

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040492.D
 Acq On : 22 Jun 2023 19:25
 Operator : SY/MD
 Sample : 03300-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

Quant Time: Jun 23 01:32:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

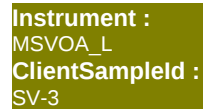
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

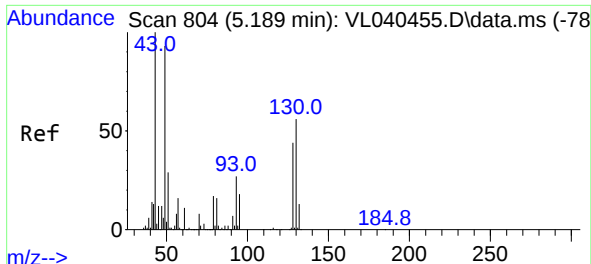
Internal Standards						
1) Bromochloromethane	5.182	49	1017665	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2512305	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.455	117	2158082	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1730135	9.714	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	32481	0.147	ppbv	99
3) Chlorodifluoromethane	2.649	51	205514	1.233	ppbv #	58
4) Chloromethane	2.809	50	7626	0.118	ppbv #	81
7) Chloroethane	3.189	64	2618	0.109	ppbv #	72
9) Propene	2.697	41	273154	5.314	ppbv	86
11) Trichlorofluoromethane	3.555	101	17648	0.098	ppbv	89
13) Ethanol	3.227	45	1101747	103.510	ppbv	98
15) Acetone	3.459	43	1029973	8.391	ppbv	96
16) 1,3-Butadiene	2.964	39	37742	0.632	ppbv #	28
17) tert-Butyl alcohol	3.565	59	55388	0.549	ppbv	97
19) Isopropyl Alcohol	3.568	45	1525758	25.790	ppbv #	96
20) Methylene Chloride	3.925	84	357048	6.816	ppbv	96
21) Allyl Chloride	3.922	41	14482	0.209	ppbv #	19
23) Vinyl Acetate	4.597	43	9274	0.077	ppbv #	1
25) Ethyl Acetate	5.198	43	94889	0.427	ppbv #	88
26) Hexane	5.202	57	117940	1.120	ppbv #	44
27) Carbon Disulfide	4.118	76	45655	0.347	ppbv #	62
30) Cyclohexane	6.594	84	9457	0.111	ppbv #	20
34) 2-Butanone	4.780	43	76159	0.629	ppbv	94
36) Benzene	6.362	78	7973	0.040	ppbv #	90
39) 1,2-Dichloropropane	6.642	63	642146	8.336	ppbv #	22
41) Tetrahydrofuran	5.558	42	25632	0.387	ppbv	98

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

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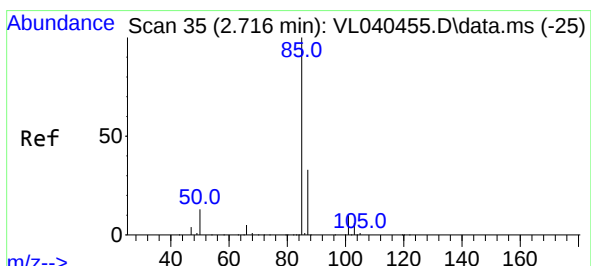
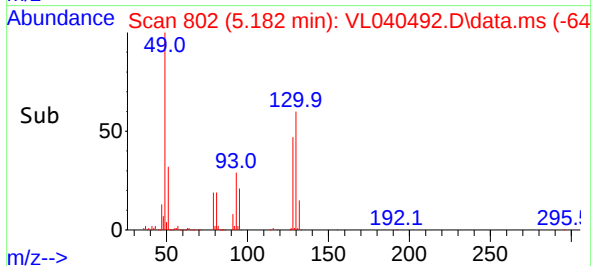
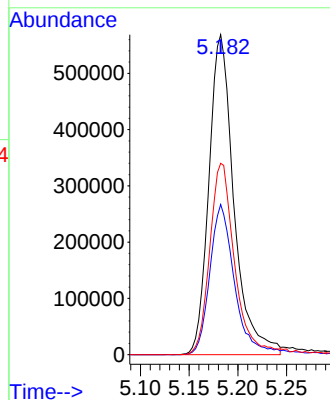
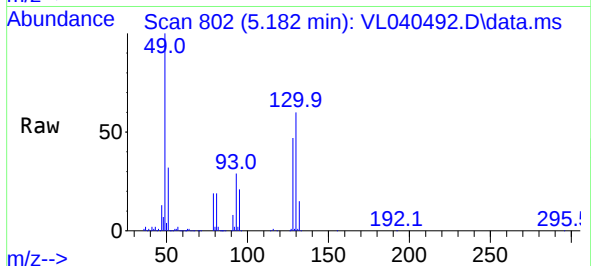




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040492.D
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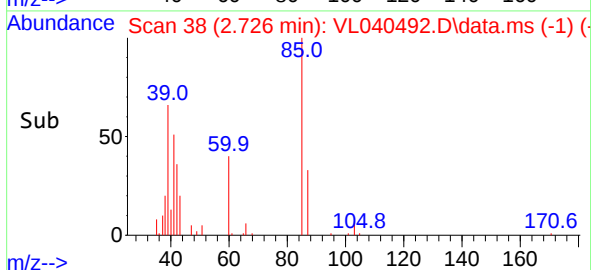
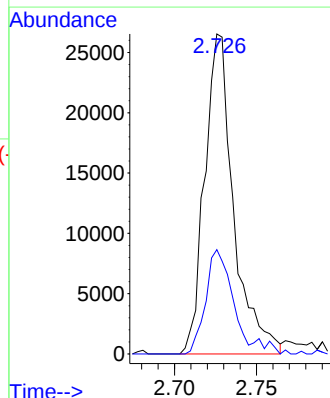
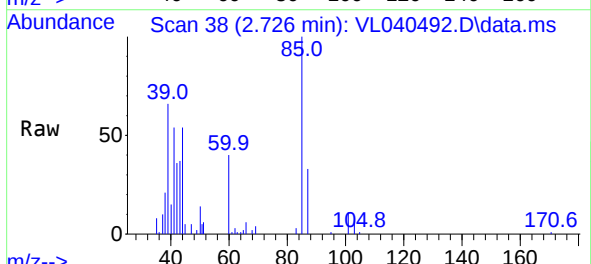
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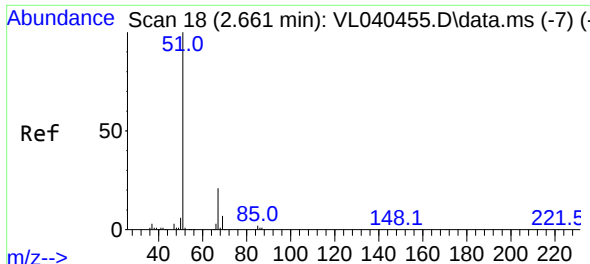
Tgt Ion: 49 Resp: 1017665
Ion Ratio Lower Upper
49 100
128 48.0 24.7 74.1
130 61.0 31.4 94.2



#2
Dichlorodifluoromethane
Concen: 0.147 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 85 Resp: 32481
Ion Ratio Lower Upper
85 100
87 32.6 26.6 39.8

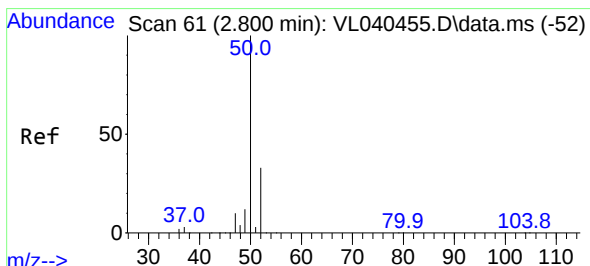
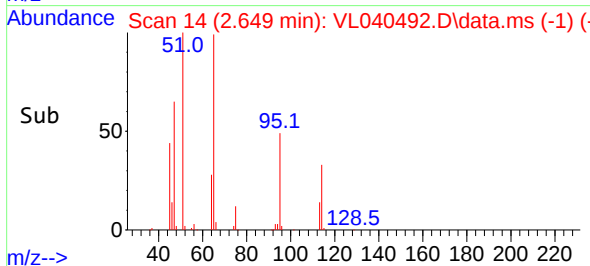
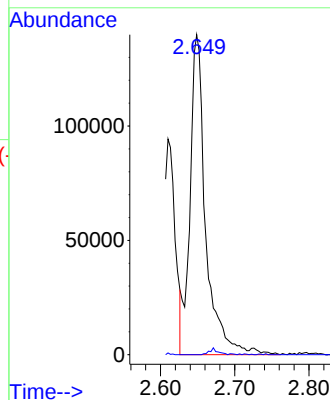
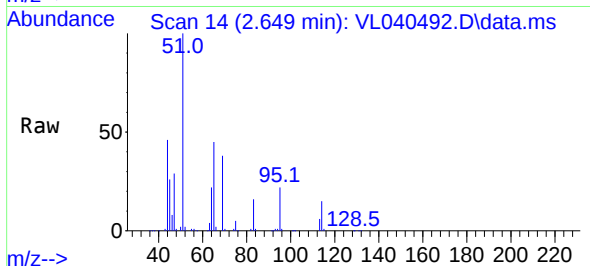




#3
Chlorodifluoromethane
Concen: 1.233 ppbv
RT: 2.649 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

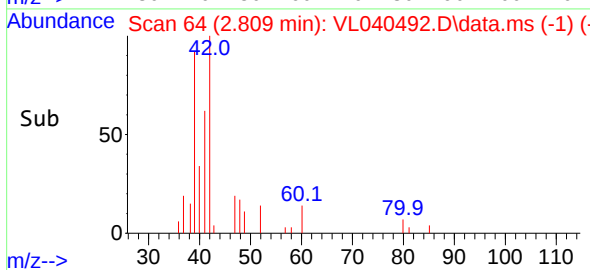
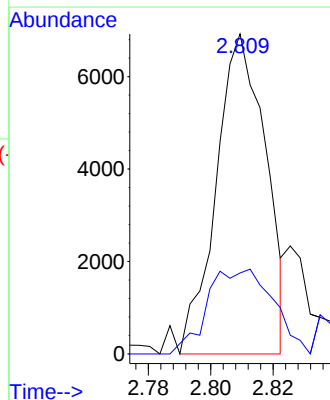
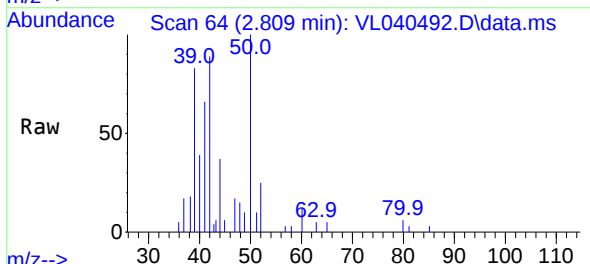
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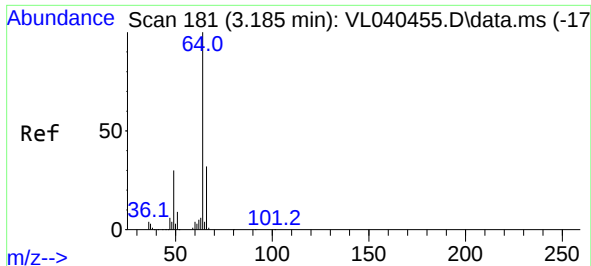
Tgt Ion: 51 Resp: 205514
Ion Ratio Lower Upper
51 100
67 1.2 16.3 24.5#



#4
Chloromethane
Concen: 0.118 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.010 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 50 Resp: 7626
Ion Ratio Lower Upper
50 100
52 22.1 26.3 39.5#

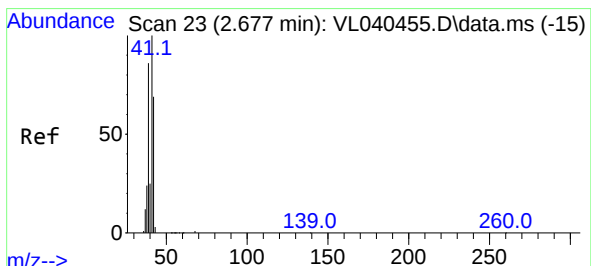
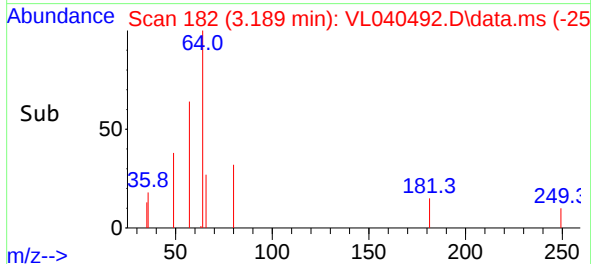
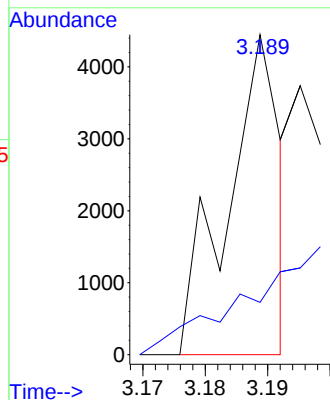
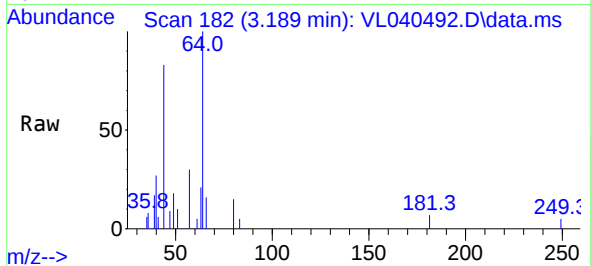




#7
Chloroethane
Concen: 0.109 ppbv
RT: 3.189 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

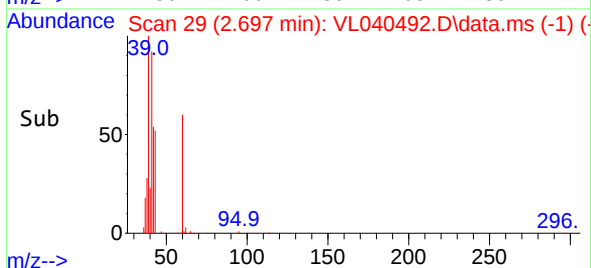
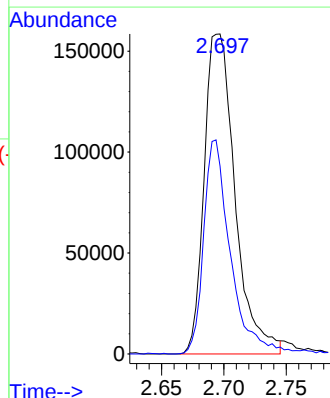
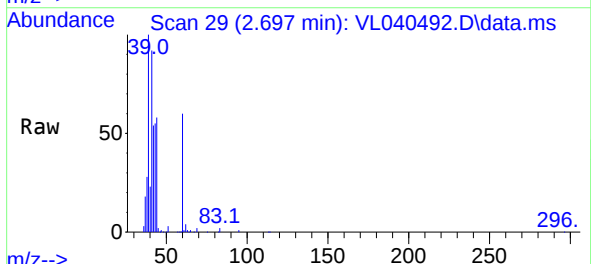
Instrument :
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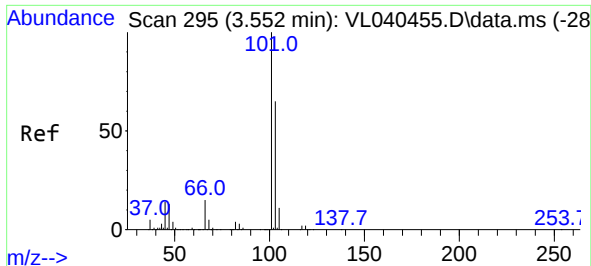
Tgt Ion: 64 Resp: 2618
Ion Ratio Lower Upper
64 100
66 16.4 25.6 38.4#



#9
Propene
Concen: 5.314 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.019 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 41 Resp: 273154
Ion Ratio Lower Upper
41 100
42 58.8 56.2 84.2

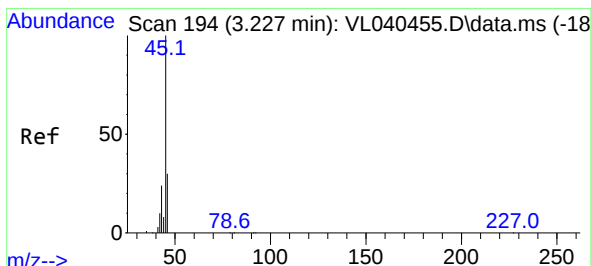
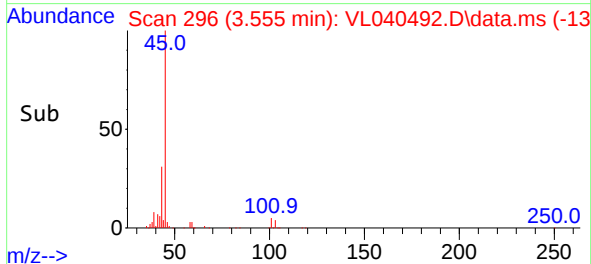
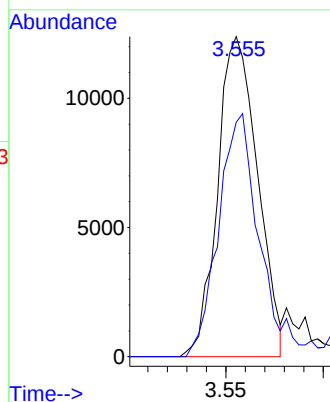
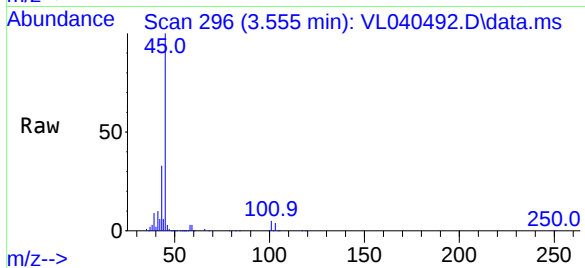




#11
Trichlorofluoromethane
Concen: 0.098 ppbv
RT: 3.555 min Scan# 295
Delta R.T. 0.003 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

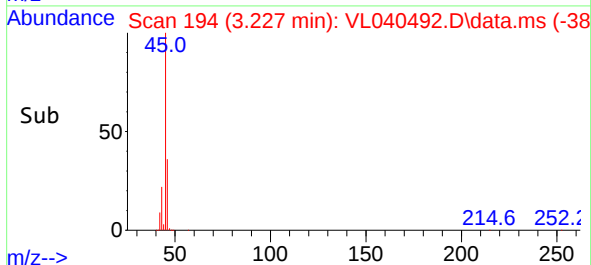
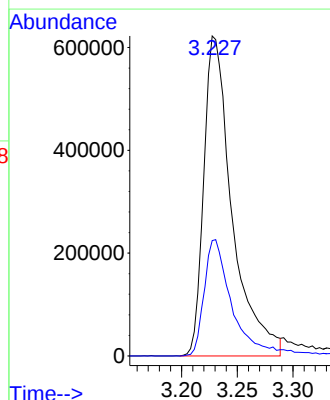
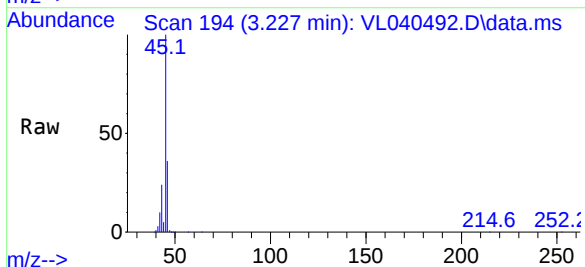
Instrument :
MSVOA_L
ClientSampleId :
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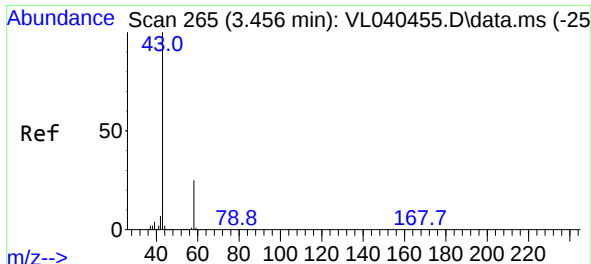
Tgt Ion:101 Resp: 17648
Ion Ratio Lower Upper
101 100
103 73.2 51.7 77.5



#13
Ethanol
Concen: 103.510 ppbv
RT: 3.227 min Scan# 194
Delta R.T. 0.000 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 45 Resp: 1101747
Ion Ratio Lower Upper
45 100
46 37.3 14.5 58.1

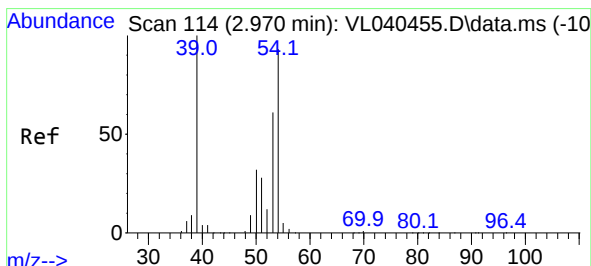
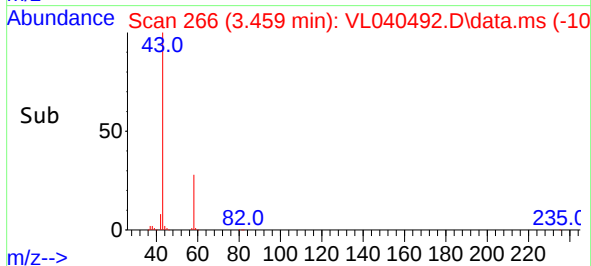
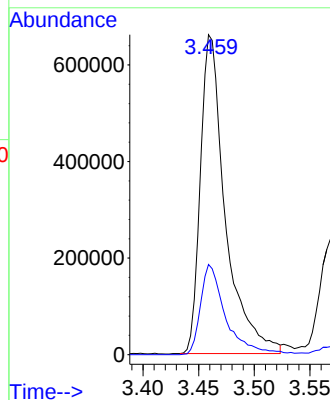
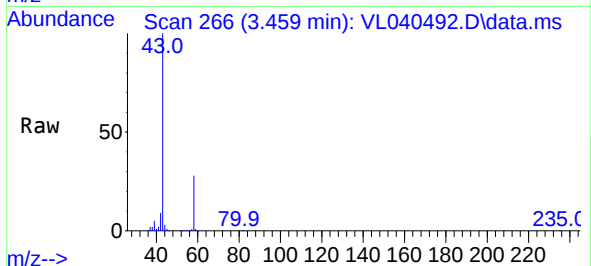




#15
Acetone
Concen: 8.391 ppbv
RT: 3.459 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

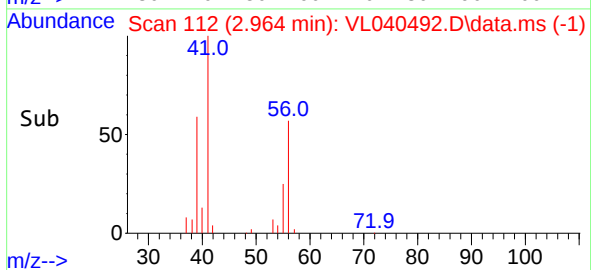
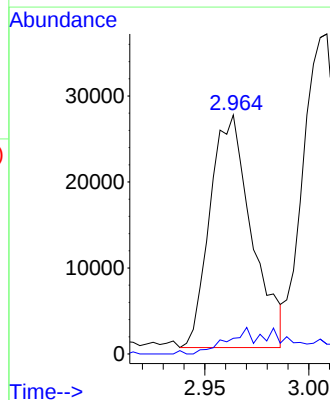
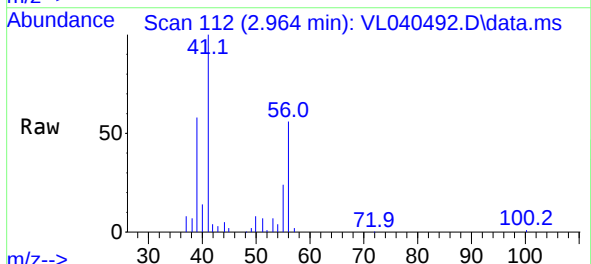
Instrument :
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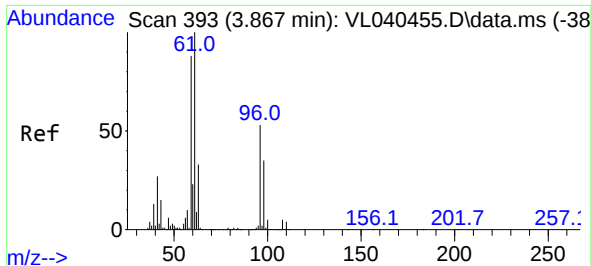
Tgt Ion: 43 Resp: 1029973
Ion Ratio Lower Upper
43 100
58 28.8 21.6 32.4



#16
1,3-Butadiene
Concen: 0.632 ppbv
RT: 2.964 min Scan# 112
Delta R.T. -0.006 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 39 Resp: 37742
Ion Ratio Lower Upper
39 100
54 18.5 66.9 100.3#

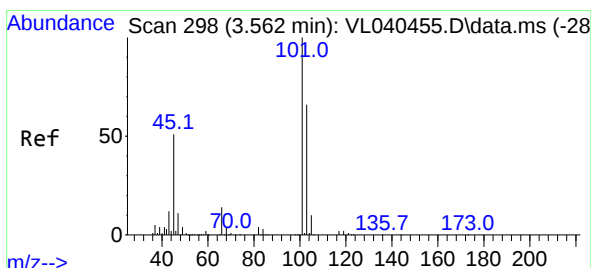
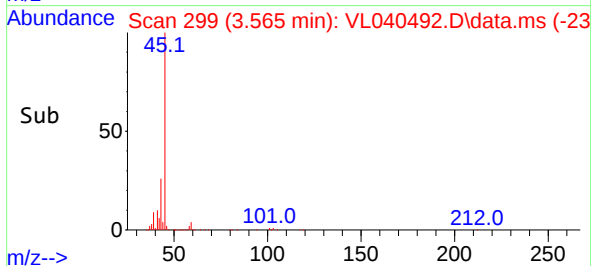
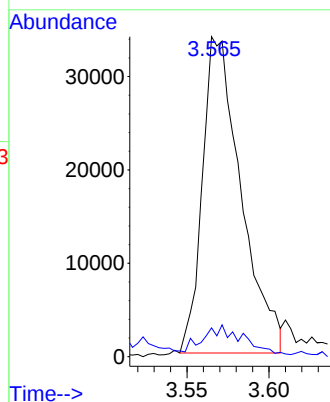
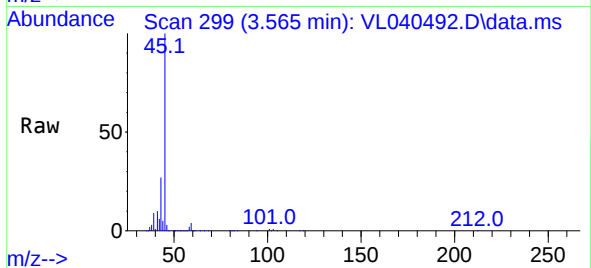




#17
tert-Butyl alcohol
Concen: 0.549 ppbv
RT: 3.565 min Scan# 24
Delta R.T. -0.302 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

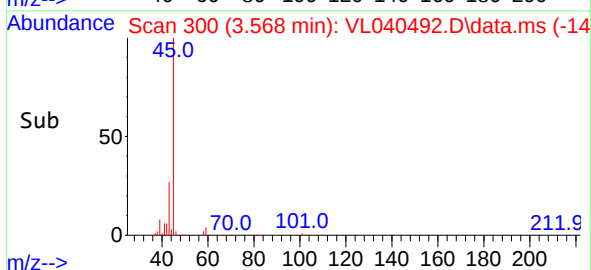
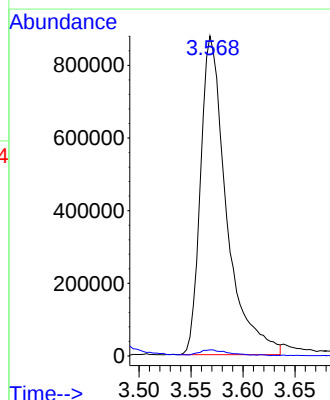
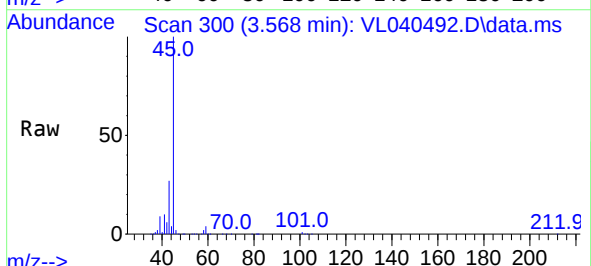
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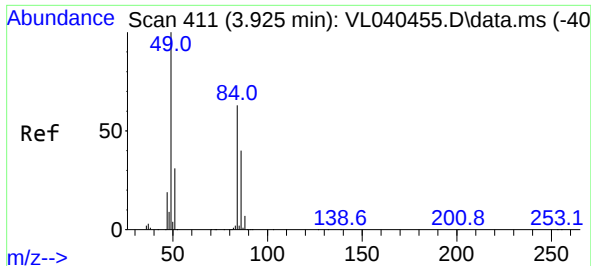
Tgt Ion: 59 Resp: 55388
Ion Ratio Lower Upper
59 100
57 9.8 8.8 13.2



#19
Isopropyl Alcohol
Concen: 25.790 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.007 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 45 Resp: 1525758
Ion Ratio Lower Upper
45 100
58 2.0 2.6 4.0#



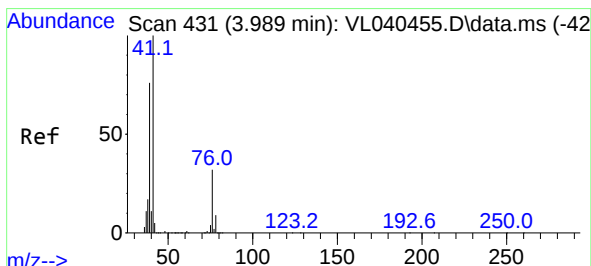
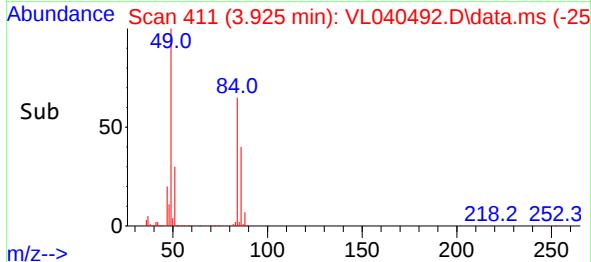
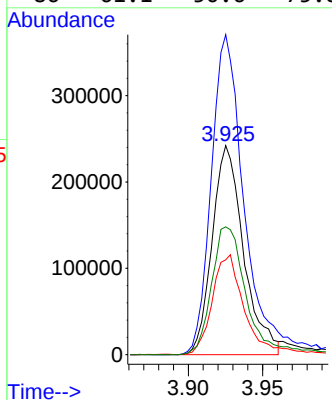
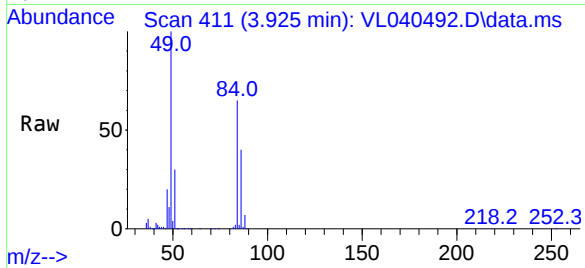


#20
Methylene Chloride
Concen: 6.816 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Instrument :
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ClientSampleId :
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Tgt Ion: 84 Resp: 357048

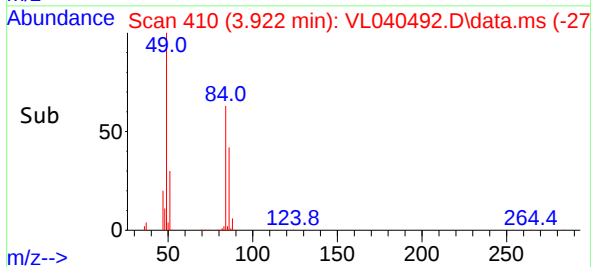
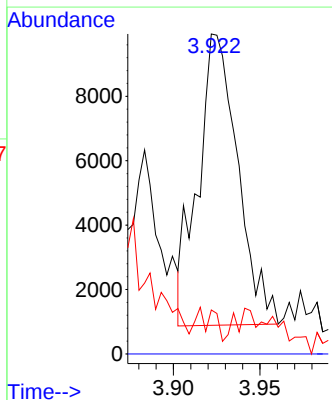
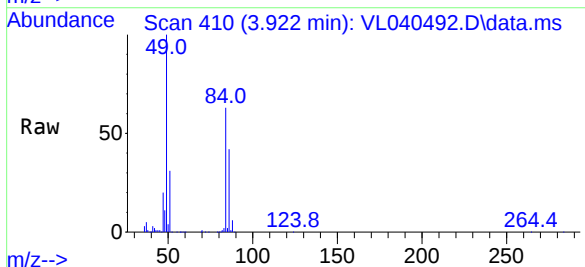
Ion	Ratio	Lower	Upper
84	100		
49	153.0	126.2	189.2
51	45.3	38.7	58.1
86	61.1	50.6	75.8

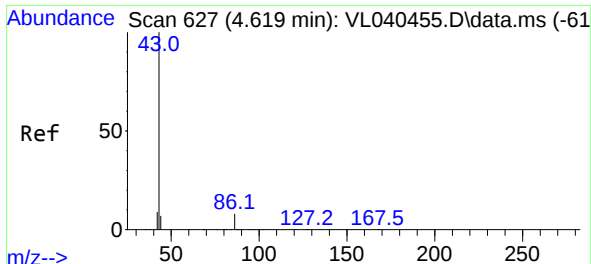


#21
Allyl Chloride
Concen: 0.209 ppbv
RT: 3.922 min Scan# 410
Delta R.T. -0.067 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 41 Resp: 14482

Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.1	39.1#
39	0.0	63.9	95.9#



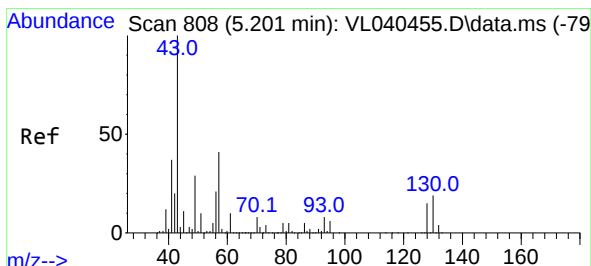
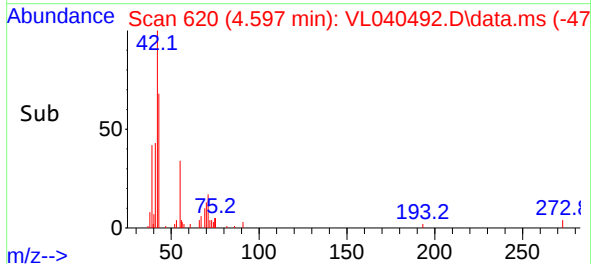
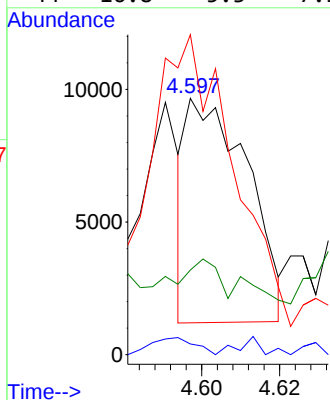
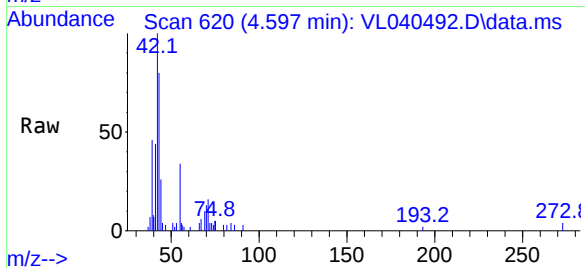


#23
 Vinyl Acetate
 Concen: 0.077 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.022 min
 Lab File: VL040492.D
 Acq: 22 Jun 2023 19:25

Instrument :
 MSVOA_1
 ClientSampleId :
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Tgt Ion: 43 Resp: 9274

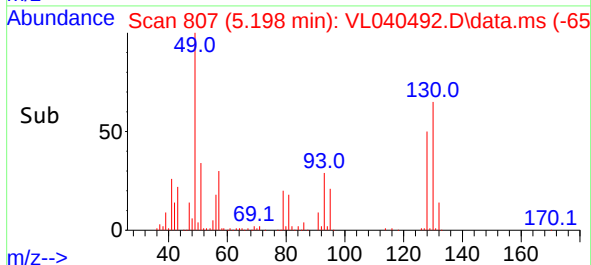
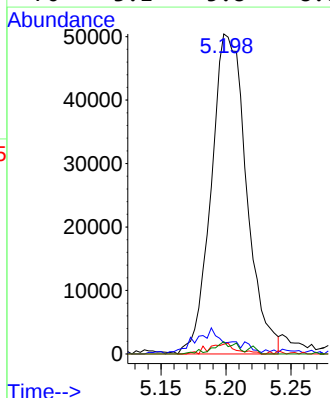
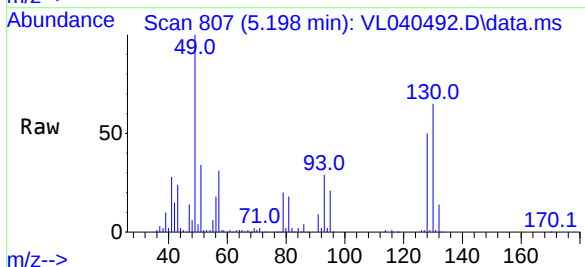
Ion	Ratio	Lower	Upper
43	100		
86	2.4	5.8	8.6#
42	140.8	7.4	11.2#
44	16.8	5.3	7.9#

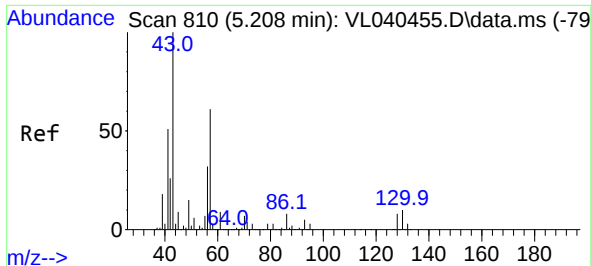


#25
 Ethyl Acetate
 Concen: 0.427 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.003 min
 Lab File: VL040492.D
 Acq: 22 Jun 2023 19:25

Tgt Ion: 43 Resp: 94889

Ion	Ratio	Lower	Upper
43	100		
45	8.7	8.0	12.0
61	2.6	8.1	12.1#
70	3.1	5.8	8.6#

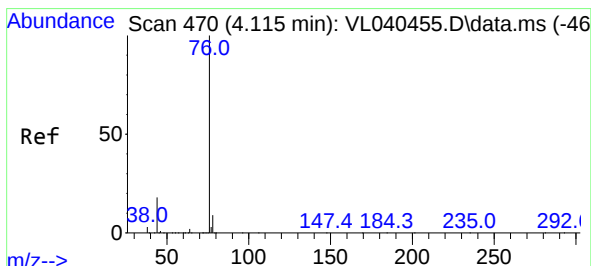
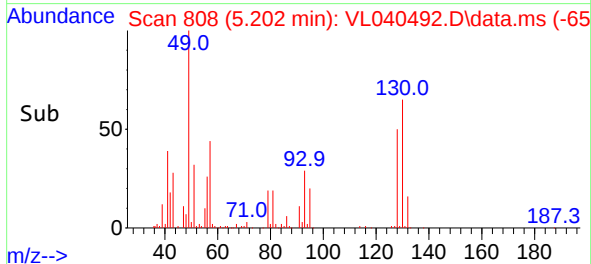
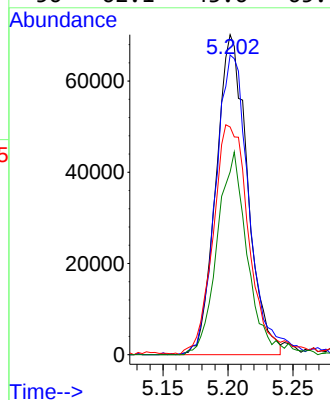
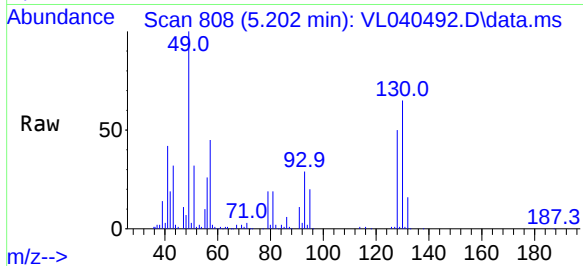




#26
Hexane
Concen: 1.120 ppbv
RT: 5.202 min Scan# 810
Delta R.T. -0.006 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

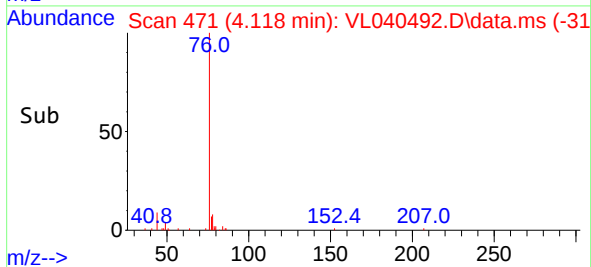
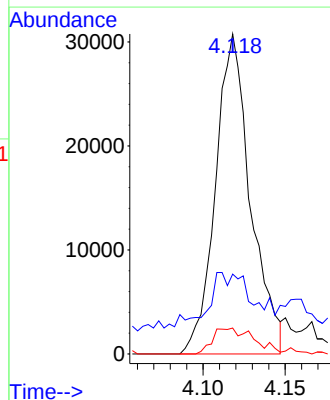
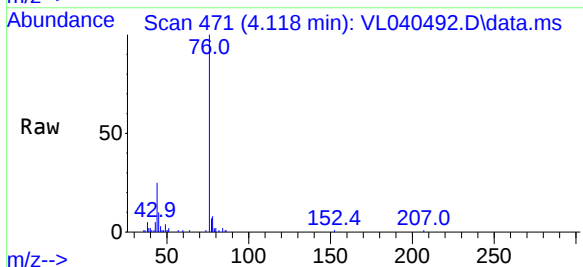
Instrument :
MSVOA_L
ClientSampleId :
SV-3

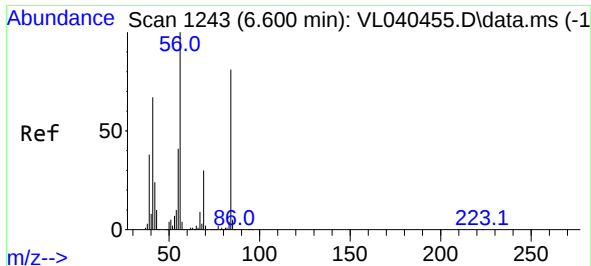
Tgt Ion: 57 Resp: 117940
Ion Ratio Lower Upper
57 100
41 101.3 73.0 109.6
43 84.2 177.5 266.3#
56 62.1 43.6 65.4



#27
Carbon Disulfide
Concen: 0.347 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 76 Resp: 45655
Ion Ratio Lower Upper
76 100
44 43.4 14.6 22.0#
78 10.4 7.6 11.4

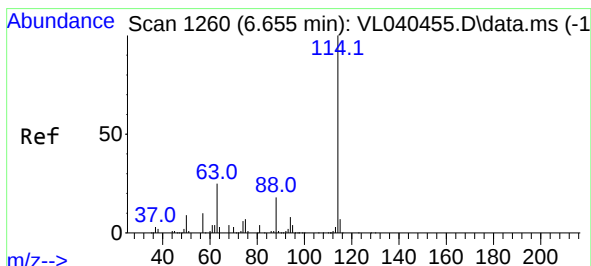
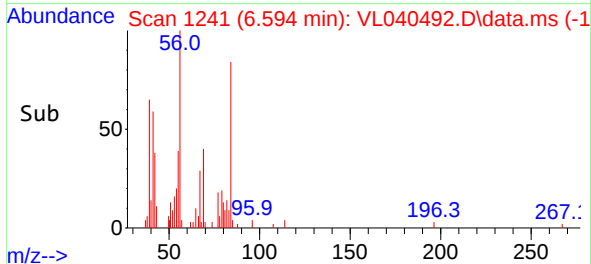
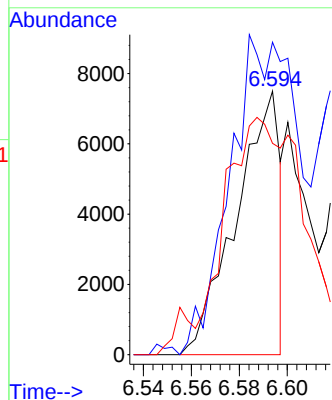
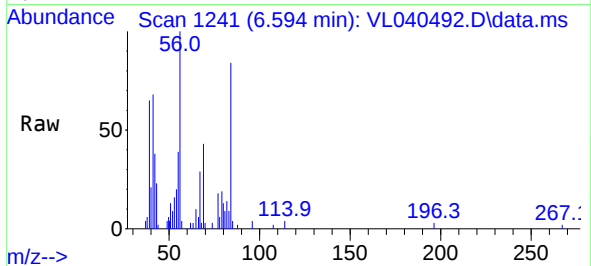




#30
Cyclohexane
Concen: 0.111 ppbv
RT: 6.594 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

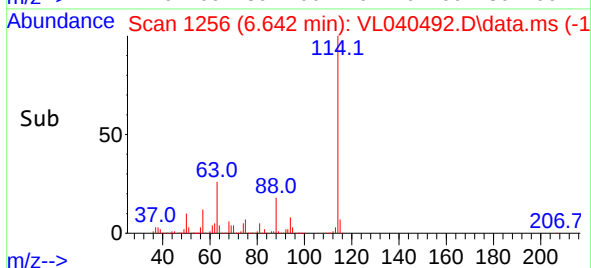
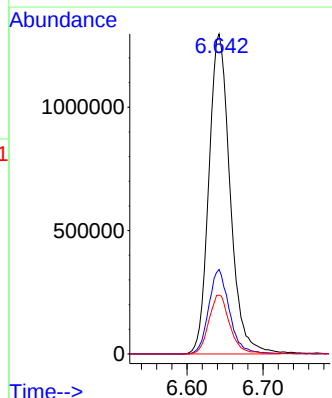
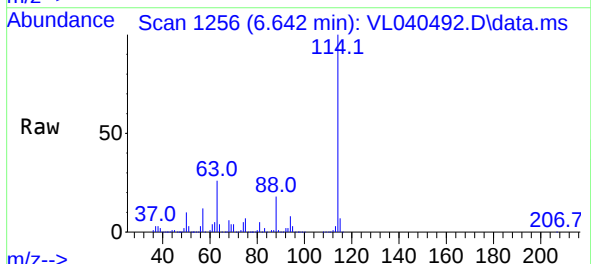
Instrument :
MSVOA_L
ClientSampleId :
SV-3

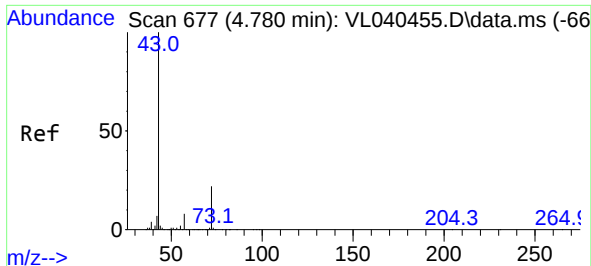
Tgt Ion: 84 Resp: 9457
Ion Ratio Lower Upper
84 100
56 202.3 106.0 159.0#
41 185.2 66.8 100.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.013 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 114 Resp: 2512305
Ion Ratio Lower Upper
114 100
63 26.0 21.0 31.6
88 18.3 14.5 21.7

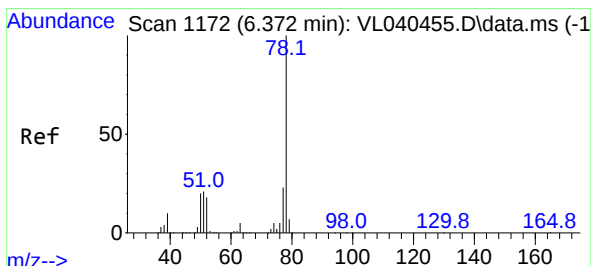
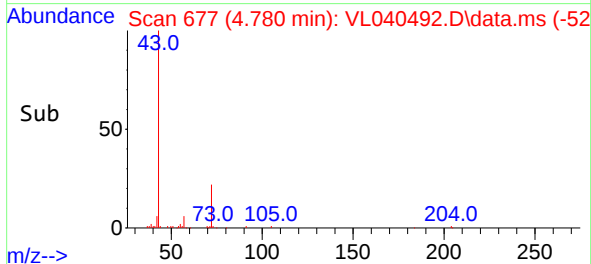
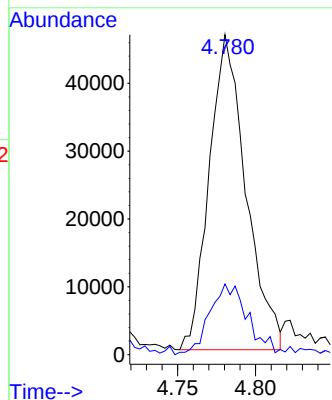
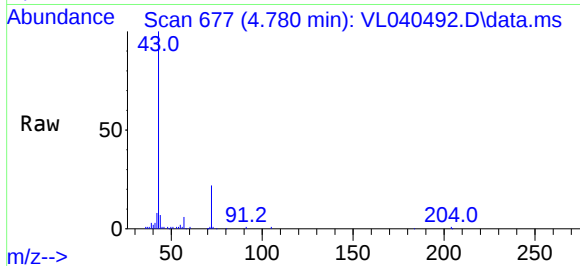




#34
2-Butanone
Concen: 0.629 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

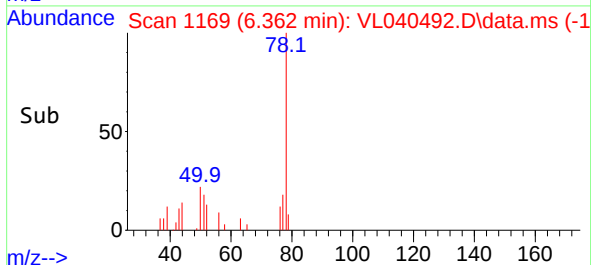
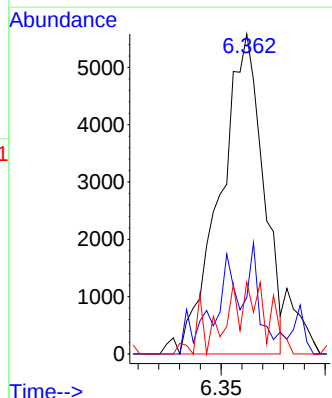
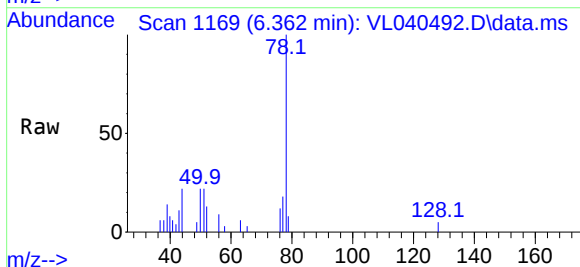
Instrument :
MSVOA_L
ClientSampleId :
SV-3

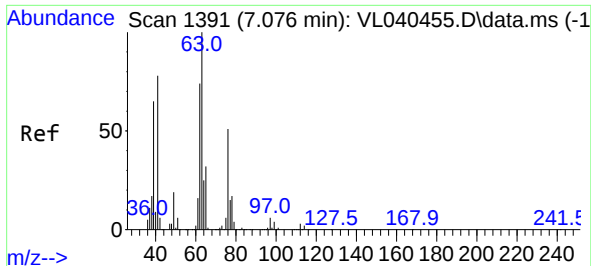
Tgt Ion: 43 Resp: 76159
Ion Ratio Lower Upper
43 100
72 25.5 18.1 27.1



#36
Benzene
Concen: 0.040 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.010 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 78 Resp: 7973
Ion Ratio Lower Upper
78 100
77 16.2 18.5 27.7#
50 17.6 16.1 24.1





#39

1,2-Dichloropropane

Concen: 8.336 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040492.D

Acq: 22 Jun 2023 19:25

Instrument :

MSVOA_L

ClientSampleId :

SV-3

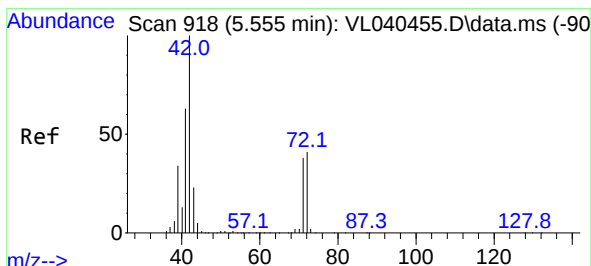
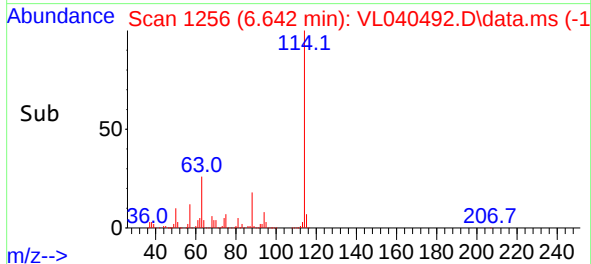
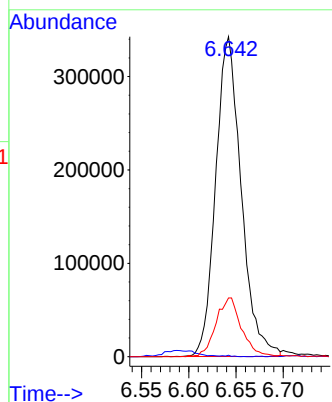
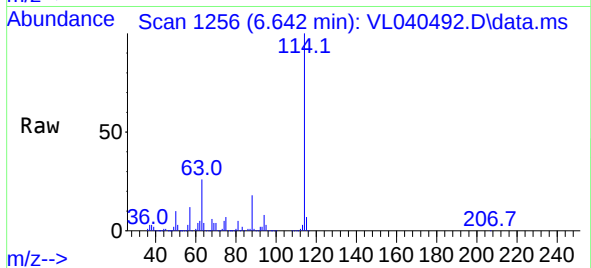
Tgt Ion: 63 Resp: 642146

Ion Ratio Lower Upper

63 100

41 0.4 62.2 93.2#

62 18.4 59.0 88.4#



#41

Tetrahydrofuran

Concen: 0.387 ppbv

RT: 5.558 min Scan# 919

Delta R.T. 0.003 min

Lab File: VL040492.D

Acq: 22 Jun 2023 19:25

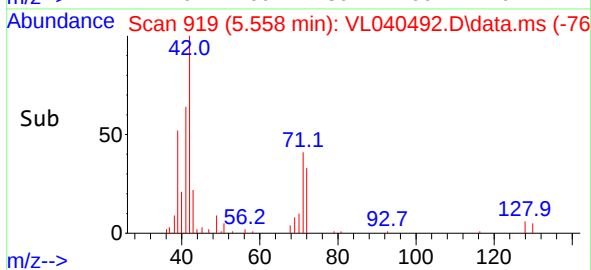
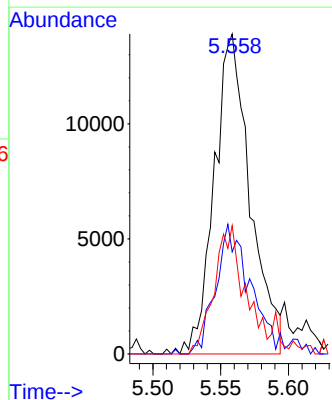
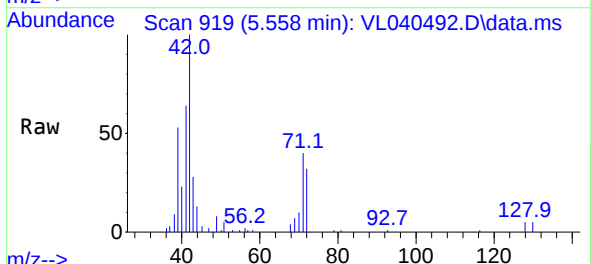
Tgt Ion: 42 Resp: 25632

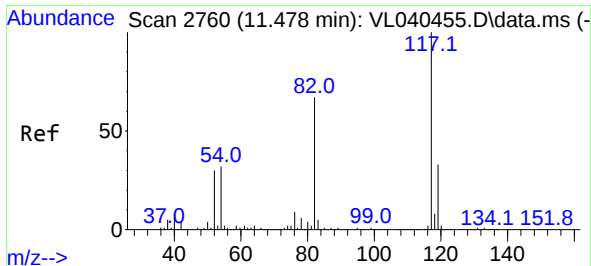
Ion Ratio Lower Upper

42 100

72 41.1 33.8 50.8

71 38.9 32.3 48.5

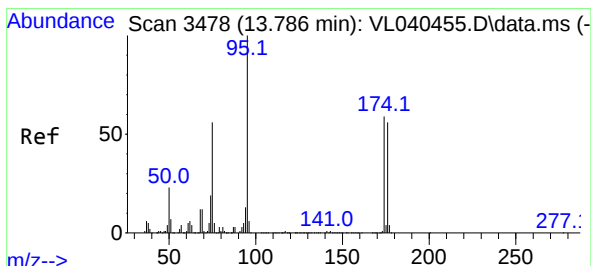
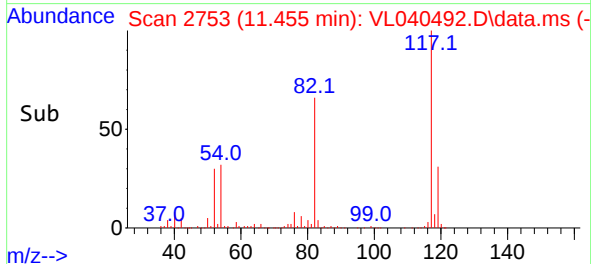
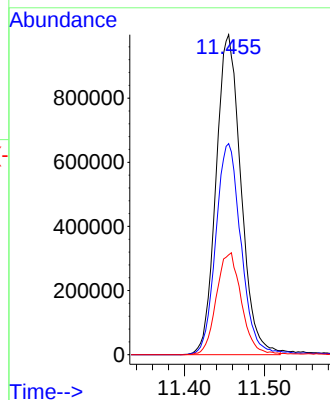
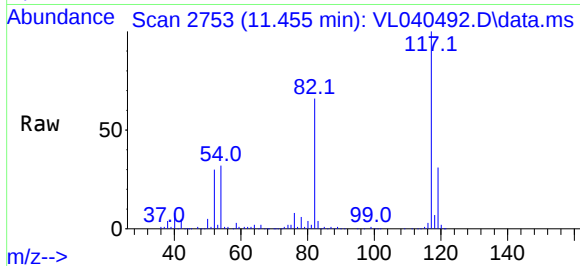




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Instrument :
MSVOA_L
ClientSampleId :
SV-3

Tgt Ion:117 Resp: 2158082
Ion Ratio Lower Upper
117 100
82 68.0 53.0 79.4
119 32.1 24.4 36.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.714 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.022 min
Lab File: VL040492.D
Acq: 22 Jun 2023 19:25

Tgt Ion: 95 Resp: 1730135
Ion Ratio Lower Upper
95 100
174 60.1 47.7 71.5
175 4.1 3.5 5.3

