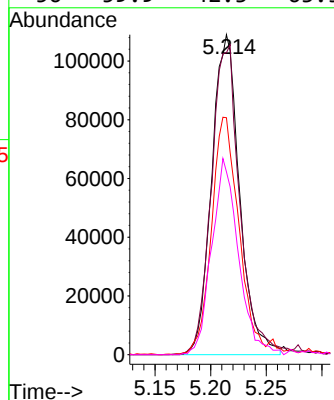
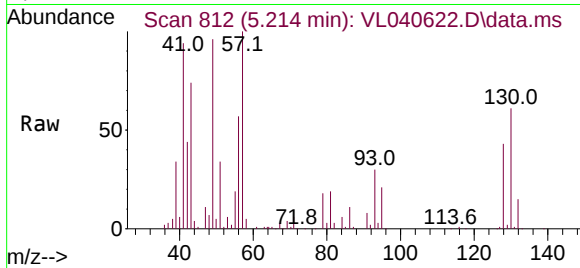


#26
Hexane
Concen: 2.150 ppbv
RT: 5.214 min Scan# 814
Delta R.T. -0.007 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 189686

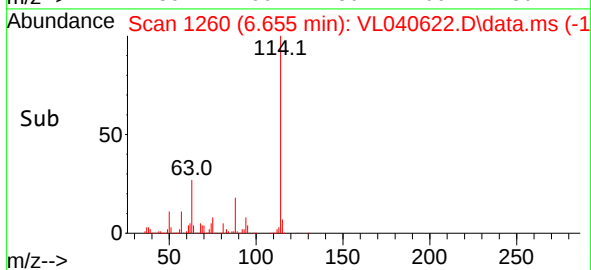
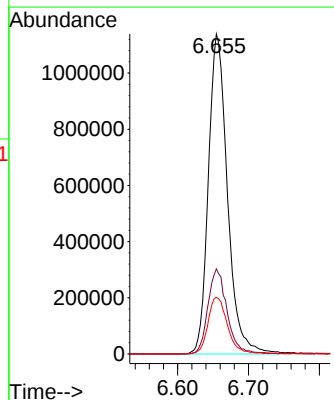
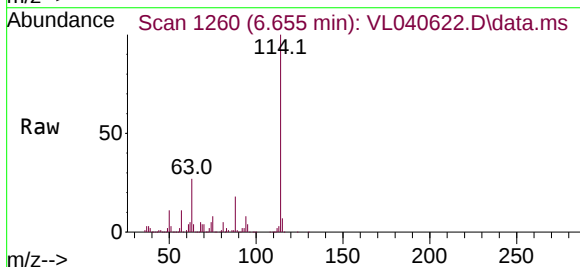
Ion	Ratio	Lower	Upper
57	100		
41	100.5	69.5	104.3
43	76.3	177.1	265.7#
56	59.9	42.3	63.5

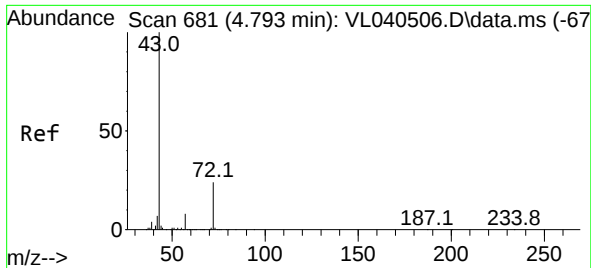


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.010 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 114 Resp: 2126898

Ion	Ratio	Lower	Upper
114	100		
63	26.7	19.6	29.4
88	18.2	14.2	21.2

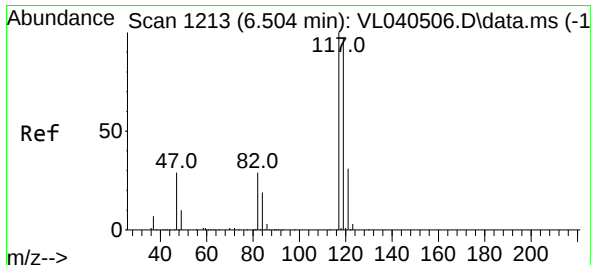
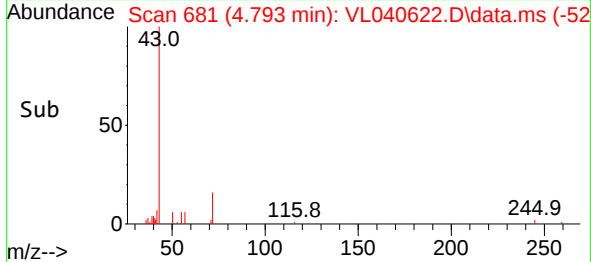
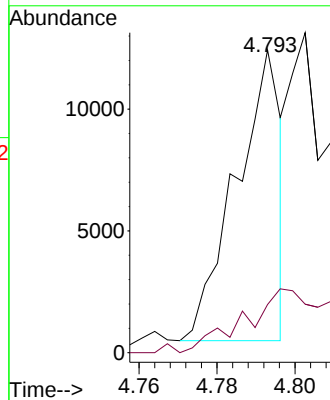
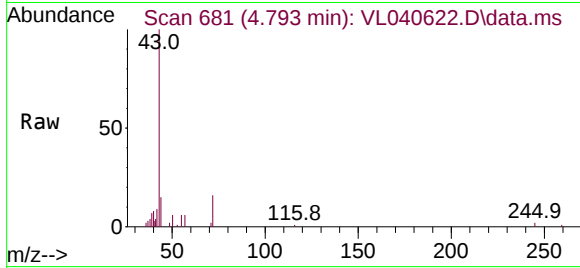




#34
2-Butanone
Concen: 0.091 ppbv
RT: 4.793 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

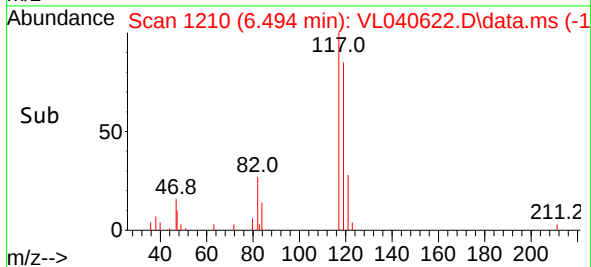
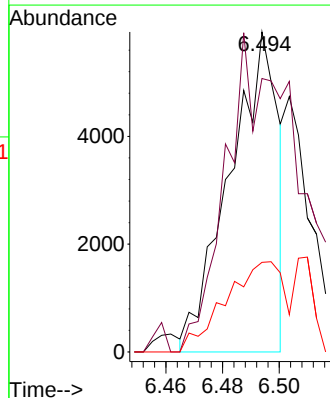
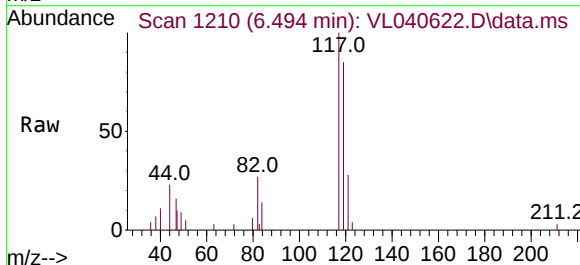
Instrument :
MSVOA_L
ClientSampleId :
IA1

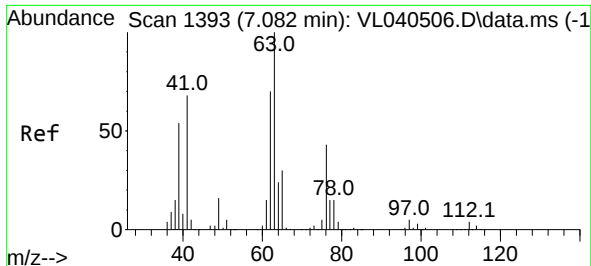
Tgt Ion: 43 Resp: 9551
Ion Ratio Lower Upper
43 100
72 48.8 19.1 28.7#



#35
Carbon Tetrachloride
Concen: 0.055 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. -0.010 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 117 Resp: 7012
Ion Ratio Lower Upper
117 100
119 89.0 77.8 116.6
121 29.2 24.8 37.2





#39

1,2-Dichloropropane

Concen: 8.440 ppbv

RT: 6.655 min Scan# 1

Delta R.T. -0.428 min

Lab File: VL040622.D

Acq: 10 Aug 2023 2:02

Instrument :

MSVOA_L

ClientSampleId :

IA1

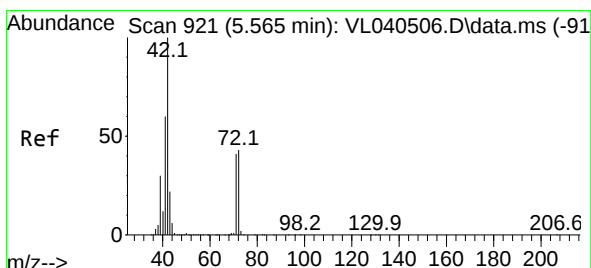
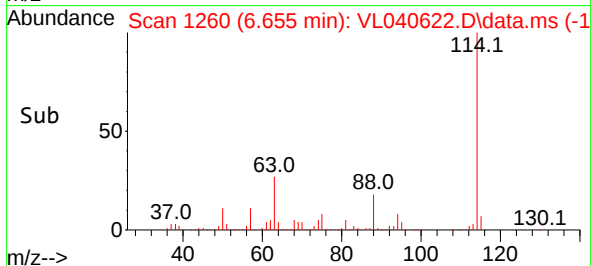
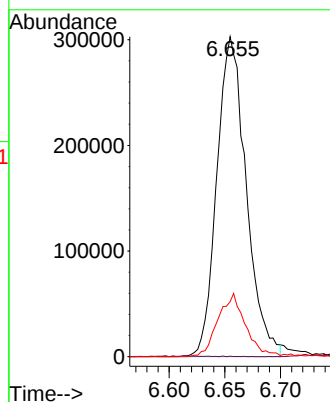
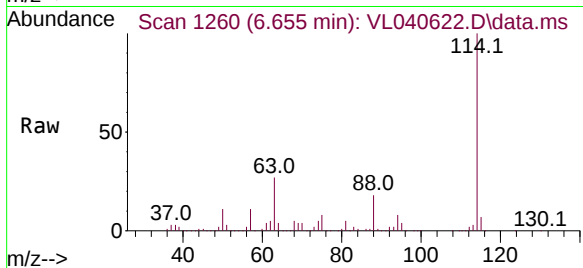
Tgt Ion: 63 Resp: 556039

Ion Ratio Lower Upper

63 100

41 0.2 54.3 81.5#

62 17.1 55.6 83.4#



#41

Tetrahydrofuran

Concen: 1.362 ppbv

RT: 5.214 min Scan# 812

Delta R.T. -0.351 min

Lab File: VL040622.D

Acq: 10 Aug 2023 2:02

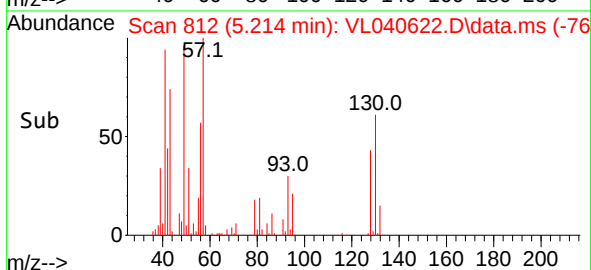
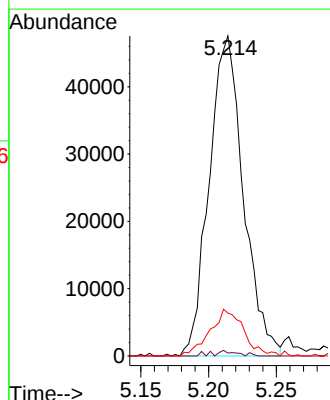
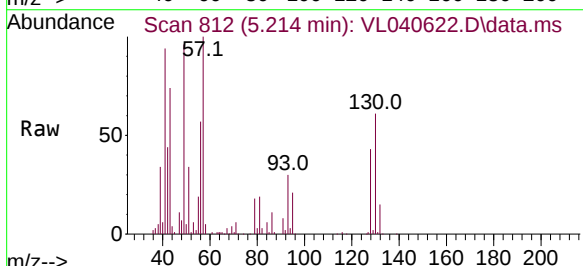
Tgt Ion: 42 Resp: 83510

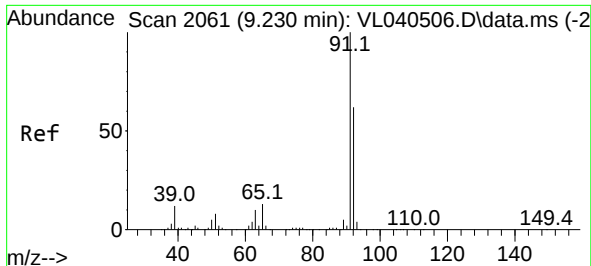
Ion Ratio Lower Upper

42 100

72 1.2 33.8 50.8#

71 14.6 33.0 49.6#

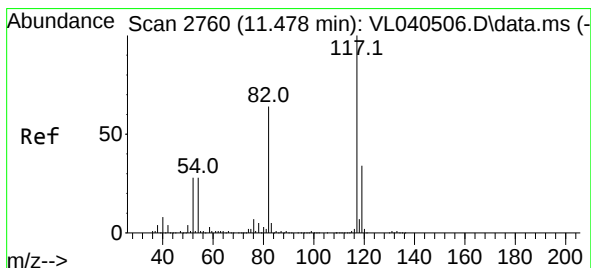
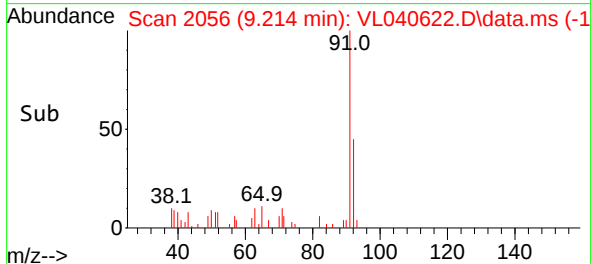
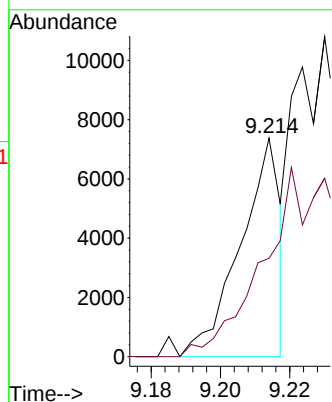
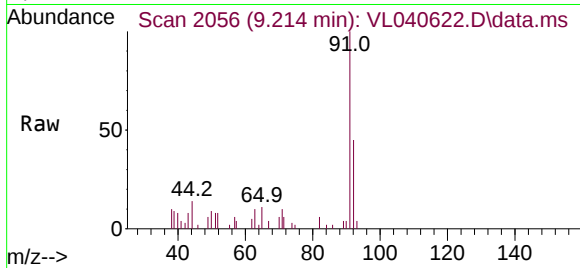




#53
Toluene
Concen: 0.032 ppbv
RT: 9.214 min Scan# 2061
Delta R.T. -0.016 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

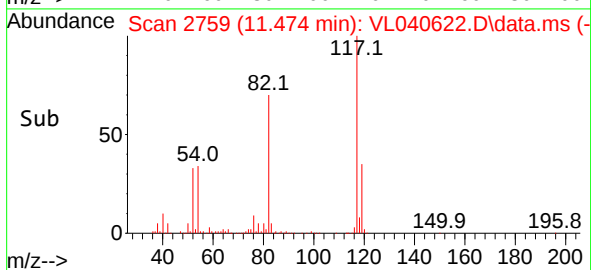
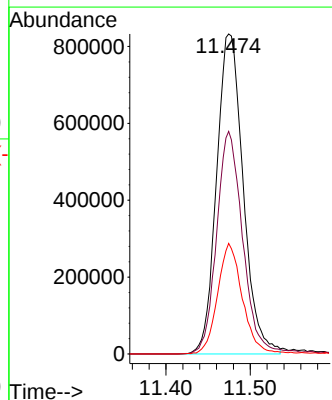
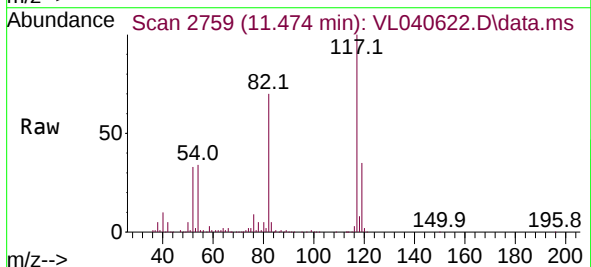
Instrument :
MSVOA_L
ClientSampleId :
IA1

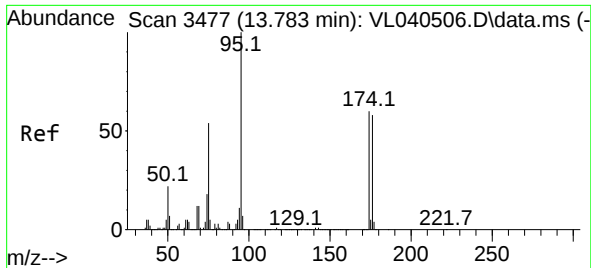
Tgt Ion: 91 Resp: 5906
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. -0.003 min
Lab File: VL040622.D
Acq: 10 Aug 2023 2:02

Tgt Ion: 117 Resp: 1824396
Ion Ratio Lower Upper
117 100
82 69.2 50.2 75.4
119 32.6 26.9 40.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.569 ppbv
 RT: 13.783 min Scan# 3477
 Delta R.T. -0.000 min
 Lab File: VL040622.D
 Acq: 10 Aug 2023 2:02

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 1525986

Ion	Ratio	Lower	Upper
95	100		
174	59.6	50.6	75.8
175	4.1	3.7	5.5

