

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040549.D
 Acq On : 26 Jul 2023 20:33
 Operator : SY/MD
 Sample : 03696-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 01:52:18 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)

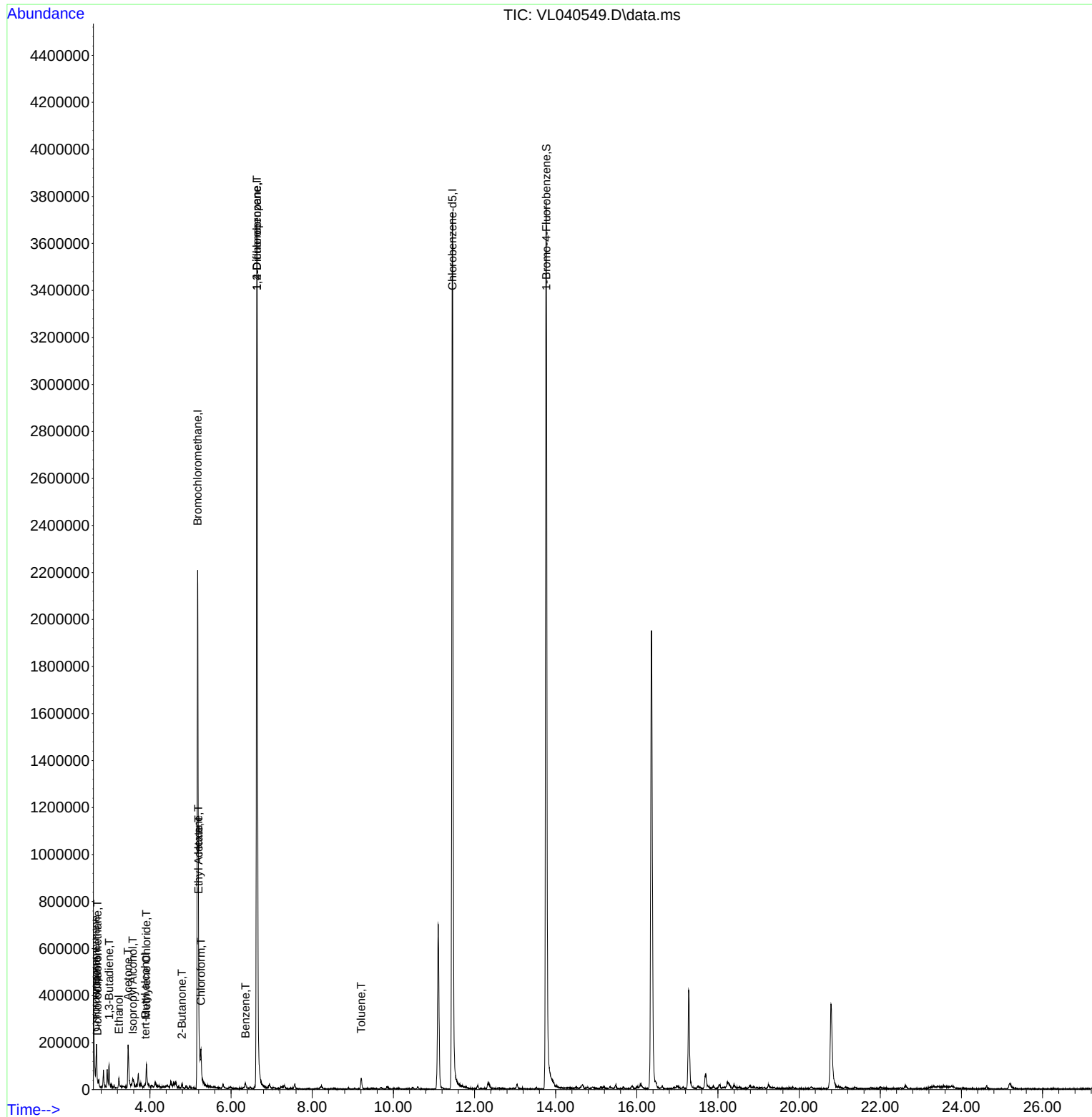
Internal Standards						
1) Bromochloromethane	5.176	49	1085014	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2742004	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.458	117	2426804	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1895106	9.867	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	9211	0.042	ppbv	92
3) Chlorodifluoromethane	2.658	51	8329	0.048	ppbv #	92
9) Propene	2.680	41	59781	1.015	ppbv	90
13) Ethanol	3.234	45	18716	1.461	ppbv #	13
15) Acetone	3.462	43	178743	1.431	ppbv	100
16) 1,3-Butadiene	2.992	39	13901	0.221	ppbv #	8
17) tert-Butyl alcohol	3.886	59	6263	0.048	ppbv #	85
19) Isopropyl Alcohol	3.574	45	33280	0.464	ppbv #	78
20) Methylene Chloride	3.912	84	30856	0.581	ppbv #	84
25) Ethyl Acetate	5.198	43	26672	0.112	ppbv #	93
26) Hexane	5.195	57	23474	0.213	ppbv #	59
29) Chloroform	5.256	83	74403	0.406	ppbv	91
34) 2-Butanone	4.787	43	24042	0.177	ppbv	100
36) Benzene	6.352	78	14182	0.064	ppbv #	92
39) 1,2-Dichloropropane	6.639	63	688834	8.110	ppbv #	26
53) Toluene	9.208	91	21405	0.089	ppbv #	56

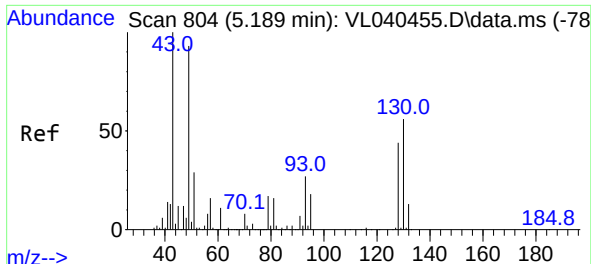
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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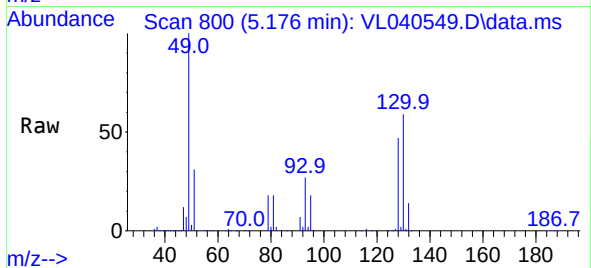
Quant Time: Jul 27 01:52:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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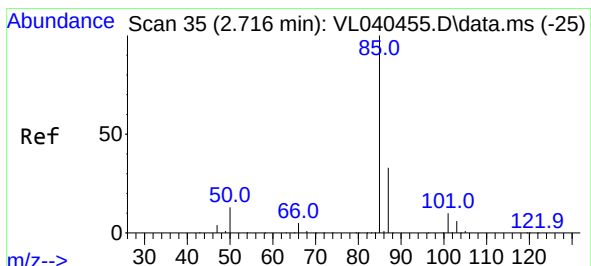
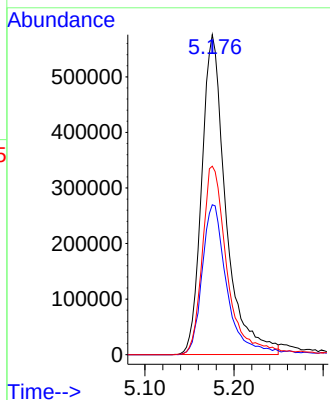
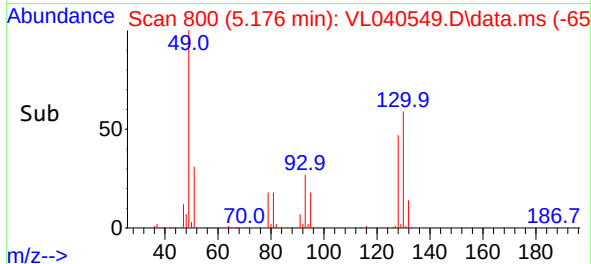


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Instrument :
MSVOA_L
ClientSampleId :

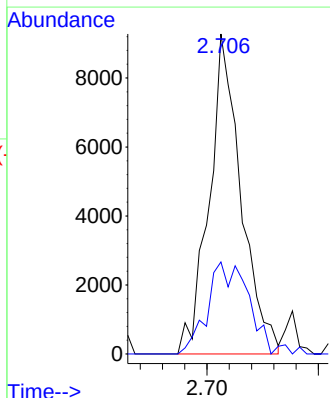
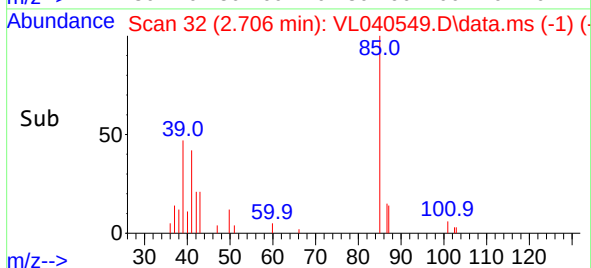
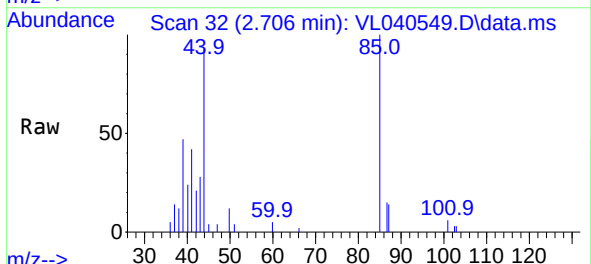


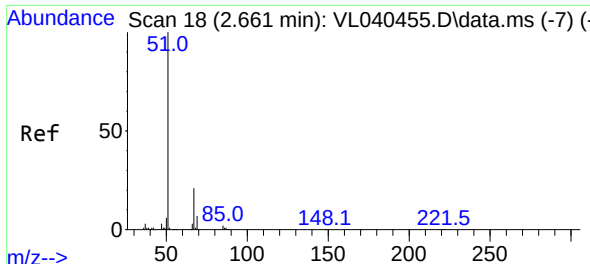
Tgt Ion: 49 Resp: 1085014
Ion Ratio Lower Upper
49 100
128 49.6 25.1 75.4
130 62.1 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.042 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.032 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Tgt Ion: 85 Resp: 9211
Ion Ratio Lower Upper
85 100
87 28.8 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.048 ppbv

RT: 2.658 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Instrument :

MSVOA_L

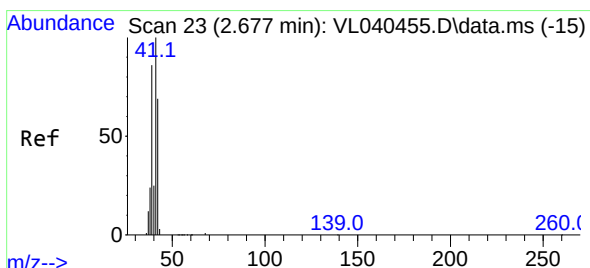
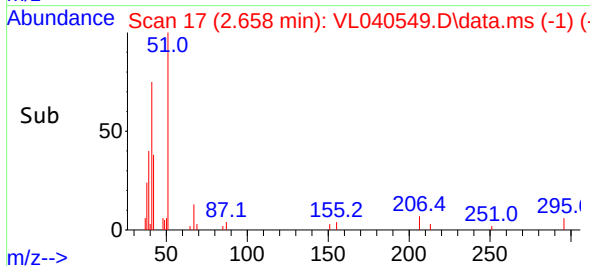
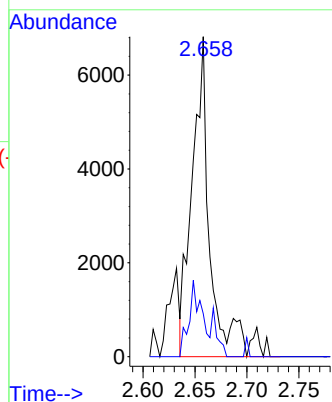
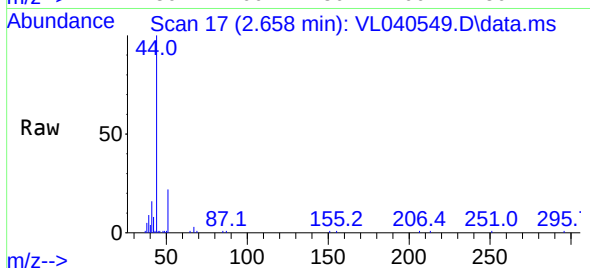
ClientSampleId :

Tgt Ion: 51 Resp: 8329

Ion Ratio Lower Upper

51 100

67 21.9 14.6 21.8#



#9

Propene

Concen: 1.015 ppbv

RT: 2.680 min Scan# 24

Delta R.T. -0.023 min

Lab File: VL040549.D

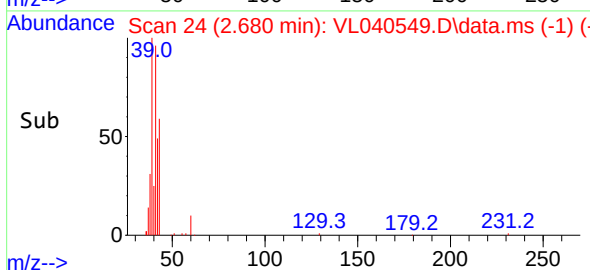
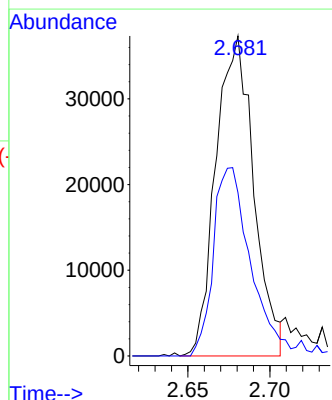
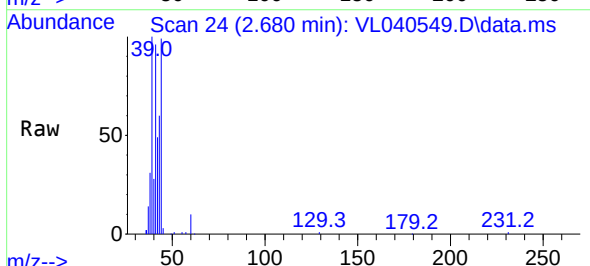
Acq: 26 Jul 2023 20:33

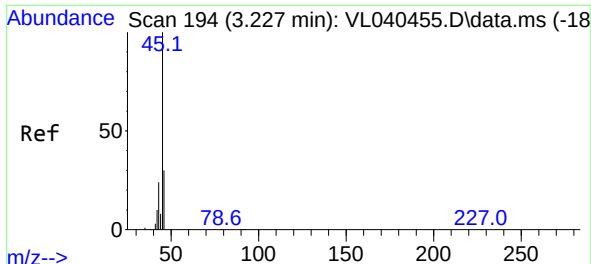
Tgt Ion: 41 Resp: 59781

Ion Ratio Lower Upper

41 100

42 60.7 55.0 82.6





#13

Ethanol

Concen: 1.461 ppbv

RT: 3.234 min Scan# 196

Delta R.T. -0.013 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Instrument :

MSVOA_L

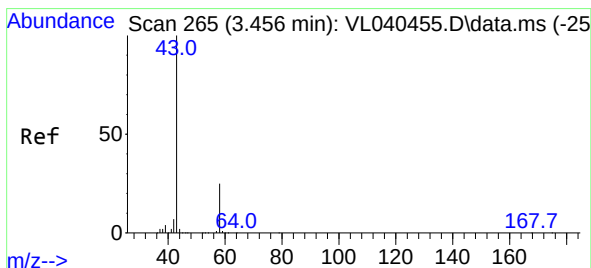
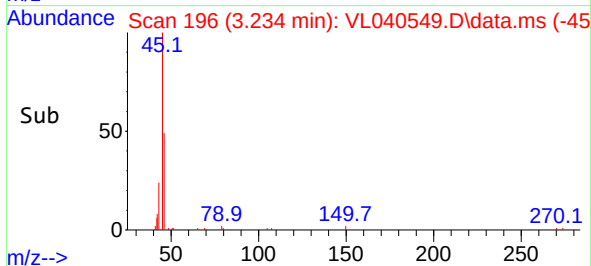
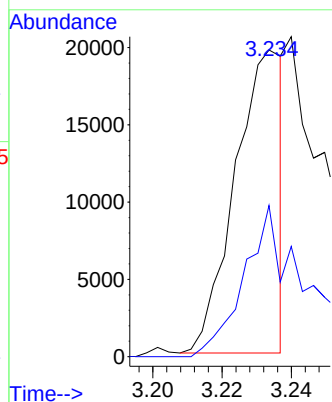
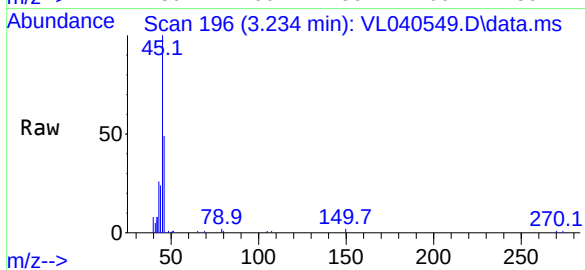
ClientSampleId :

Tgt Ion: 45 Resp: 18716

Ion Ratio Lower Upper

45 100

46 90.8 15.3 61.1#



#15

Acetone

Concen: 1.431 ppbv

RT: 3.462 min Scan# 267

Delta R.T. -0.013 min

Lab File: VL040549.D

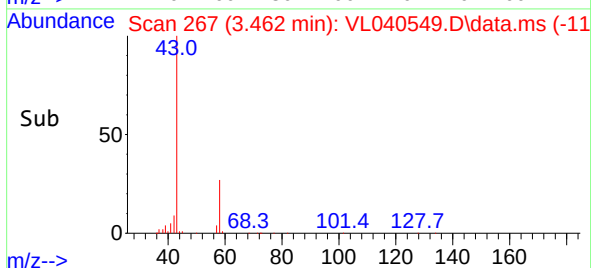
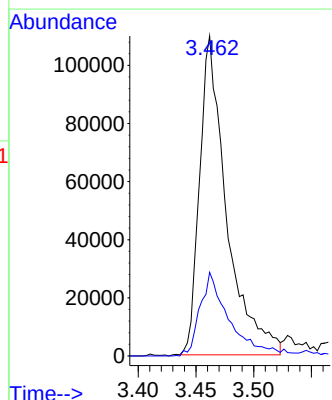
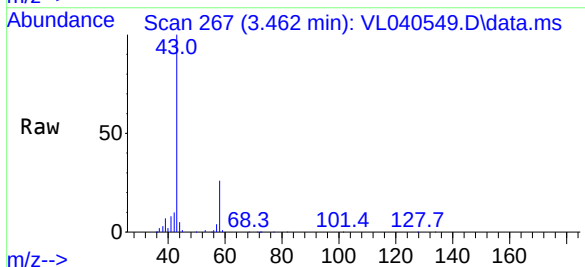
Acq: 26 Jul 2023 20:33

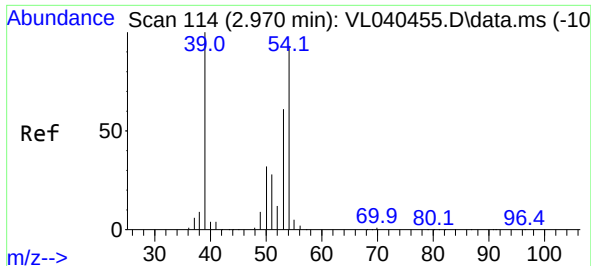
Tgt Ion: 43 Resp: 178743

Ion Ratio Lower Upper

43 100

58 28.7 22.9 34.3





#16

1,3-Butadiene

Concen: 0.221 ppbv

RT: 2.992 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Instrument :

MSVOA_L

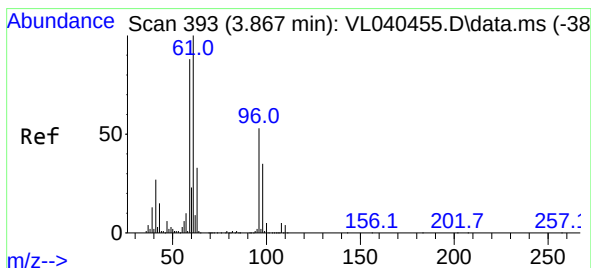
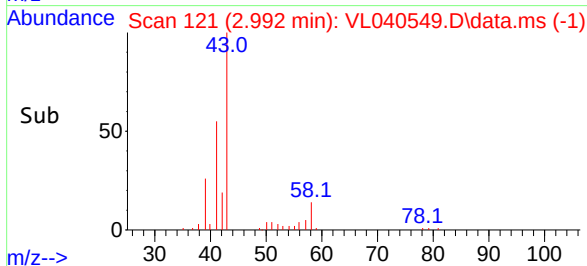
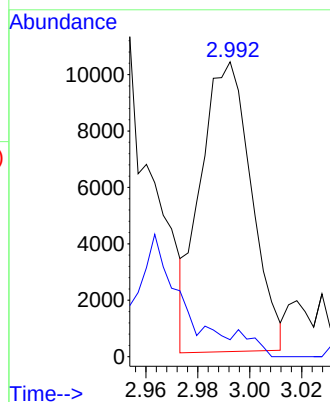
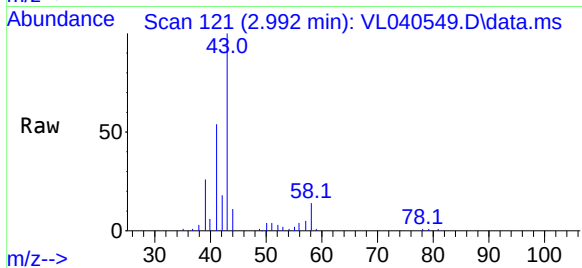
ClientSampleId :

Tgt Ion: 39 Resp: 13901

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 3.886 min Scan# 399

Delta R.T. 0.003 min

Lab File: VL040549.D

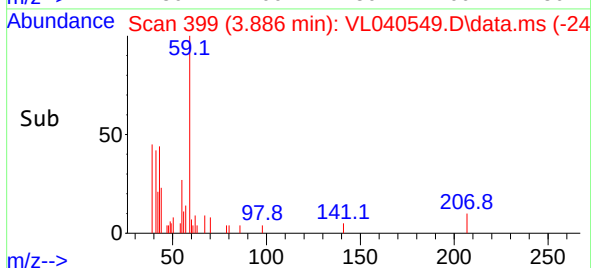
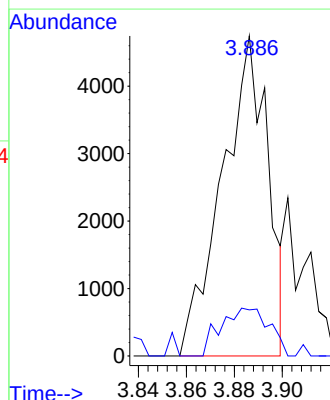
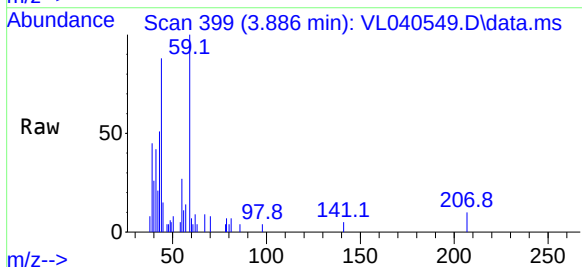
Acq: 26 Jul 2023 20:33

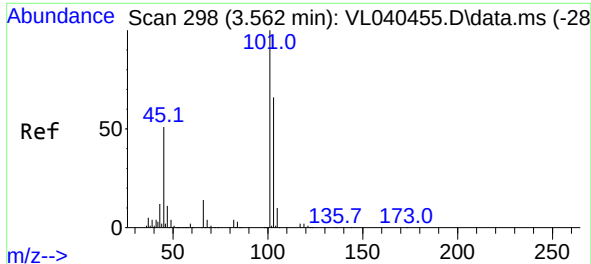
Tgt Ion: 59 Resp: 6263

Ion Ratio Lower Upper

59 100

57 16.4 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.464 ppbv

RT: 3.574 min Scan# 302

Delta R.T. -0.007 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Instrument :

MSVOA_L

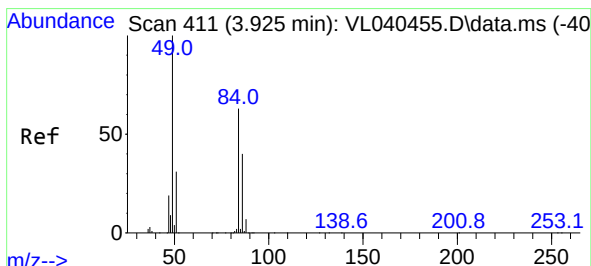
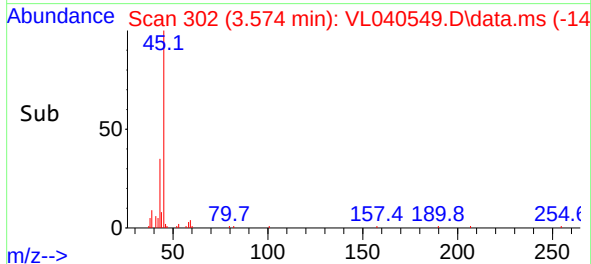
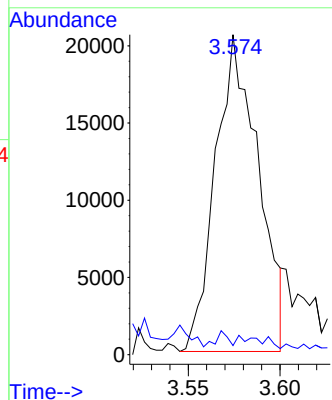
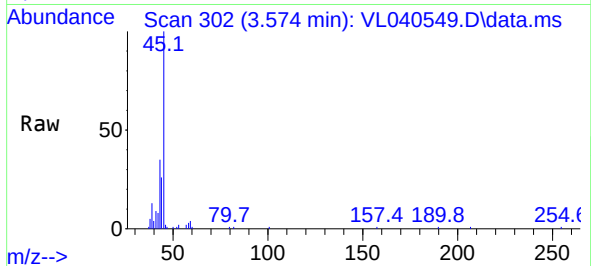
ClientSampleId :

Tgt Ion: 45 Resp: 33280

Ion Ratio Lower Upper

45 100

58 10.1 1.1 1.7#



#20

Methylene Chloride

Concen: 0.581 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.029 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Tgt Ion: 84 Resp: 30856

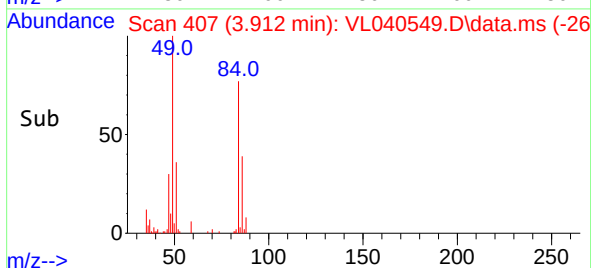
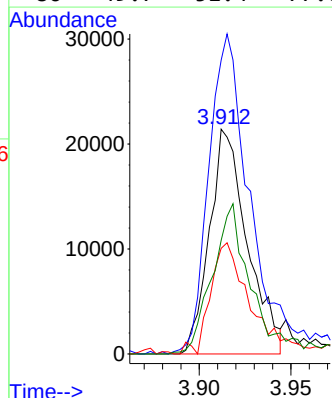
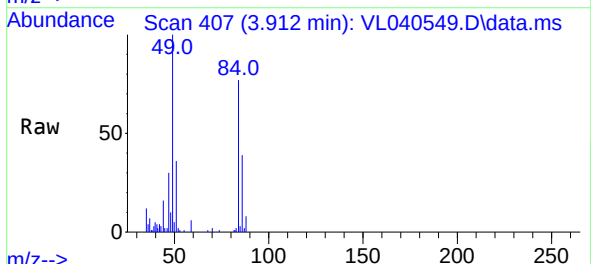
Ion Ratio Lower Upper

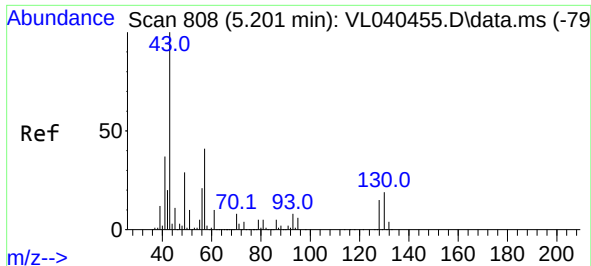
84 100

49 128.8 123.4 185.2

51 47.0 38.3 57.5

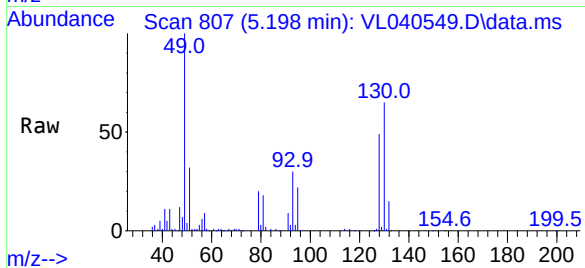
86 49.7 51.4 77.0#





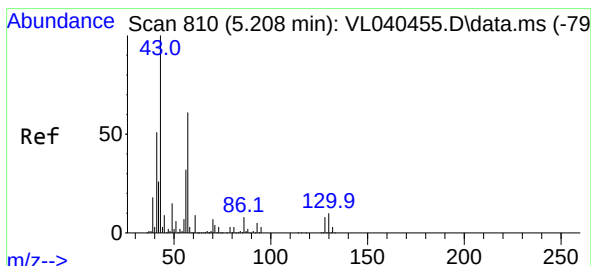
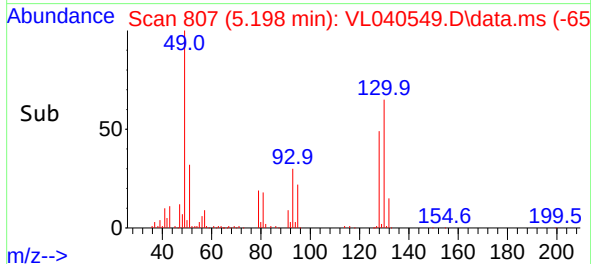
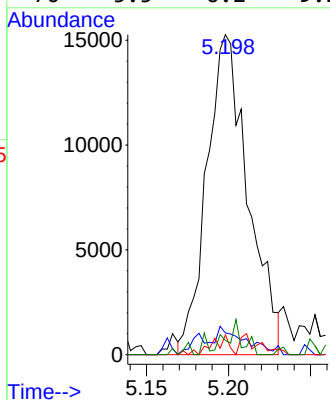
#25
Ethyl Acetate
Concen: 0.112 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.013 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 26672

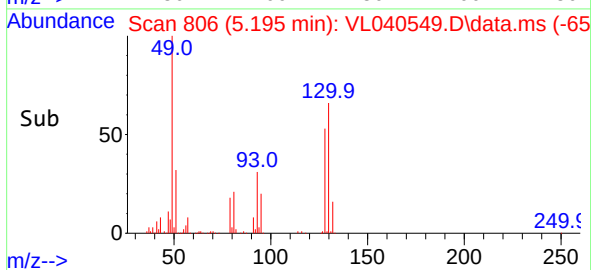
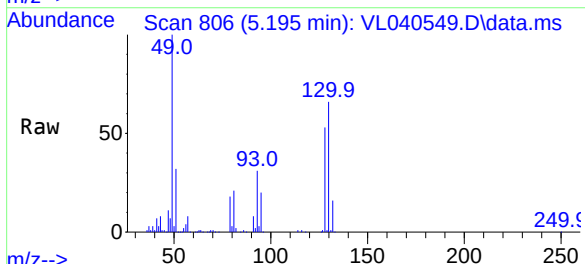
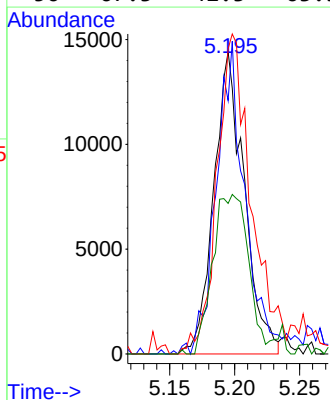
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.2	12.4
61	5.4	8.3	12.5#
70	5.5	6.2	9.2#

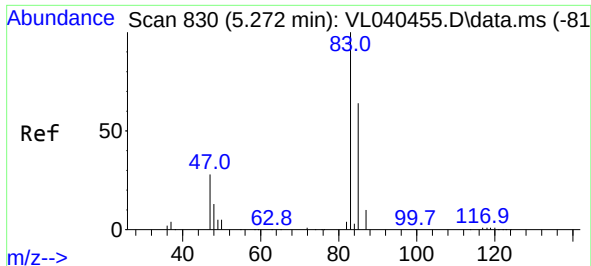


#26
Hexane
Concen: 0.213 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.026 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Tgt Ion: 57 Resp: 23474

Ion	Ratio	Lower	Upper
57	100		
41	97.4	69.5	104.3
43	129.2	177.1	265.7#
56	67.3	42.3	63.5#

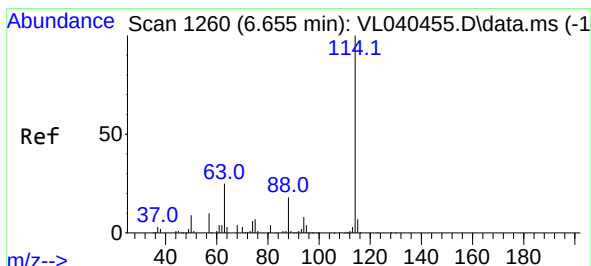
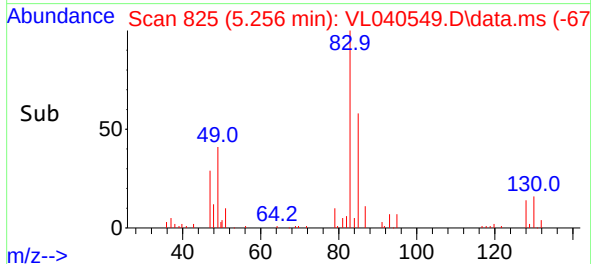
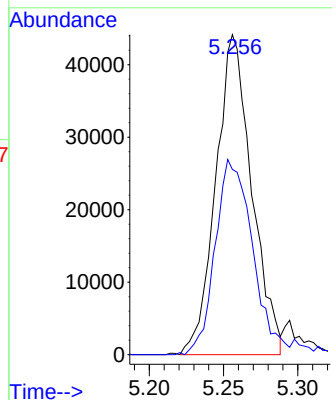
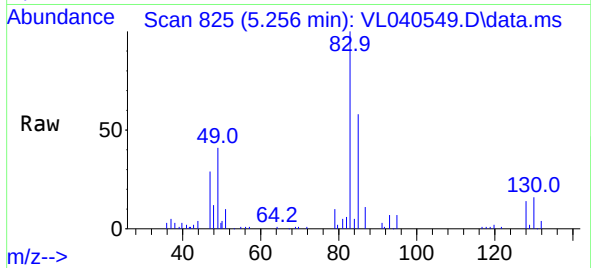




#29
Chloroform
Concen: 0.406 ppbv
RT: 5.256 min Scan# 81
Delta R.T. -0.029 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

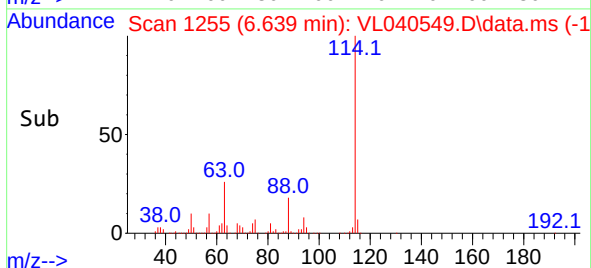
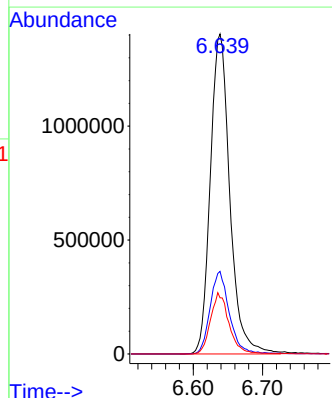
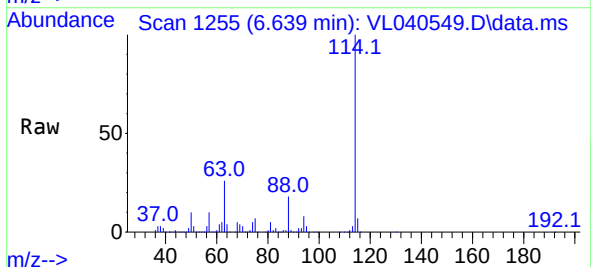
Instrument :
MSVOA_L
ClientSampleId :

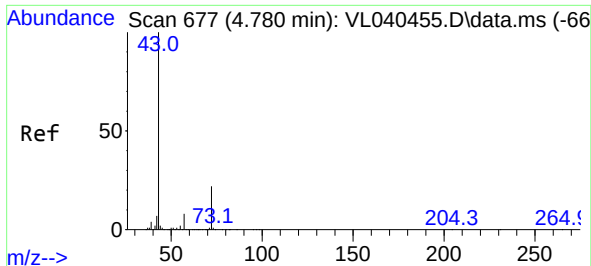
Tgt Ion: 83 Resp: 74403
Ion Ratio Lower Upper
83 100
85 57.2 51.1 76.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Tgt Ion: 114 Resp: 2742004
Ion Ratio Lower Upper
114 100
63 25.7 19.6 29.4
88 18.2 14.2 21.2

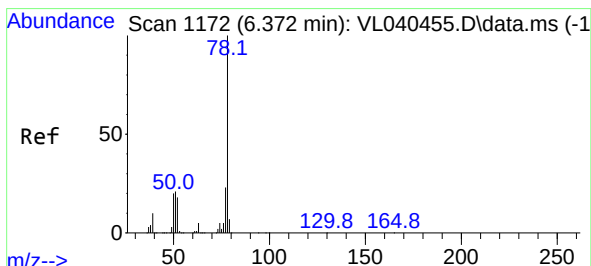
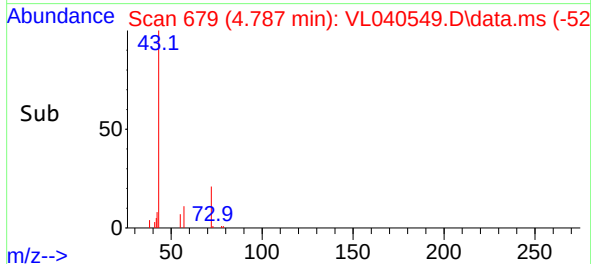
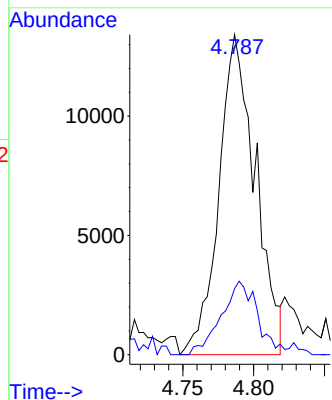
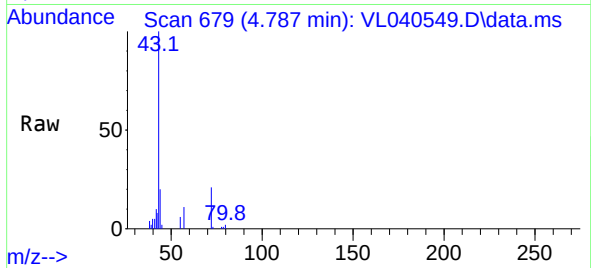




#34
2-Butanone
Concen: 0.177 ppbv
RT: 4.787 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

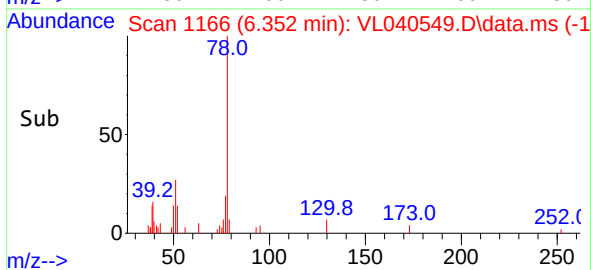
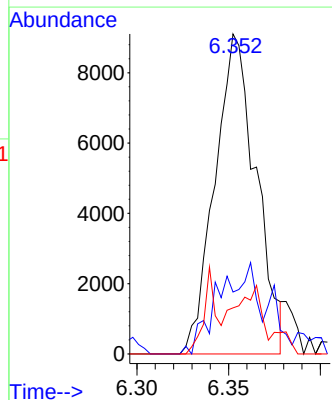
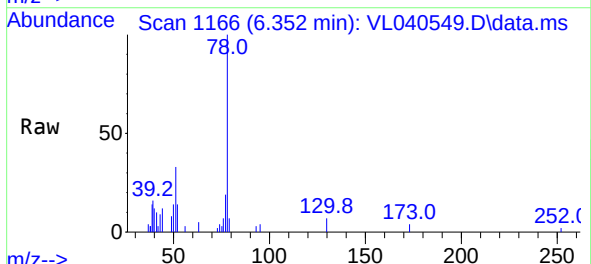
Instrument :
MSVOA_L
ClientSampleId :

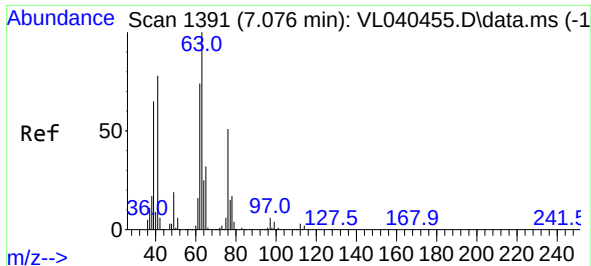
Tgt Ion: 43 Resp: 24042
Ion Ratio Lower Upper
43 100
72 23.9 19.1 28.7



#36
Benzene
Concen: 0.064 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.029 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

Tgt Ion: 78 Resp: 14182
Ion Ratio Lower Upper
78 100
77 19.4 17.4 26.0
50 12.7 14.4 21.6#





#39

1,2-Dichloropropane

Concen: 8.110 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.444 min

Lab File: VL040549.D

Acq: 26 Jul 2023 20:33

Instrument :

MSVOA_L

ClientSampleId :

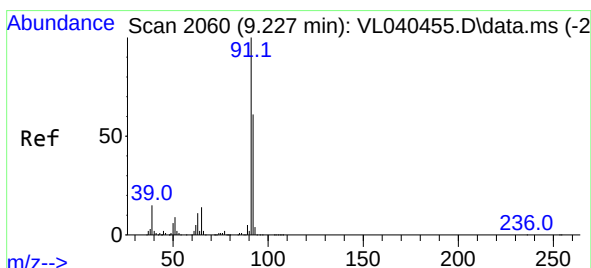
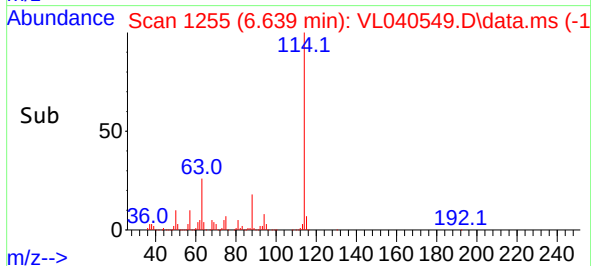
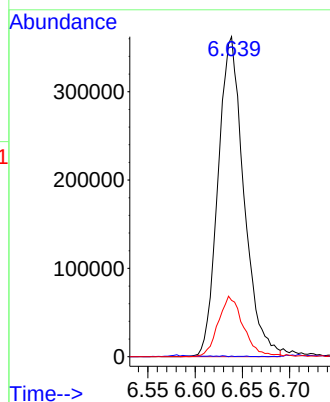
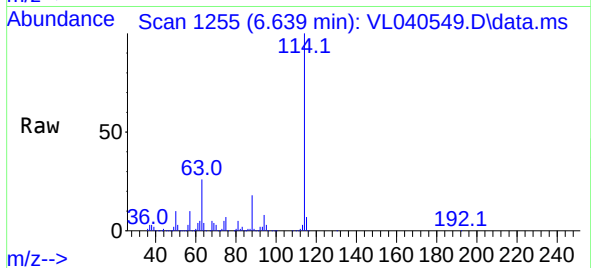
Tgt Ion: 63 Resp: 688834

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 17.6 55.6 83.4#



#53

Toluene

Concen: 0.089 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. -0.023 min

Lab File: VL040549.D

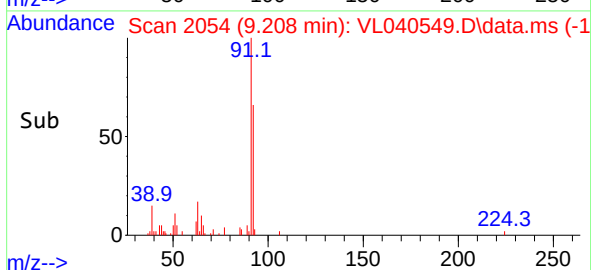
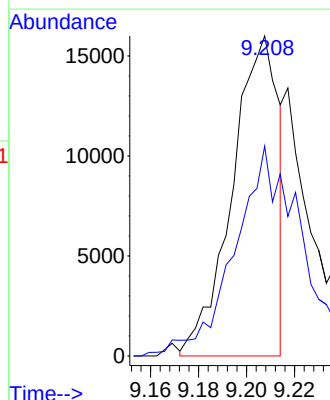
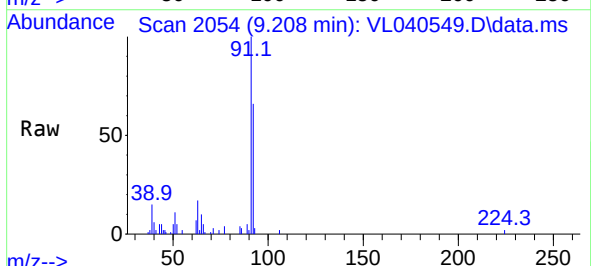
Acq: 26 Jul 2023 20:33

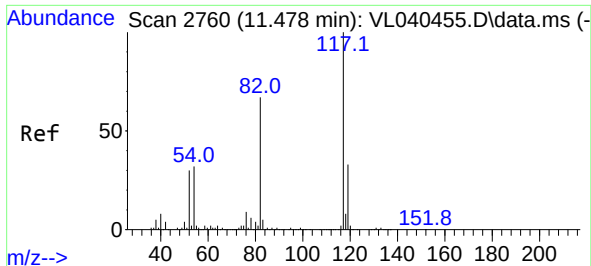
Tgt Ion: 91 Resp: 21405

Ion Ratio Lower Upper

91 100

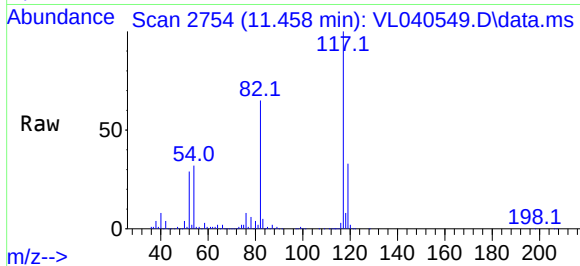
92 95.4 49.1 73.7#



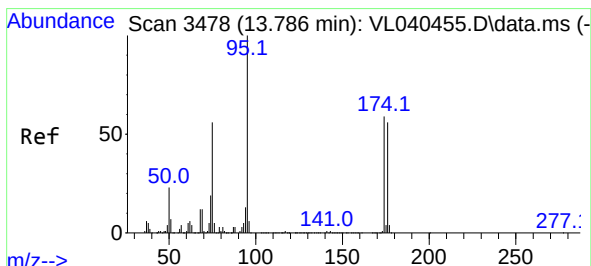
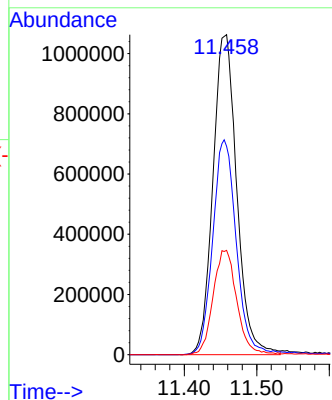
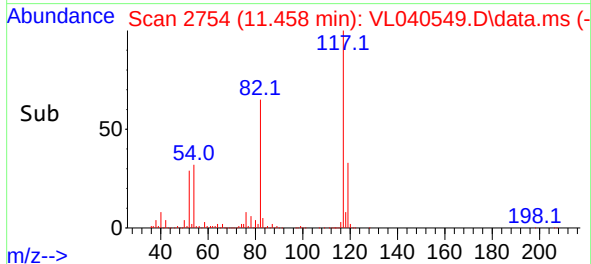


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33

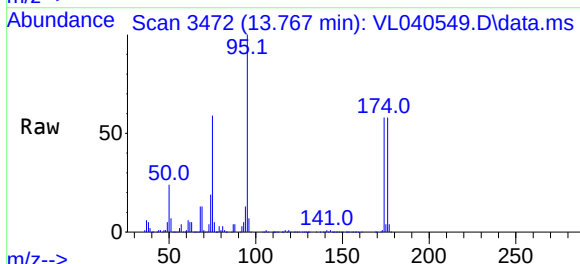
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:117 Resp: 2426804
Ion Ratio Lower Upper
117 100
82 67.2 50.2 75.4
119 32.9 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.867 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.016 min
Lab File: VL040549.D
Acq: 26 Jul 2023 20:33



Tgt Ion: 95 Resp: 1895106
Ion Ratio Lower Upper
95 100
174 61.5 50.6 75.8
175 4.4 3.7 5.5

