

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040929.D
 Acq On : 21 Dec 2023 14:33
 Operator : SY/MD
 Sample : 05813-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 00:07:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:32:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

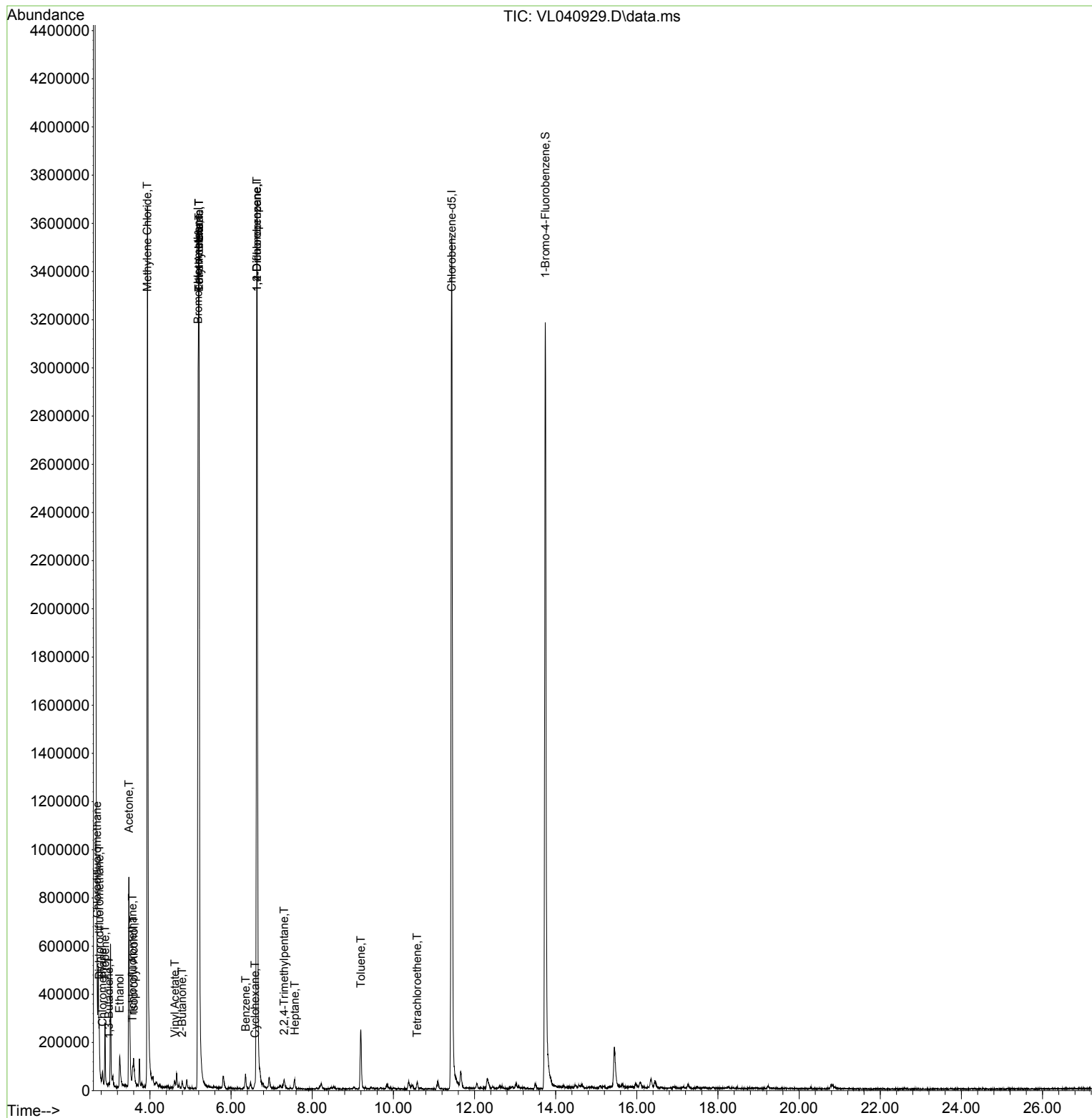
Internal Standards						
1) Bromochloromethane	5.188	49	1120840	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	2843661	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2376742	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1740507	9.942	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	108696	0.509	ppbv	99
3) Chlorodifluoromethane	2.697	51	58735	0.348	ppbv #	89
4) Chloromethane	2.832	50	35361	0.569	ppbv	94
9) Propene	2.893	41	58196	1.046	ppbv	89
10) Heptane	7.568	43	5899	0.043	ppbv #	28
11) Trichlorofluoromethane	3.571	101	22367	0.134	ppbv	99
13) Ethanol	3.253	45	147787	10.526	ppbv	94
15) Acetone	3.481	43	908614	6.759	ppbv	99
16) 1,3-Butadiene	2.986	39	2348	0.041	ppbv #	9
19) Isopropyl Alcohol	3.597	45	127193	1.813	ppbv #	89
20) Methylene Chloride	3.938	84	1242795	25.937	ppbv	98
23) Vinyl Acetate	4.619	43	10194	0.069	ppbv #	15
25) Ethyl Acetate	5.208	43	890541	3.823	ppbv #	77
26) Hexane	5.211	57	1261557	12.221	ppbv #	39
30) Cyclohexane	6.594	84	2644	0.031	ppbv #	1
34) 2-Butanone	4.793	43	18982	0.126	ppbv #	84
36) Benzene	6.359	78	40808	0.184	ppbv #	94
39) 1,2-Dichloropropane	6.639	63	709099	8.117	ppbv #	23
41) Tetrahydrofuran	5.208	42	466000	5.092	ppbv #	52
44) 2,2,4-Trimethylpentane	7.307	57	26029	0.069	ppbv #	58
52) Tetrachloroethene	10.587	164	4053	0.054	ppbv #	85
53) Toluene	9.201	91	197214	0.800	ppbv	99

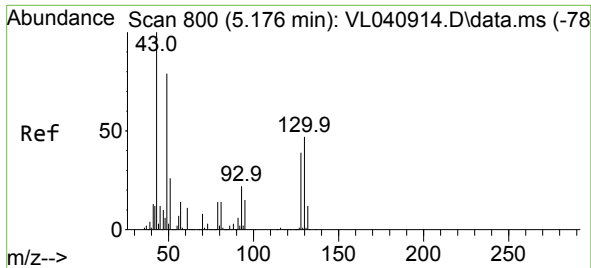
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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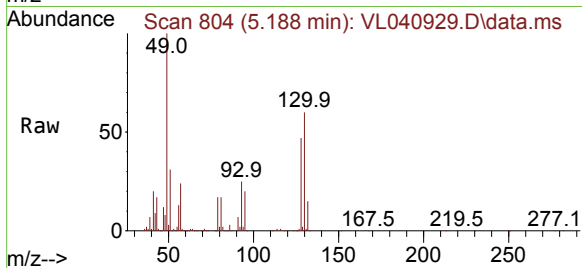
Quant Time: Dec 22 00:07:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 21 07:32:42 2023
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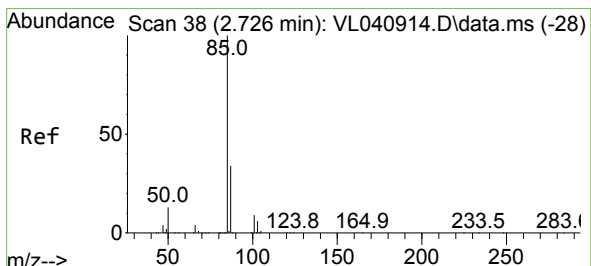
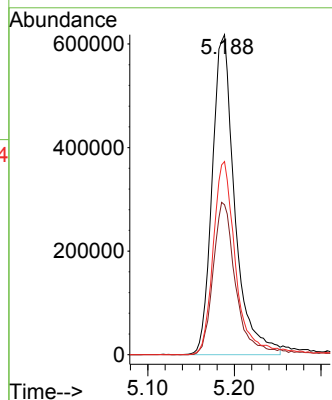
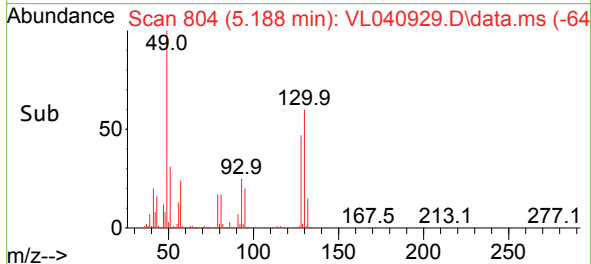


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.188 min Scan# 80
 Delta R.T. 0.012 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

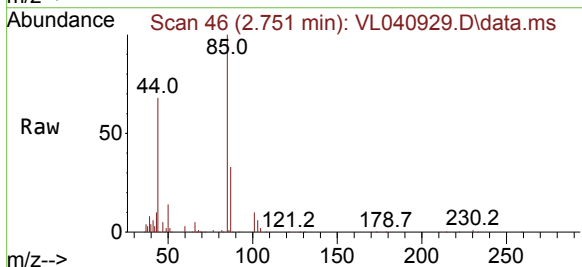
Instrument :
 MSVOA_L
 ClientSampleId :



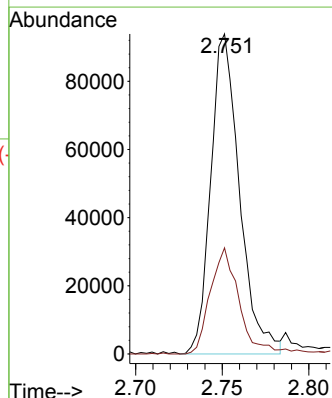
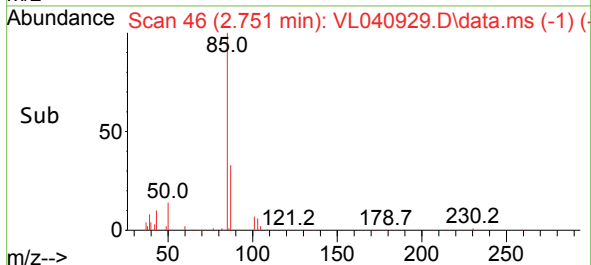
Tgt Ion: 49 Resp: 1120840
 Ion Ratio Lower Upper
 49 100
 128 49.0 23.8 71.2
 130 62.3 30.1 90.5

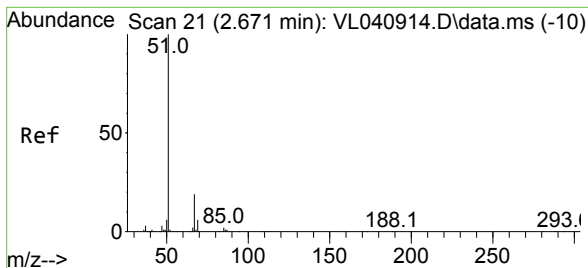


#2
 Dichlorodifluoromethane
 Concen: 0.509 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.026 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33



Tgt Ion: 85 Resp: 108696
 Ion Ratio Lower Upper
 85 100
 87 33.2 27.0 40.6

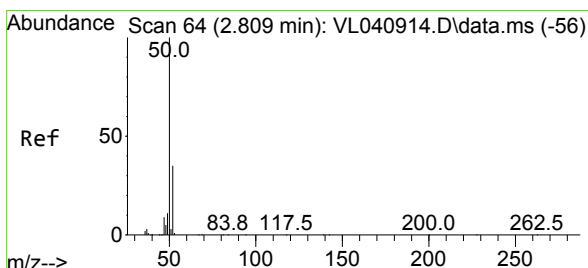
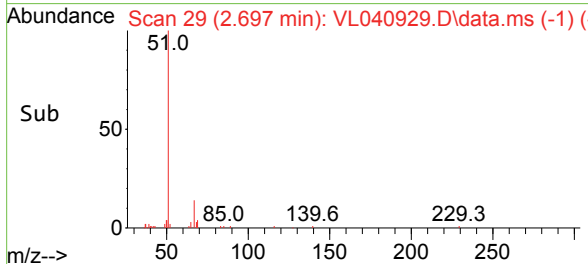
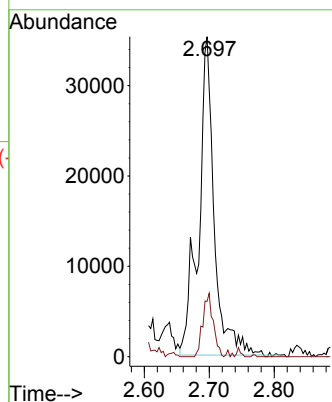
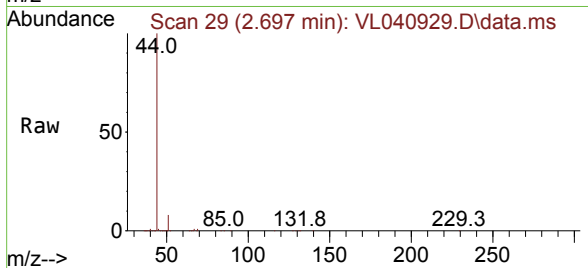




#3
Chlorodifluoromethane
Concen: 0.348 ppbv
RT: 2.697 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

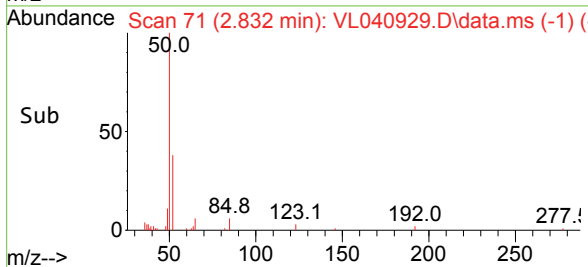
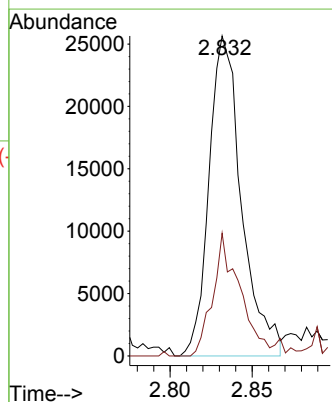
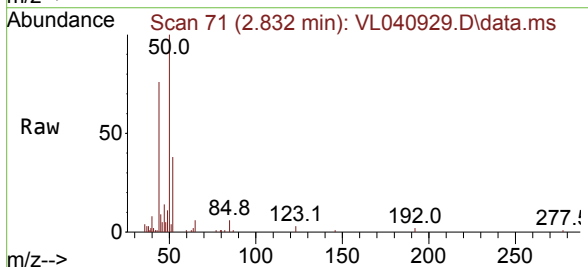
Instrument :
MSVOA_L
ClientSampleId :

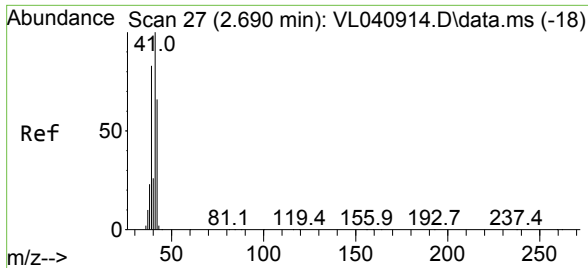
Tgt Ion: 51 Resp: 58735
Ion Ratio Lower Upper
51 100
67 13.7 14.7 22.1#



#4
Chloromethane
Concen: 0.569 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.022 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Tgt Ion: 50 Resp: 35361
Ion Ratio Lower Upper
50 100
52 38.3 28.0 42.0

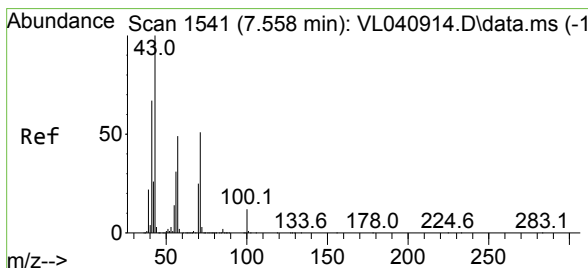
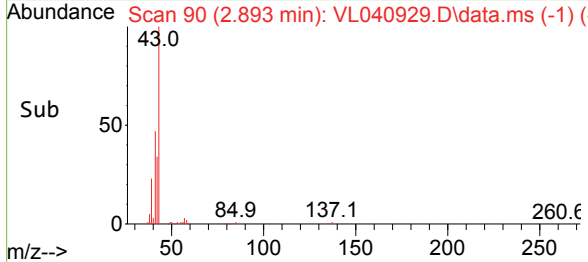
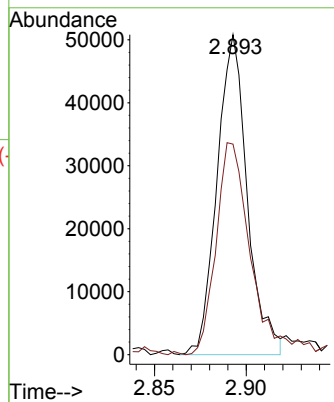
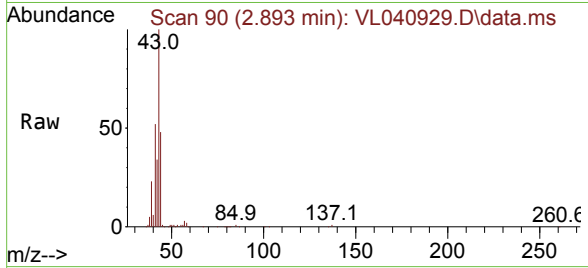




#9
 Propene
 Concen: 1.046 ppbv
 RT: 2.893 min Scan# 90
 Delta R.T. 0.203 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

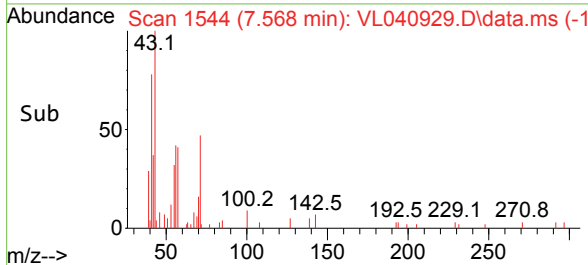
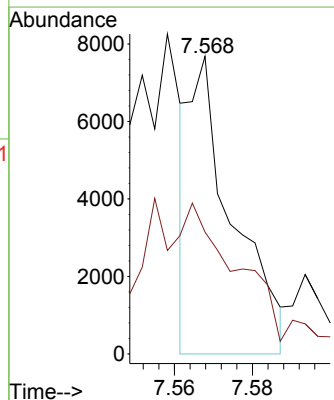
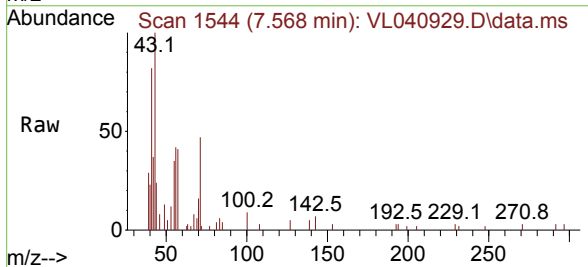
Instrument :
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 ClientSampleId :

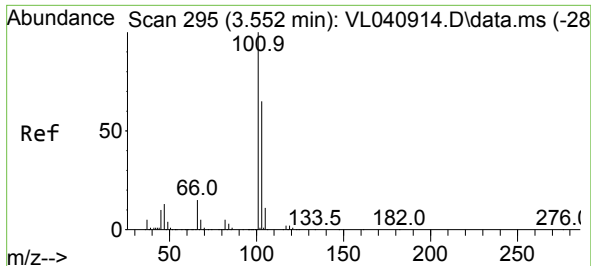
Tgt Ion: 41 Resp: 58196
 Ion Ratio Lower Upper
 41 100
 42 79.0 55.8 83.6



#10
 Heptane
 Concen: 0.043 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.010 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

Tgt Ion: 43 Resp: 5899
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.3 58.9#

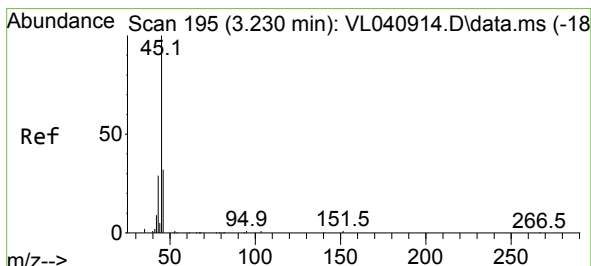
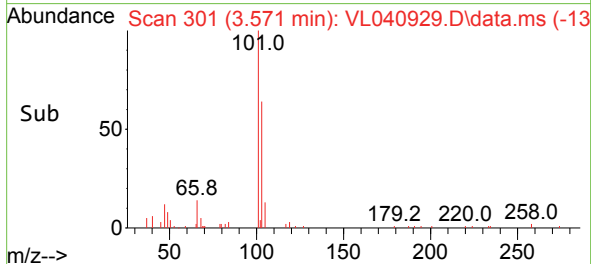
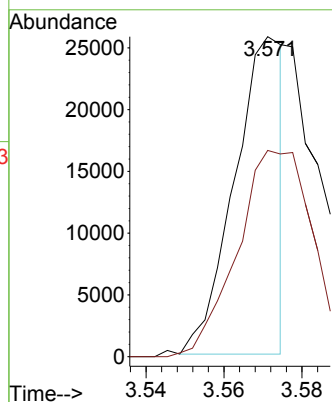
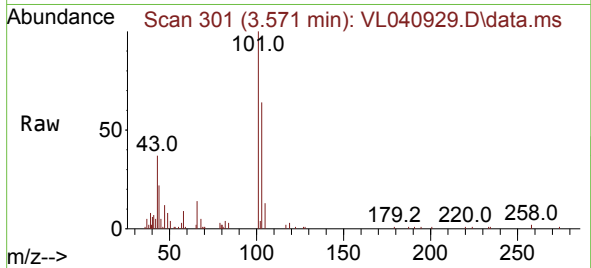




#11
 Trichlorofluoromethane
 Concen: 0.134 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.019 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

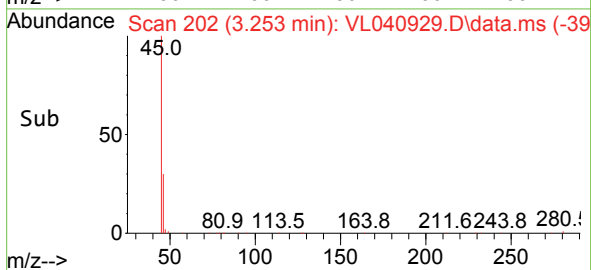
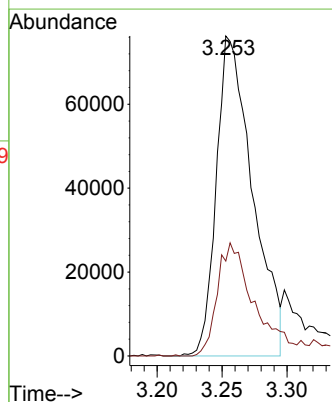
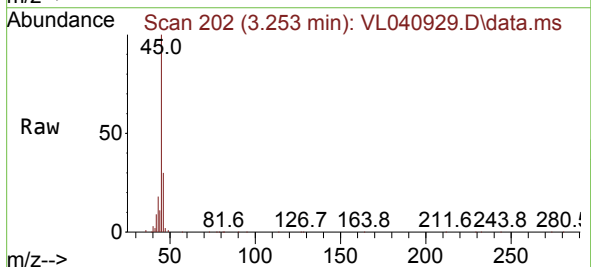
Instrument :
 MSVOA_L
 ClientSampleId :

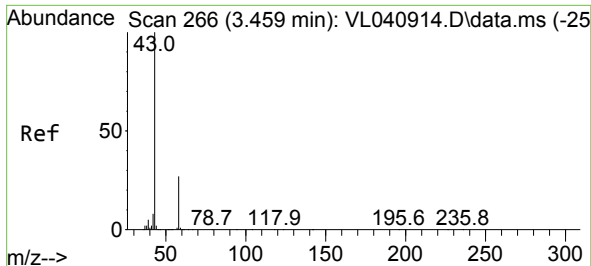
Tgt Ion:101 Resp: 22367
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.9 77.9



#13
 Ethanol
 Concen: 10.526 ppbv
 RT: 3.253 min Scan# 202
 Delta R.T. 0.023 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

Tgt Ion: 45 Resp: 147787
 Ion Ratio Lower Upper
 45 100
 46 41.0 15.0 60.0

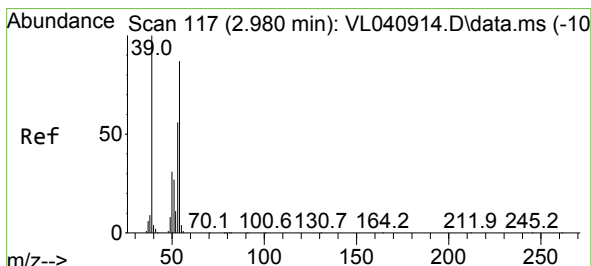
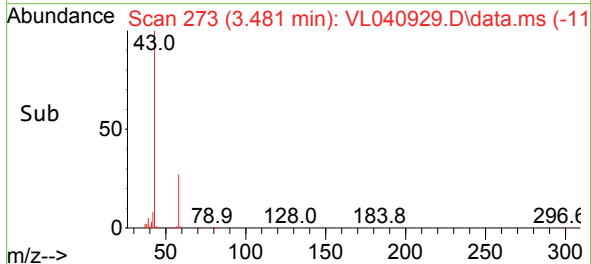
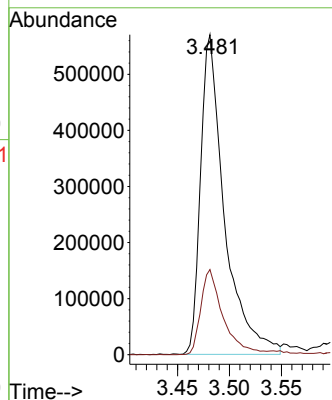
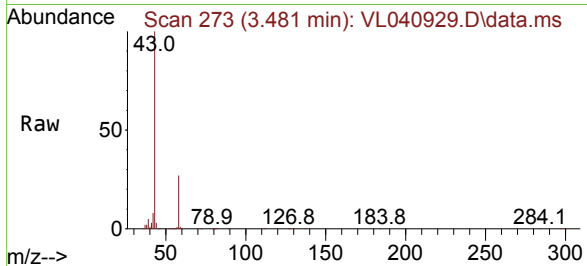




#15
Acetone
Concen: 6.759 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

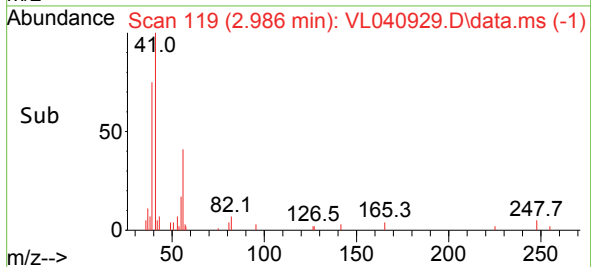
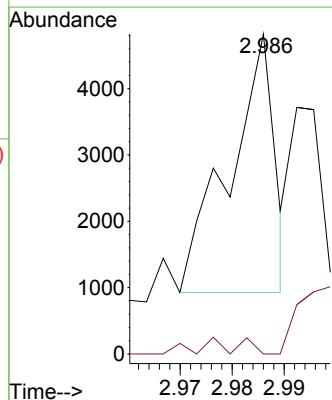
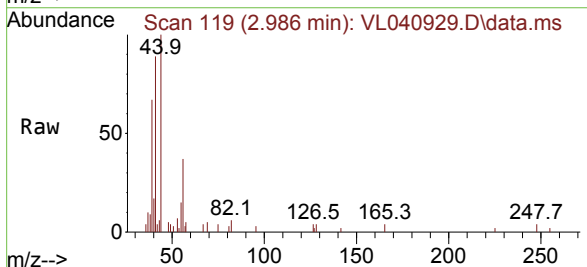
Instrument :
MSVOA_L
ClientSampleId :

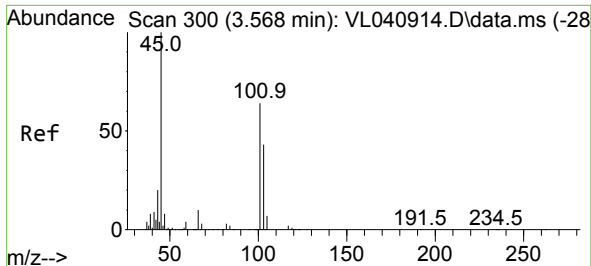
Tgt Ion: 43 Resp: 908614
Ion Ratio Lower Upper
43 100
58 26.0 20.6 30.8



#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 2.986 min Scan# 119
Delta R.T. 0.006 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Tgt Ion: 39 Resp: 2348
Ion Ratio Lower Upper
39 100
54 0.0 63.8 95.6#

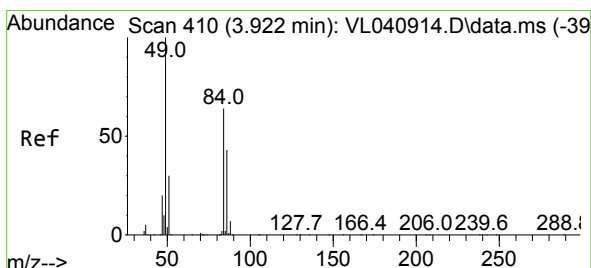
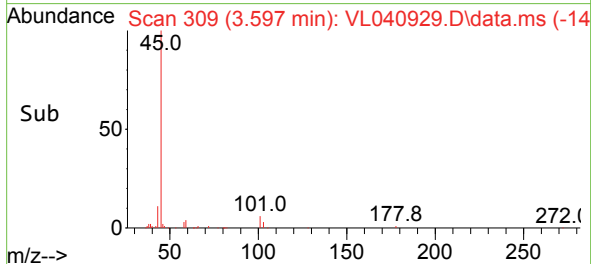
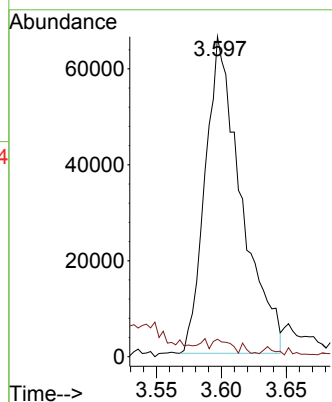
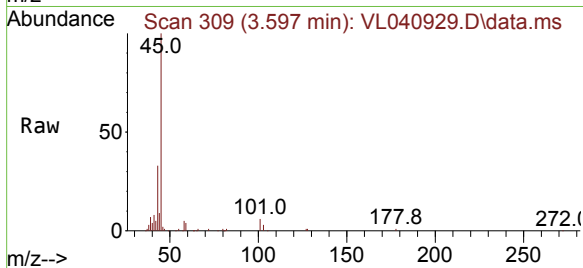




#19
Isopropyl Alcohol
Concen: 1.813 ppbv
RT: 3.597 min Scan# 300
Delta R.T. 0.029 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

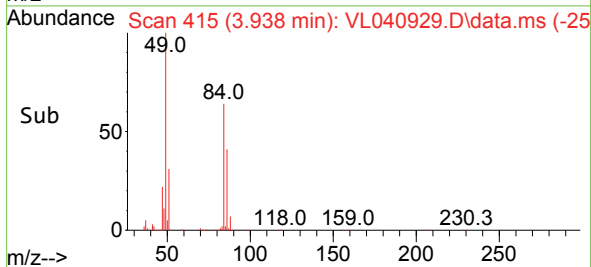
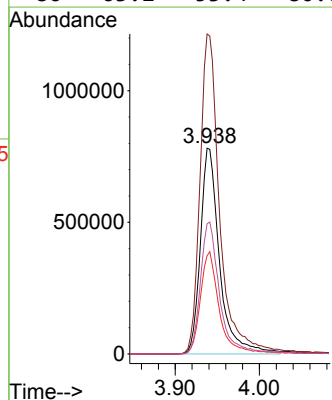
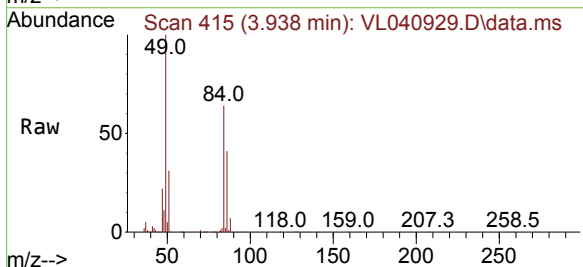
Instrument :
MSVOA_L
ClientSampleId :

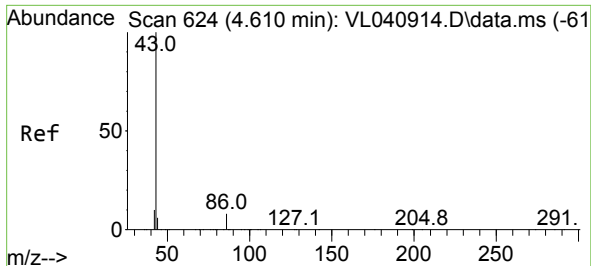
Tgt Ion: 45 Resp: 127193
Ion Ratio Lower Upper
45 100
58 5.8 1.5 2.3#



#20
Methylene Chloride
Concen: 25.937 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.016 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Tgt Ion: 84 Resp: 1242795
Ion Ratio Lower Upper
84 100
49 155.5 124.6 187.0
51 47.6 37.2 55.8
86 63.2 53.4 80.0



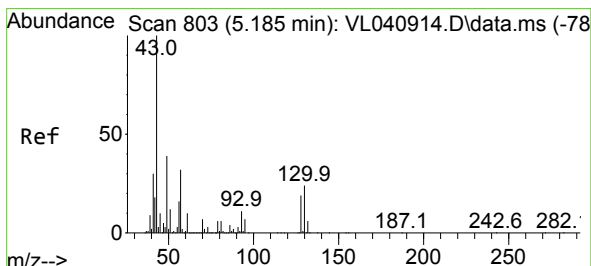
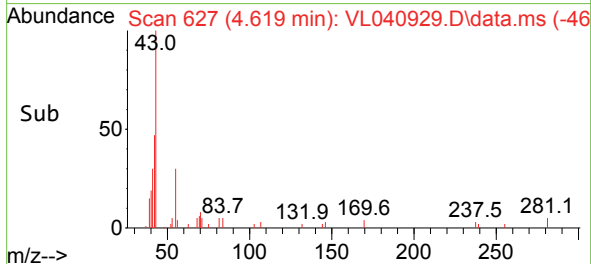
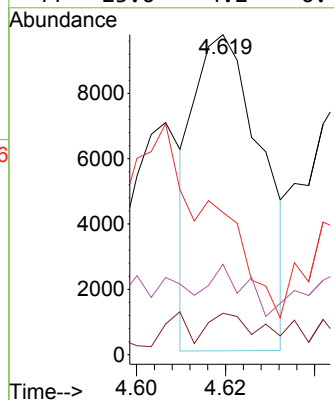
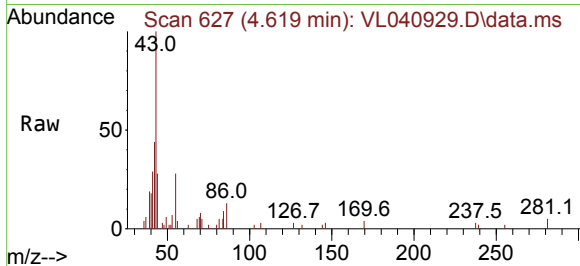


#23
 Vinyl Acetate
 Concen: 0.069 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 10194

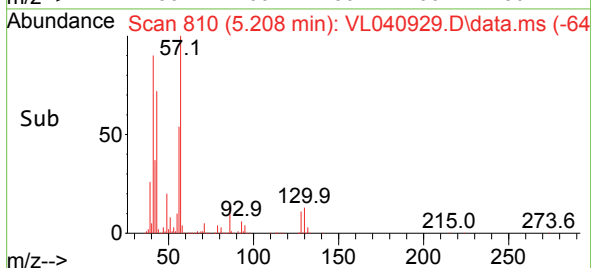
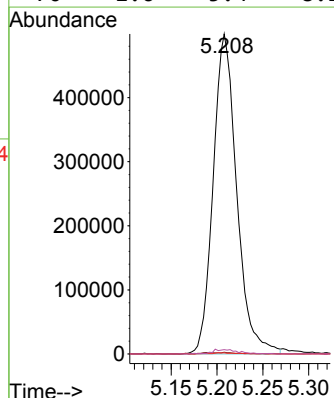
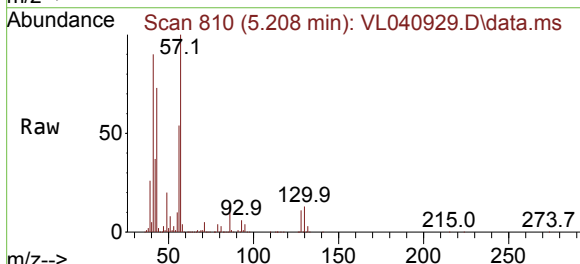
Ion	Ratio	Lower	Upper
43	100		
86	13.7	5.5	8.3#
42	63.9	8.4	12.6#
44	23.6	4.2	6.4#

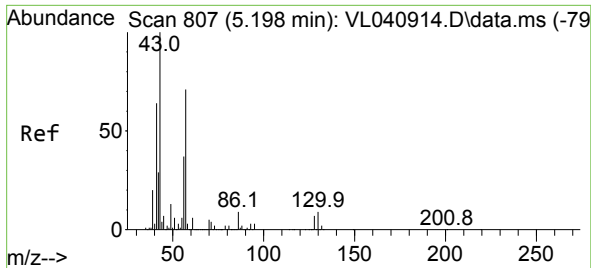


#25
 Ethyl Acetate
 Concen: 3.823 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.023 min
 Lab File: VL040929.D
 Acq: 21 Dec 2023 14:33

Tgt Ion: 43 Resp: 890541

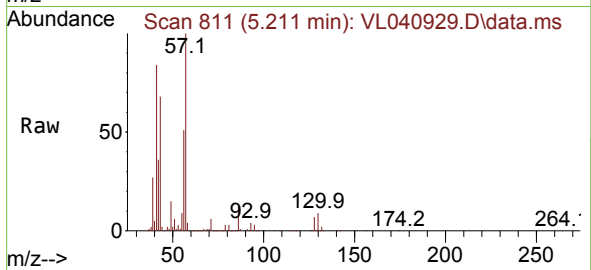
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.2	12.2#
61	0.4	7.6	11.4#
70	1.6	5.4	8.2#



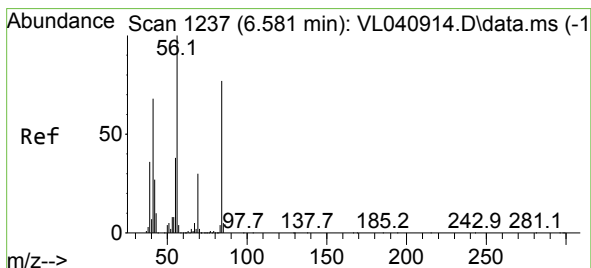
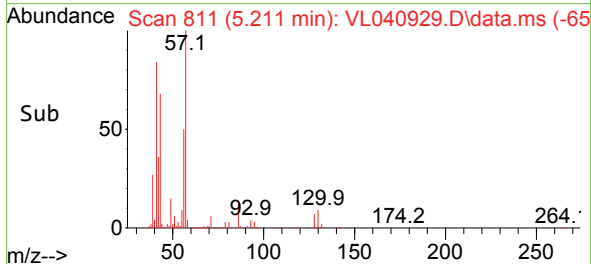
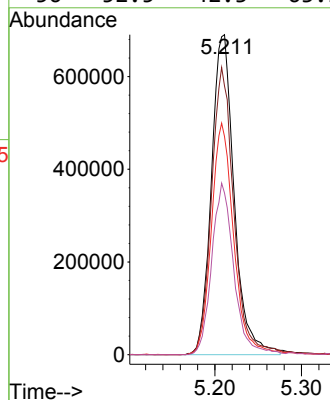


#26
Hexane
Concen: 12.221 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Instrument :
MSVOA_L
ClientSampleId :

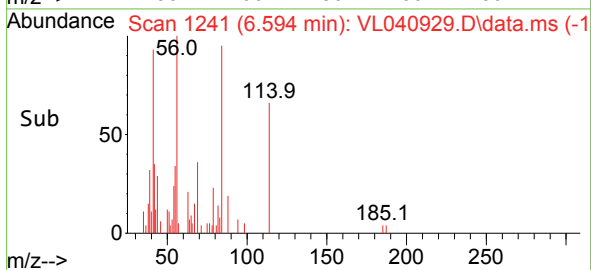
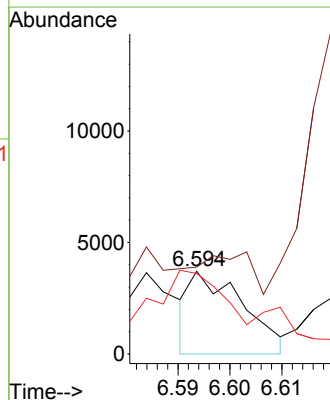
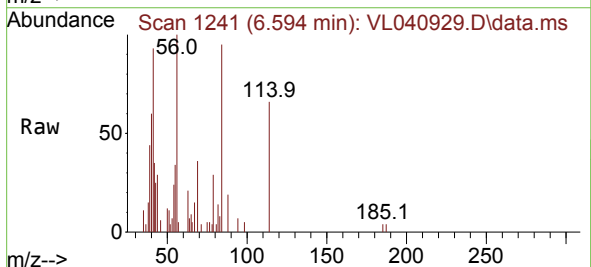


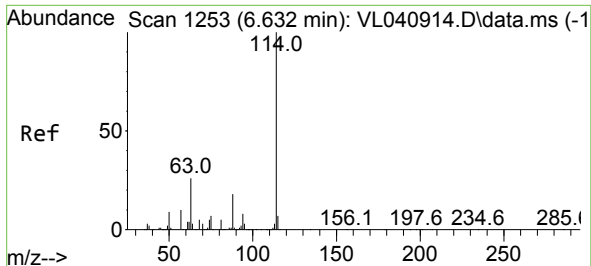
Tgt Ion: 57 Resp: 1261557
Ion Ratio Lower Upper
57 100
41 89.3 75.2 112.8
43 71.6 188.0 282.0#
56 52.5 42.3 63.5



#30
Cyclohexane
Concen: 0.031 ppbv
RT: 6.594 min Scan# 1241
Delta R.T. 0.013 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Tgt Ion: 84 Resp: 2644
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2#
41 289.4 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

Instrument :

MSVOA_L

ClientSampleId :

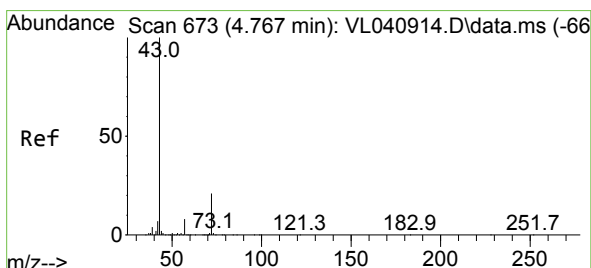
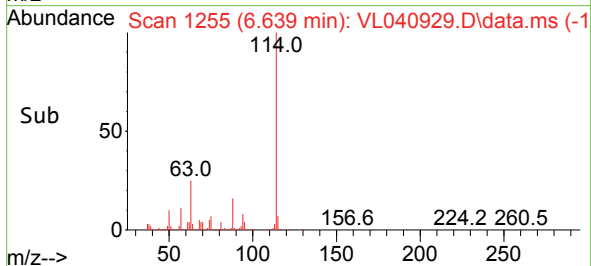
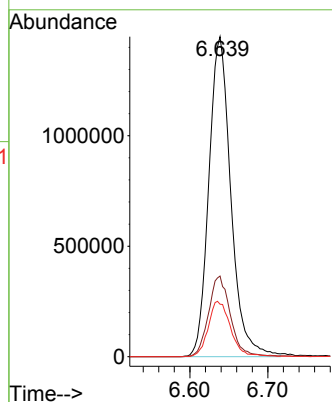
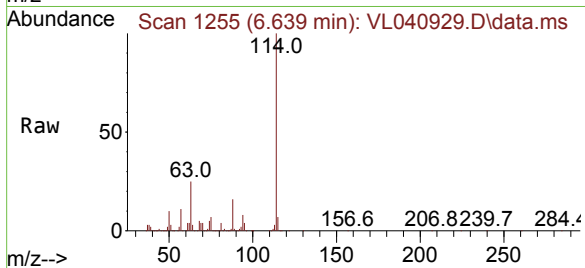
Tgt Ion:114 Resp: 2843661

Ion Ratio Lower Upper

114 100

63 25.4 21.0 31.6

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.126 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040929.D

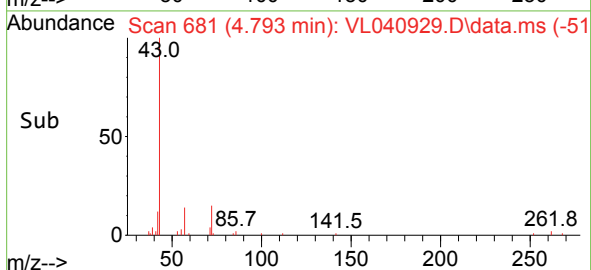
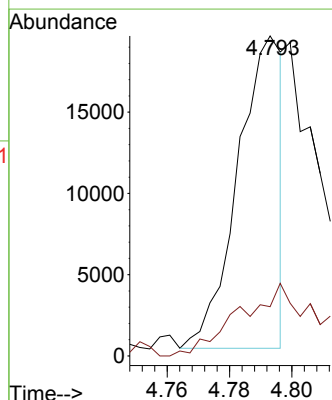
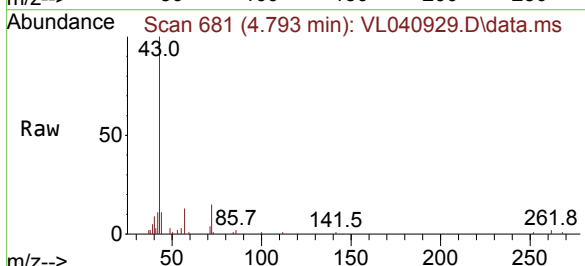
Acq: 21 Dec 2023 14:33

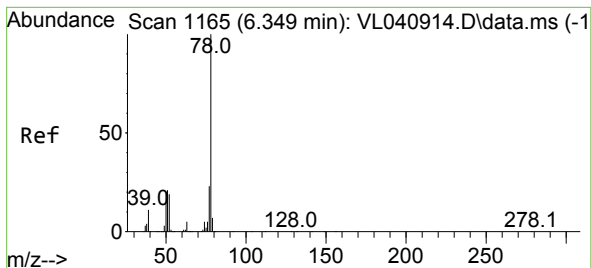
Tgt Ion: 43 Resp: 18982

Ion Ratio Lower Upper

43 100

72 13.8 17.2 25.8#





#36

Benzene

Concen: 0.184 ppbv

RT: 6.359 min Scan# 1165

Delta R.T. 0.010 min

Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

Instrument :

MSVOA_L

ClientSampleId :

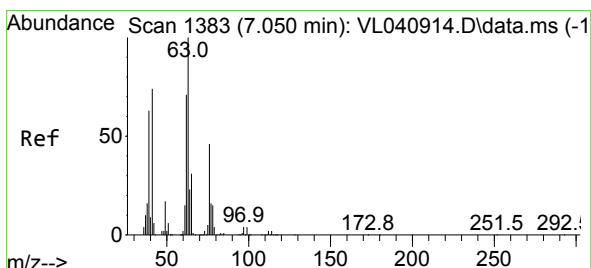
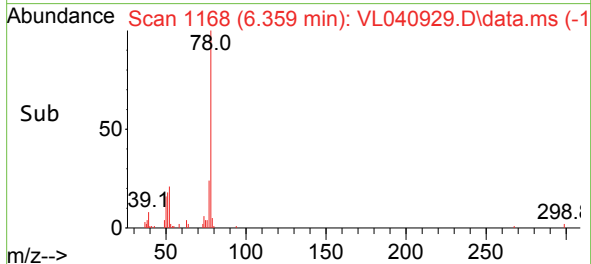
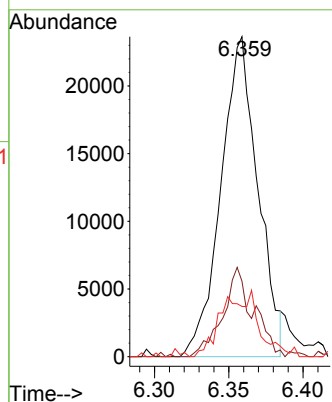
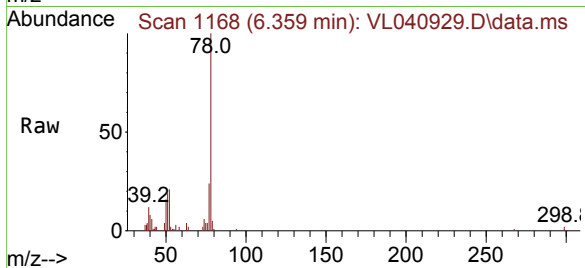
Tgt Ion: 78 Resp: 40808

Ion Ratio Lower Upper

78 100

77 23.6 18.4 27.6

50 15.0 16.0 24.0#



#39

1,2-Dichloropropane

Concen: 8.117 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.412 min

Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

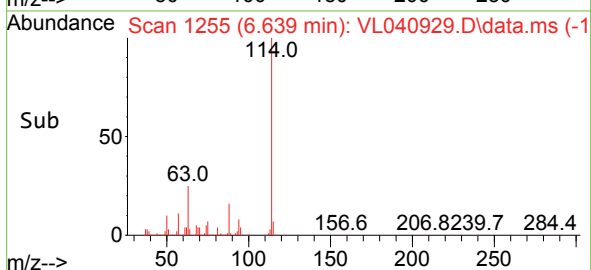
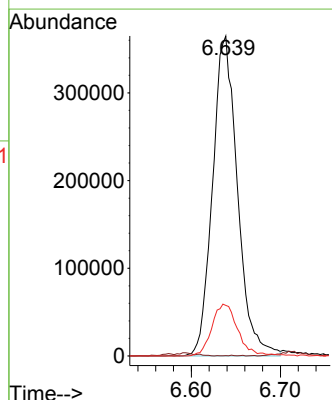
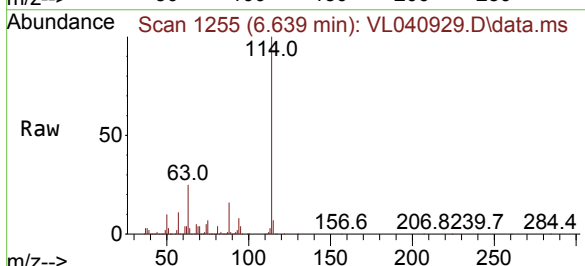
Tgt Ion: 63 Resp: 709099

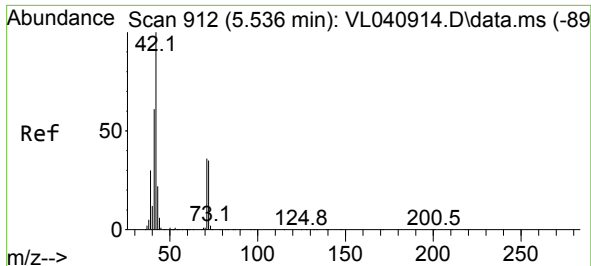
Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 15.8 56.6 85.0#





#41

Tetrahydrofuran

Concen: 5.092 ppbv

RT: 5.208 min Scan# 81

Delta R.T. -0.328 min

Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

Instrument :

MSVOA_L

ClientSampleId :

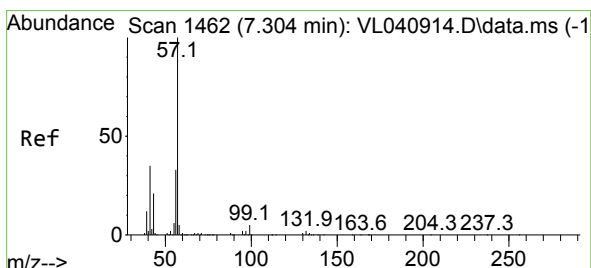
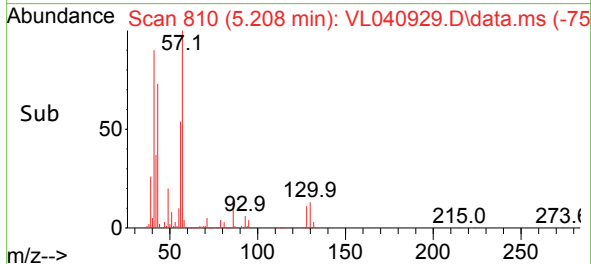
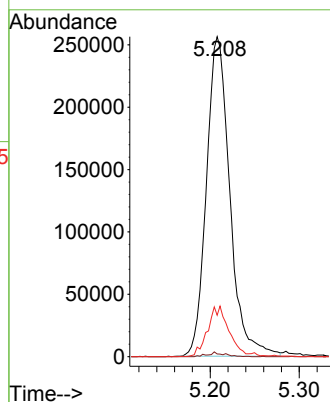
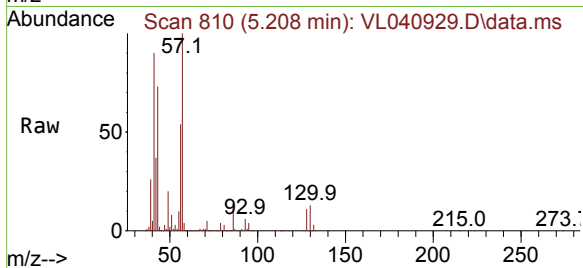
Tgt Ion: 42 Resp: 466000

Ion Ratio Lower Upper

42 100

72 1.0 29.6 44.4#

71 15.0 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.307 min Scan# 1463

Delta R.T. 0.003 min

Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

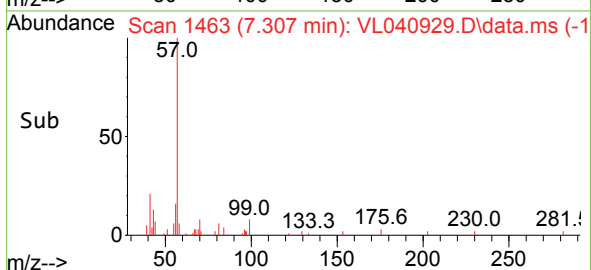
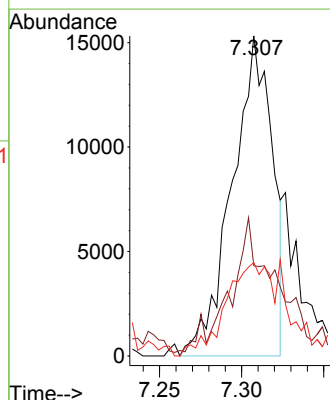
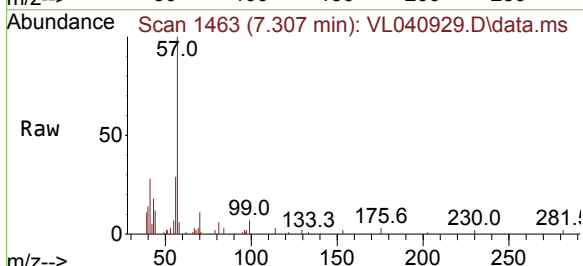
Tgt Ion: 57 Resp: 26029

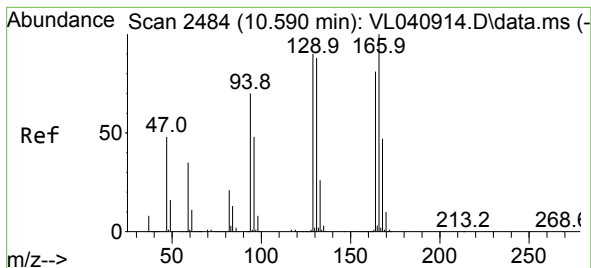
Ion Ratio Lower Upper

57 100

41 51.4 28.2 42.4#

56 0.0 25.3 37.9#





#52

Tetrachloroethene

Concen: 0.054 ppbv

RT: 10.587 min Scan# 24

Delta R.T. -0.003 min

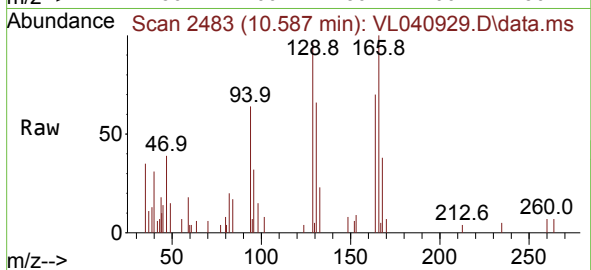
Lab File: VL040929.D

Acq: 21 Dec 2023 14:33

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 4053

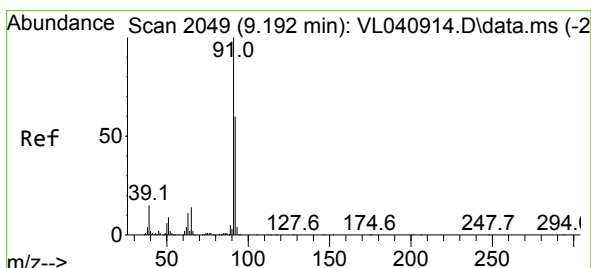
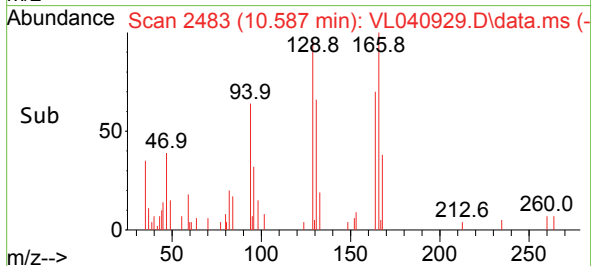
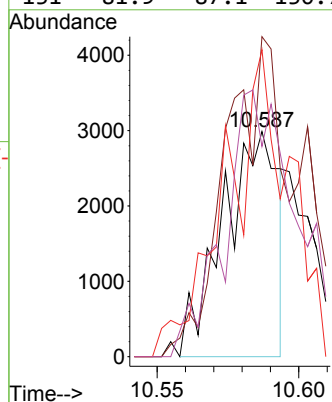
Ion Ratio Lower Upper

164 100

166 133.9 98.9 148.3

129 122.3 88.7 133.1

131 81.9 87.1 130.7#



#53

Toluene

Concen: 0.800 ppbv

RT: 9.201 min Scan# 2052

Delta R.T. 0.010 min

Lab File: VL040929.D

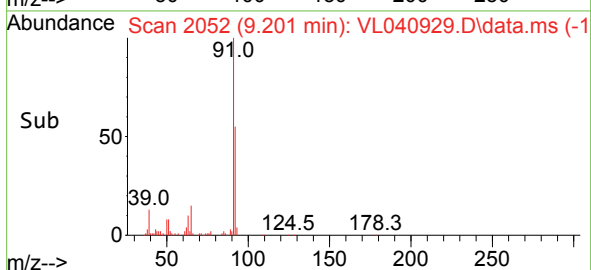
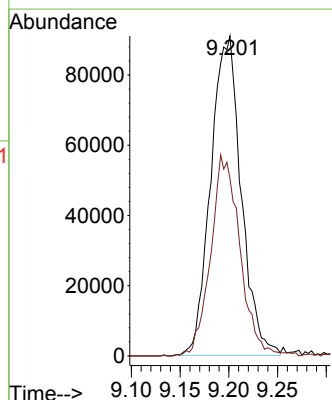
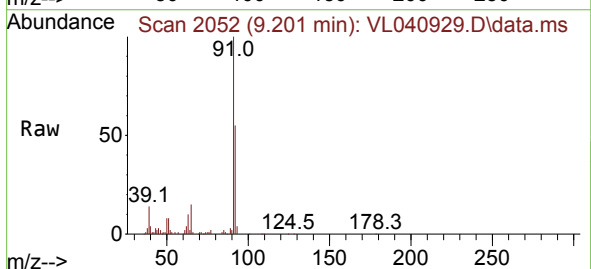
Acq: 21 Dec 2023 14:33

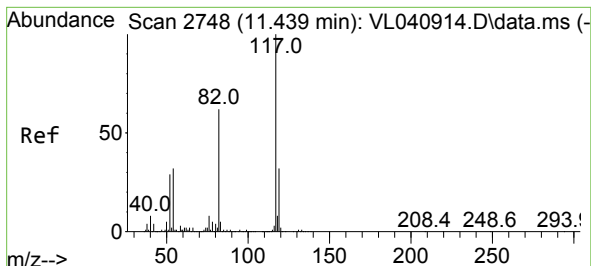
Tgt Ion: 91 Resp: 197214

Ion Ratio Lower Upper

91 100

92 60.9 49.2 73.8

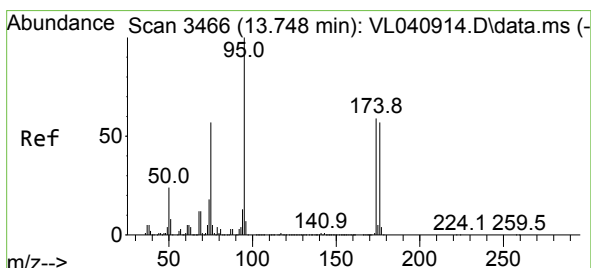
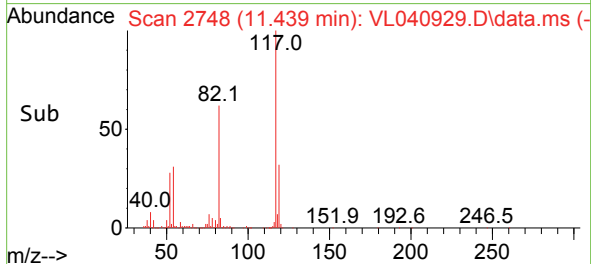
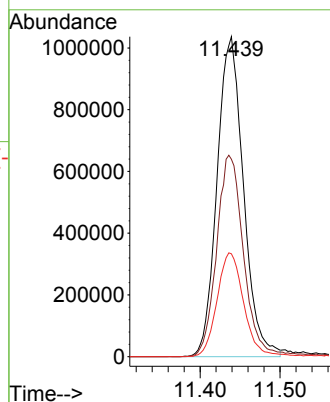
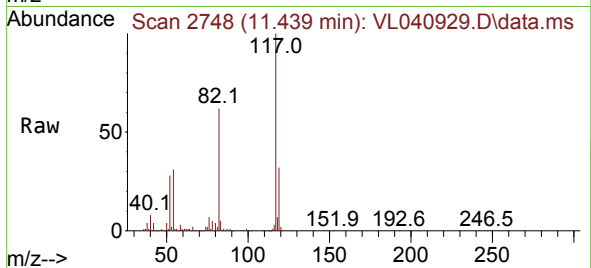




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2376742
Ion Ratio Lower Upper
117 100
82 65.6 49.6 74.4
119 32.9 23.4 35.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 13.744 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040929.D
Acq: 21 Dec 2023 14:33

Tgt Ion: 95 Resp: 1740507
Ion Ratio Lower Upper
95 100
174 61.5 48.0 72.0
175 4.6 3.7 5.5

